



**Nebraska Public Power District**  
*Nebraska's Energy Leader*

NLS2002040  
March 28, 2002

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555-0001

Subject: Inservice Inspection Summary Report  
Cooper Nuclear Station, NRC Docket No. 50-298, DPR-46

References: (1) ASME Section XI, 1989 Edition, No Addenda  
(2) ASME Section XI, 1992 Edition, 1992 Addenda, Subsection IWE

The purpose of this submittal is to provide to the Nuclear Regulatory Commission the Inservice Inspection Summary Report for the Fall 2001 Refueling Outage at Cooper Nuclear Station. This report, submitted in accordance with the provisions of 10CFR50.55a and References 1 and 2, includes the Owner's Report for Inservice Inspections and the Owner's Report for Repairs and Replacements. Also included are the results of augmented examinations of the Reactor Pressure Vessel internal Core Spray piping performed in accordance with the Boiling Water Reactor Vessel Internals Project guidelines, BWRVIP-18 and the additional information required by 10CFR50.55a(b)(2)(ix)(D) for each flaw or area of degradation identified during the containment inspection which exceeded acceptance standards.

If you require any additional information regarding this report, please contact me at 402-825-2760 or David F. Kunsemiller, Risk and Regulatory Affairs Manager, at 402-825-5236.

Sincerely,

David L. Wilson  
Vice President - Nuclear

/dnm  
Attachment

A047

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cc: Regional Administrator  
USNRC-Region IV

Senior Project Manager  
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector  
USNRC

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Records

## ATTACHMENT 3 LIST OF REGULATORY COMMITMENTS

Correspondence Number: NLS2002040

The following table identifies those actions committed to by the District in this document. Any other actions discussed in the submittal represent intended or planned actions by the District. They are described for information only and are not regulatory commitments. Please notify the NL&S Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

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**COOPER NUCLEAR STATION  
ASME SECTION XI  
SUMMARY REPORT  
FALL 2001 REFUELING OUTAGE - RE20**

**ASME Section XI Summary Report  
Cooper Nuclear Station  
RE 20, Fall 2001**

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**2. NIS-2 Form and Summary Table**

**Commonly Used Abbreviations**

CB - Counter Bore	used in Table 1.1
FD - Fabrication Discontinuity	used in Table 1.1
IDG - Inside Surface Geometry	used in Table 1.1
INOP - Inoperable	used in Table 1.5
NGI - No Geometric Indication	used in Table 1.1
NRI - No Recordable Indication	used in Table 1.1 and Table 1.3 (UT exams)
NRI - None Relevant Indication	used in Table 1.3 (IVVI VT exams)
ODG - Outside Surface Geometry	used in Table 1.1
OP - Operable	used in Table 1.5
RG - Root Geometry	used in Table 1.1
RI - Recordable Indication	used in Table 1.1 and 1.3 (UT exams)
RI - Relevant Indication	used in Table 1.3 (IVVI VT exams)
SAT - Satisfactory	used in Table 1.5
SI - Spot Indication	used in Table 1.5

## As required by the Provisions of the ASME Code Rules

1. Owner: Nebraska Public Power District,
2. Plant: Cooper Nuclear Station, PO Box 98, Brownville, NE 68321
3. Plant Unit: One
4. Owner Certificate of Authorization (if required): N/A
5. Commercial Service Date: July, 1974
6. National Board Number for Unit: 20762
7. Components Inspected: See Attached Report Summary
8. Examination Dates: 05/30/2000 (End of Last Outage RE19 ) to 03/11/2002 (62 days following end of outage RE20)
9. Inspection Period Identification: (ISI) Second Period - 7/01/99 to 10/31/02, (IWE) First Period 9/09/96 to 9/08/2001
10. Inspection Interval Identification: Third Interval - 3/1/96 to 2/28/06
11. Applicable Edition of Section XI: (ISI) 1989 Edition, No Addenda. (IWE) 1992 Edition, 1992 Addenda
12. Date/Revision of Inspection Plan: (ISI) Revision 2, March 11, 2002, (IWE) Revision 0.1, March 8, 2000
13. Abstract of Examinations and Tests: See Attached Report Summary.
14. Abstract of Results of Examinations and Tests: See Attached Report Summary
15. Abstract of Corrective Measures: See Attached Report Summary

## CERTIFICATE OF COMPLIANCE

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. N/A Expiration Date N/A

Signed *Jerome A. Ranelli* Date 3/27/2002

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Nebraska and Employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut of Hartford Connecticut have inspected the components described in this Owner's Report during the period May 30, 2000 to March 11, 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

*K. S. Seltman* Commissions NB 11047 A, N, I, C, NS

Inspector's Signature

National Board, State, Province, and Endorsements

Date May 27 2002

NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B-A Category Components Examined Equal: 15										
B1.21	NB	HMC-BB-1	BHD-C 0° - 360°	4160194	Westinghouse	R-114	Zone 1 60°RL Zone 2 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E PDI-UT-6 / E	NRI NRI NRI	Axial Scans 44% Coverage From Bottom Side And 56% From Top Side. 100% Of Circumferential Scans Achieved. Notification 10128962 was written to document reduced coverage.
B1.22	NB	HMA-BB-1	BHD-M @ 39°	4160194	Westinghouse	R-100	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMA-BB-2	BHD-M @ 84°	4160194	Westinghouse	R-101	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMA-BB-3	BHD-M @ 129°	4160194	Westinghouse	R-102	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMA-BB-4	BHD-M @ 174°	4160194	Westinghouse	R-103	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMA-BB-5	BHD-M @ 219°	4160194	Westinghouse	R-104	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMA-BB-6	BHD-M @ 264°	4160194	Westinghouse	R-105	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMA-BB-7	BHD-M @ 309°	4160194	Westinghouse	R-106	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMA-BB-8	BHD-M @ 354°	4160194	Westinghouse	R-107	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-26. 100% ASME Code Coverage Achieved.
B1.22	NB	HMB-BB-1	BHD-M @ 5°	4160194	Westinghouse	R-108	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-06. Estimated Coverage: 100% Perpendicular Scans, 18% Of Parallel Scan Looking Up and 47% Of Parallel Scan Looking Down.
B1.22	NB	HMB-BB-2	BHD-M @ 65°	4160194	Westinghouse	R-109	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-06. Estimated Coverage : 100% Perpendicular Scans, 18% Of Parallel Scan Looking Up and 47% Of Parallel Scan Looking Down.

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National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B1.22	NB	HMB-BB-3	BHD-M @ 125°	4160194	Westinghouse	R-110	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-06. Estimated Coverage : 100% Perpendicular Scans, 18% Of Parallel Scan Looking Up and 47% Of Parallel Scan Looking Down.
B1.22	NB	HMB-BB-4	BHD-M @ 185°	4160194	Westinghouse	R-111	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-06. Estimated Coverage: 100% Perpendicular Scans, 18% Of Parallel Scan Looking Up and 47% Of Parallel Scan Looking Down.
B1.22	NB	HMB-BB-5	BHD-M @ 245°	4160194	Westinghouse	R-112	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-06. Estimated Coverage: 100% Perpendicular Scans, 18% Of Parallel Scan Looking Up and 47% Of Parallel Scan Looking Down.
B1.22	NB	HMB-BB-6	BHD-M @ 305°	4160194	Westinghouse	R-113	Zone 1 60°RL Zone 2 60°RL	PDI-UT-6 / E PDI-UT-6 / E	NRI NRI	Reference Relief Request: RI-06. Estimated Coverage: 100% Perpendicular Scans, 18% Of Parallel Scan Looking Up and 47% Of Parallel Scan Looking Down.



NIS-1, Table 1.1, RE20: ISI Examinations

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Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B-G-1 Category Components Examined Equal: 7										
B6.10	NB	PRB-BG1-19 Thru 36	RPV NUT's	4160193	Westinghouse	R-121	VT-1	CSP-ISI-8 / 0	RI	Examined RPV Nuts PRB-BG1-19 thru PRB-BG1-36. Reference Relief Request: RI-16. Notification 10123836 was written to document the condition and evaluate for re-use. Indications appear to be caused by tooling used to remove and install the nuts. Indications are SAT.
B6.180	RR	RRP-1A-BG1 1 thru 16	PUMP STUDS	4160205	Westinghouse	R-160	UT-0°	CSP-PDI-UT-5 / 0	NRI	Examined RR-A Pump Studs RRP-1A-BG-1 thru RRP-1A-BG-16.
B6.20	NB	PRA-BG1-1 Thru 52	RPV STUD's	4160191	Westinghouse	R-120	UT-0°	CSP-PDI-UT-5 / 0	NRI	Examined RPV Studs PRA-BG1-1 thru PRA-BG1-52.
B6.200	RR	RRPN-1A-BG1 1 thru 16	NUT	4160205	Westinghouse	R-162	VT-1	CSP-ISI-8 / 0	NRI	Examined RR-A Pump Nuts RRPN-1A-BG1-1 thru RRPN-1A-BG1-16.
B6.200	RR	RRPW-1A-BG1 1 thru 16	WASHER	4160205	Westinghouse	R-163	VT-1	CSP-ISI-8 / 0	NRI	Examined RR-A Pump Washers RRPW-1A-BG1-1 thru RRPW-1A-BG1-16.
B6.30	NB	PRA-BG1-38 Thru 41	RPV STUD'S	4160192	Westinghouse	R-170	MT UT-0°	CSP-ISI-70 / 2 CSP-PDI-UT-5 / 0	NRI NRI	Examined RPV Studs PRA-BG1-38 thru PRA-BG1-41. These studs were temporarily removed during vessel dissassembly.
B6.50	NB	PRC-BG1-19 Thru 36	WASHER's	4160193	Westinghouse	R-122	VT-1	CSP-ISI-8 / 0	NRI	Examined RPV Washers PRC-BG1-19 thru PRC-BG1-36.

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B-G-2 Category Components Examined Equal: 14										
B7.70	CS	CS-CV-19CV	Valve - Bolting	4160210	Westinghouse	R-086	VT-1	CSP-ISI-8 / 0	NRI	Examined Bolts and Nuts in place and under tension.
B7.70	HPCI	HPCI-CV-29CV	Valve - Bolting	4160197	Westinghouse	R-092	VT-1	CSP-ISI-8 / 0	NRI	Examined Bolts and Nuts in place and under tension.
B7.80	CRD	CRD-BG2-02-27	CRD-Bolting	4159884	NPPD	4159884	VT-1	3.28.1.1 Rev.2	RI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order. Surface corrosion was detected, however, within Code allowable limits. Exam SAT. Condition was documented on Notifcation 10132330.
B7.80	CRD	CRD-BG2-06-23	CRD-Bolting	4189197	NPPD	4189197	VT-1	3.28.1.1 Rev.2	NRI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order.
B7.80	CRD	CRD-BG2-14-47	CRD-Bolting	4189306	NPPD	4189306	VT-1	3.28.1.1 Rev.2	RI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order. Surface corrosion was detected, however, within Code allowable limits. Exam SAT. Condition was documented on Notifcation 10132330.
B7.80	CRD	CRD-BG2-18-31	CRD-Bolting	4189309	NPPD	4189309	VT-1	3.28.1.1 Rev.2	NRI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order.
B7.80	CRD	CRD-BG2-22-03	CRD-Bolting	4189312	NPPD	4189312	VT-1	3.28.1.1 Rev.2	RI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order. Surface corrosion was detected, however, within Code allowable limits. Exam SAT. Condition was documented on Notifcation 10135680.
B7.80	CRD	CRD-BG2-26-07	CRD-Bolting	4189317	NPPD	4189317	VT-1	3.28.1.1 Rev.2	RI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order. Surface corrosion was detected, however, within Code allowable limits. Exam SAT. Condition was documented on Notifcation 10132330.
B7.80	CRD	CRD-BG2-26-27	CRD-Bolting	4189302	NPPD	4189302	VT-1	3.28.1.1 Rev.2	NRI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order.

NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B7.80	CRD	CRD-BG2-26-51	CRD-Bolting	4189342	NPPD	4189342	VT-1	3.28.1.1 Rev.2	RI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order. Surface corrosion was detected, however, within Code allowable limits. Exam SAT. Condition was documented on Notifcation 10132330.
B7.80	CRD	CRD-BG2-30-39	CRD-Bolting	4189345	NPPD	4189345	VT-1	3.28.1.1 Rev.2	RI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order. Surface corrosion was detected, however, within Code allowable limits. Exam SAT. Condition was documented on Notifcation 10132330.
B7.80	CRD	CRD-BG2-34-51	CRD-Bolting	4189347	NPPD	4189347	VT-1	3.28.1.1 Rev.2	NRI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order.
B7.80	CRD	CRD-BG2-38-19	CRD-Bolting	4189349	NPPD	4189349	VT-1	3.28.1.1 Rev.2	NRI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order.
B7.80	CRD	CRD-BG2-50-23	CRD-Bolting	4189356	NPPD	4189356	VT-1	3.28.1.1 Rev.2	NRI	Bolting Examined when CRD was Disassembled. Inspection results documented in referenced CNS Work Order.

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Commerical Service Date: July, 1974  
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National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B-J Category Components Examined Equal: 8										
B9.11	CS	CSB-BJ-18	Valve - Pipe	4160210	Westinghouse	R-087	MT UT-45°S UT-60°S	CSP-ISI-70 / 2 PDI-UT-1 / C PDI-UT-1 / C	NRI CB CB	Examination was performed from the downstream pipe side only due to valve to pipe configuration, however 100% ASME code coverage was achieved.
B9.11	CS	CSB-BJ-26	Pipe - Flued Head	4160212	Westinghouse	R-088	MT UT-45°S UT-60°S	CSP-ISI-70 / 2 PDI-UT-1 / C PDI-UT-1 / C	NRI RG RG	Examination was performed from the downstream pipe side only due to valve to pipe configuration, however 100% ASME code coverage was achieved.
B9.11	RF	FWD-BJ-18*	Tee - Reducer	4160211	Westinghouse	R-135	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI NRI	100% ASME code coverage was achieved.
B9.11	RF	FWD-BJ-23*	Elbow - Pipe	4160211	Westinghouse	R-136	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI NRI	100% ASME code coverage was achieved.
B9.11	MS	MSB-BJ-42	Flued Head - Pipe	4160198	Westinghouse	R-093	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI NRI	100% ASME code coverage was achieved.
B9.21	MSDR	MSDR-BJ-4	Flued Head - Pipe	4160198	Westinghouse	R-099	MT	CSP-ISI-70 / 2	NRI	100% ASME code coverage was achieved.
B9.40	CS	CSB-BJ-32	Valve - Pipe	4160210	Westinghouse	R-089	MT	CSP-ISI-70 / 2	NRI	100% ASME code coverage was achieved.
B9.40	CS	CSB-BJ-35	Valve - Pipe	4160210	Westinghouse	R-090	MT	CSP-ISI-70 / 2	NRI	100% ASME code coverage was achieved.

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NIS-1, Table 1.1, RE20: ISI Examinations

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B-K Category Components Examined Equal: 2										
B10.10	NB	HNC-BH-C1	Vessel - Skirt 0° - 360°	4160194	Westinghouse	R-115	MT	CSP-ISI-70 / 2	NRI	Reference Relief Request No.: RI-07. Examined In Accordance With Code Case N-509. Estimated ASME Code Required Volume From 60° = 74.5%. This Component Was Previously Examined Under Component Numbers HNC-C1-1, HNC-C1-2 and HNC-C1-3.
							UT-0°	CSP-ISI-210 / 1	NRI	
							UT-45°S	CSP-ISI-210 / 1	NRI	
							UT-60°S	CSP-ISI-210 / 1	NRI	
B10.20	RF	FWC-BK1-8	8 Welded Lugs	4160211	Westinghouse	R-134	MT	CSP-ISI-70 / 2	NRI	Examined In Accordance With Code Case N-509. 85.19% Estimated Code Coverage Achieved. Notification 10126153 was written to document the less than 90% coverage.

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B-M-2 Category Components Examined Equal: 3										
B12.50	CS	CS-MO-12A-BM2	Valve-Body	4159957	NPPD	4159957	VT-3	3.28.1.3 Rev.4	NRI	Inspection results documented in referenced CNS Work Order.
B12.50	HPCI	HPCI-MO-15-BM2	Valve-Body	4211015	NPPD	4211015	VT-3	3.28.1.3 Rev.4	NRI	Inspection results documented in referenced CNS Work Order.
B12.50	RF	RF-16-CV-BM2	Valve-Body	4209932	NPPD	4209932	VT-3	3.28.1.3 Rev.4	NRI	Inspection results documented in referenced CNS Work Order.

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B-O Category Components Examined Equal: 2										
B14.10	CRD	CRD-50-23-1	CRD Housing - Fange	4160206	Westinghouse	R-084	PT	CSP-ISI-11 / 3	NRI	Reference Relief Request RI-15. 100% ASME code coverage was achieved.
B14.10	CRD	CRD-50-27-1	CRD Housing - Fange	4160206	Westinghouse	R-085	PT	CSP-ISI-11 / 3	NRI	Reference Relief Request RI-15. 100% ASME code coverage was achieved.

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B-P Category Components Examined Equal: 5										
B15.10	NB	6.MISC.502	Pressure Vessels	6.MISC.50	NPPD	6.MISC.502	VT-2	6.MISC.502 Rev.10C1	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
B15.50	NB	6.MISC.502.PIP	Pressure Retaining Piping	6.MISC.50	NPPD	6.MISC.502	VT-2	6.MISC.502 Rev.10C1	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
B15.50	NBI	VS.HD.FLGSEL.LEK.DETEC	RPV-Pipe	4184927	NPPD	PM 10606	VT-2	7.0.8.1 Rev.12	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections. Reference PM 10606.
B15.60	NB	6.MISC.502.PMP	Pumps	6.MISC.50	NPPD	6.MISC.502	VT-2	6.MISC.502 Rev.10C1	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
B15.70	NB	6.MISC.502.VAL	Valves	6.MISC.50	NPPD	6.MISC.502	VT-2	6.MISC.502 Rev.10C1	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.



NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
C-A Category Components Examined Equal: 2										
C1.10	RHR	RHR-CA-2A	SH-DRET	4160200	Westinghouse	R-153	UT-45°S UT-45°S	CSP-ISI-209 / 0 CSP-ISI-209 / 0	NRI NRI	These examinations were limited on the shell side due to welded attachment, however 92.25% code coverage of the exam volume was achieved. Reference Code Case N-460.
C1.10	RHR	RHR-CA-4A	DRET-DR	4160200	Westinghouse	R-154	UT-45°S UT-45°S	CSP-ISI-209 / 0 CSP-ISI-209 / 0	NRI NRI	This examination was limited on the downstream side of the weld due to N4 nozzle, however 92% code coverage was achieved. Reference Code Case N-460.

NIS-1, Table 1.1, RE20: ISI Examinations

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
C-B Category Components Examined Equal: 2										
C2.21	RHR	RHR-CB-1A	THD-NOZ	4160201	Westinghouse	R-155	MT	CSP-ISI-70 / 2	NRI	A limited examination was performed on the upstream side of weld due to head to nozzle configuration, however 90.3% code coverage was achieved.
							UT-45°S	CSP-ISI-209 / 0	NRI	
							UT-60°S	CSP-ISI-209 / 0	NRI	
C2.22	RHR	RHR-IR-1A	THD-NIR	4160201	Westinghouse	R-157	UT-70°S	CSP-ISI-211 / 0C1	NRI	
							UT-80°S	CSP-ISI-211 / 0C1	NRI	

NIS-1, Table 1.1, RE20: ISI Examinations

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Commerical Service Date: July, 1974  
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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
C-C Category Components Examined Equal: 5										
C3.10	RHR	RHR-CC-2A	SP-VES	4160200	Westinghouse	R-156	MT	CSP-ISI-70 / 2	NRI	Examined In Accordance With Code Case N-509.
C3.20	PNC	PNC-CE1-5	Welded Attachment	4160216	Westinghouse	R-124	MT	CSP-ISI-70 / 2	NRI	Examined In Accordance With Code Case N-509.
C3.20	MS	RSA-CC-25	Welded Lugs	4160218	Westinghouse	R-098	MT	CSP-ISI-70 / 2	NRI	Examined In Accordance With Code Case N-509. 85.48% Estimated ASME Code Coverage Achieved. Notification 10126100 was written to address the less than 90% coverage.
C3.20	RCIC	RWA-CC-52A	Welded Attachment	4160219	Westinghouse	R-132	MT	CSP-ISI-70 / 2	NRI	Examined In Accordance With Code Case N-509.
C3.30	RHR	RPA-CC-9	Integrally Welded Attachment	4160202	Westinghouse	R-158	MT	CSP-ISI-70 / 2	NRI	Examined In Accordance With Code Case N-509.

NIS-1, Table 1.1, RE20: ISI Examinations

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Commerical Service Date: July, 1974  
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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
C-F-2 Category Components Examined Equal: 11										
C5.51	CS-A	CSA-CF-42	ELBOW - PIPE	4160053	Westinghouse	R-071	MT UT-0° UT-45°S UT-60°S	CSP-ISI-70 / 1C1 CSP-ISI-209 / 0 PDI-UT-1 / C PDI-UT-1 / C	NRI NRI NRI NRI	100% ASME Code coverage was achieved.
C5.51	CS-A	CSA-CF-53	PIPE - ELBOW	4160053	Westinghouse	R-072	MT UT-0° UT-45°S UT-60°S	CSP-ISI-70 / 1C1 CSP-ISI-209 / 0 PDI-UT-1 / C PDI-UT-1 / C	NRI NRI NRI NRI	100% ASME Code Coverage Was Achieved. This is a Base-Line exam on this component.
C5.51	PNC	PNC-CG-10	Elbow - Flange	4160216	Westinghouse	R-125	MT UT-0° UT-45°S UT-70°S	CSP-ISI-70 / 2 CSP-ISI-209 / 0 PDI-UT-1 / C PDI-UT-1 / C	NRI NRI NRI ID RG	Code Case N-460, 90.9% ASME Code Coverage Was Achieved.
C5.51	MS	PSA-CF-9	Pipe - Elbow	4160218	Westinghouse	R-097	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI IDG	100% ASME Code coverage was achieved.
C5.51	RHR	RAS-CF-10	Reducer - Reducer	4160201	Westinghouse	R-138	MT UT-0° UT-45°S	CSP-ISI-70 / 2 CSP-ISI-209 / 0 PDI-UT-1 / C	NRI NRI NRI	100% ASME Code coverage was achieved.
C5.51	RHR	RAS-CF-4	Pipe - Elbow	4160201	Westinghouse	R-139	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI ID RG	100% ASME Code coverage was achieved. One recordable indication was detected and determined to be ID root geometry.
C5.51	RHR	RAW-CF-25	Pipe - Elbow	4160204	Westinghouse	R-140	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI NRI	100% ASME Code coverage was achieved.
C5.51	RHR	RBW-CF-18	Pipe - Tee	4160204	Westinghouse	R-141	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI NRI	100% ASME Code coverage was achieved.
C5.51	RHR	RCT-CF-9	Elbow - Pipe	4160203	Westinghouse	R-142	PT UT-45°S UT-70°S	CSP-ISI-11 / 3 PDI-UT-1 / C PDI-UT-1 / C	NRI NRI NRI	100% ASME Code coverage was achieved.
C5.51	RHR	RHA-CF-2	Pipe - Elbow	4160204	Westinghouse	R-143	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI NRI	100% ASME Code coverage was achieved.
C5.51	RHR	RHB-CF-2	Elbow - Pipe	4160201	Westinghouse	R-144	MT UT-45°S	CSP-ISI-70 / 2 PDI-UT-1 / C	NRI NRI	100% ASME Code coverage was achieved.

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Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
C-H Category Components Examined Equal: 24										
C7.10	RHR	6.1RHR.501	Pressure Vessels	6.1RHR.5	NPPD	6.1RHR.501	VT-2	6.1RHR.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.10	CRD	6.MISC.502.CRD	Pressure Vessels	6.MISC.50	NPPD	6.MISC.502	VT-2	6.MISC.502 Rev.10C1	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.10	REC	6.REC.501	Pressure Vessels	6.REC.501	NPPD	6.REC.501	VT-2	6.REC.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	CS	6.1CS.501	Piping	6.1CS.501	NPPD	6.1CS.501	VT-2	6.1CS.501 Rev.5	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	RHR	6.1RHR.501.PIP	Piping	6.1RHR.5	NPPD	6.1RHR.501	VT-2	6.1RHR.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	CS	6.2CS.501	Piping	6.2CS.501	NPPD	6.2CS.501	VT-2	6.2CS.501 Rev.4	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	HPCI	6.HPCI.502	Piping	6.HPCI.50	NPPD	6.HPCI.502	VT-2	6.HPCI.502 Rev.0	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	CRD	6.MISC.502.CRD.PIP	Piping	6.MISC.50	NPPD	6.MISC.502	VT-2	6.MISC.502 Rev.10C1	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	RCIC	6.RCIC.501	Piping	6.RCIC.50	NPPD	6.RCIC.501	VT-2	6.RCIC.501 Rev.5	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	RCIC	6.RCIC.502	Piping	6.RCIC.50	NPPD	6.RCIC.502	VT-2	6.RCIC.502 Rev.0	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.30	REC	6.REC.501.PIP	Piping	6.REC.501	NPPD	6.REC.501	VT-2	6.REC.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.

NIS-1, Table 1.1, RE20: ISI Examinations

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Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
C7.50	CS	6.1CS.501.PMP	Pump	6.1CS.501	NPPD	6.1CS.501	VT-2	6.1CS.501 Rev.5	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.50	RHR	6.1RHR.501.PMP	Pumps	6.1RHR.5	NPPD	6.1RHR.501	VT-2	6.1RHR.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.50	CS	6.2CS.501.PMP	Pump	6.2CS.501	NPPD	6.2CS.501	VT-2	6.2CS.501 Rev.4	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.50	RCIC	6.RCIC.501.PMP	Pumps	6.RCIC.50	NPPD	6.RCIC.501	VT-2	6.RCIC.501 Rev.5	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.50	REC	6.REC.501.PMP	Pumps	6.REC.501	NPPD	6.REC.501	VT-2	6.REC.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.70	CS	6.1CS.501.VAL	Valves	6.1CS.501	NPPD	6.1CS.501	VT-2	6.1CS.501 Rev.5	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.70	RHR	6.1RHR.501.VAL	Valves	6.1RHR.5	NPPD	6.1RHR.501	VT-2	6.1RHR.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.70	CS	6.2CS.501.VAL	Valves	6.2CS.501	NPPD	6.2CS.501	VT-2	6.2CS.501 Rev.4	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.70	HPCI	6.HPCI.502.VAL	Valves	6.HPCI.50	NPPD	6.HPCI.502	VT-2	6.HPCI.502 Rev.0	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.70	CRD	6.MISC.502.CRD.VAL	Viaves	6.MISC.50	NPPD	6.MISC.502	VT-2	6.MISC.502 Rev.10C1	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.70	RCIC	6.RCIC.501.VAL	Valves	6.RCIC.50	NPPD	6.RCIC.501	VT-2	6.RCIC.501 Rev.5	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
C7.70	RCIC	6.RCIC.502.VAL	Pumps	6.RCIC.50	NPPD	6.RCIC.502	VT-2	6.RCIC.502 Rev.0	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
C7.70	REC	6.REC.501.VAL	Valves	6.REC.501	NPPD	6.REC.501	VT-2	6.REC.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
D-A Category Components Examined Equal: 1										
D1.10	NBI	6.NBI.501	Pressure Retaining Component	6.NBI.501	NPPD	6.NBI.501	VT-2	6.NBI.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.



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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
D-B Category Components Examined Equal: 4										
D2.10	SW	6.1SW.501	Pressure Retaining Component	6.1SW.50	NPPD	R-226	VT-2	6.1SW.501 Rev.8	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
D2.10	SW	6.2SW.502	Pressure Retaining Component	6.2SW.50	NPPD	R-227	VT-2	6.2SW.502 Rev.7	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
D2.10	NBI	6.NBI.501.PRC	Pressure Retaining Component	6.NBI.501	NPPD	6.NBI.501	VT-2	6.NBI.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.
D2.10	REC	6.REC.501.PRC	Pressure Retaining Component	6.REC.501	NPPD	6.REC.501	VT-2	6.REC.501 Rev.6	SAT	Pressure testing performed in accordance to ASME Section XI, 1989 Edition, No Addenda and all applicable procedure sections.

NIS-1, Table 1.1, RE20: ISI Examinations

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
F-A Category Components Examined Equal: 22										
F1.10.A	RF	RFH-61	Sway Strut	4160211	Westinghouse	R-137	VT-3	CSP-ISI-8 / 0	RI	Examined In Accordance With Code Case N-491. Notification 10124859 was written to document the missing jam nut and Notification 10124860 was written to document stiffener plates that were not identified on the support drawing. Engineering evaluation determined both conditions to be SAT.
F1.10.C	RWCU	CU-H50	Constant Spring Trapeze	4160213	Westinghouse	R-164	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.A	PNC	PVH-108	Sway Strut	4160216	Westinghouse	R-126	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.A	PNC	PVH-109	Sway Strut	4160216	Westinghouse	R-127	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.A	PNC	PVH-110	Stanchion	4160216	Westinghouse	R-128	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.A	PNC	PVS-1B&R	Sway Strut	4160216	Westinghouse	R-129	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.A	PNC	PVS-2B&R	Sway Strut	4160216	Westinghouse	R-130	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.A	RHR	RHH-2	Stanchion	4160202	Westinghouse	R-146	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.A	RHR	RHH-52A	Sway Strut	4160203	Westinghouse	R-147	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.B	MS	MSH-99	Ridged Restraint	4160218	Westinghouse	R-096	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
F1.20.C	MS	MSH-106	Constant Spring Trapeze	4160218	Westinghouse	R-094	VT-3	CSP-ISI-8 / 0	RI	Examined In Accordance With Code Case N-491. The two recordable indications are considered SAT base Engineering Evaluation.  Notification 10127173 was written to document the condition. 11/24/01. TPM
F1.20.C	MS	MSH-121	Dual Spring Hanger	4160218	Westinghouse	R-095	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.C	RCIC	RCH-6	Variable Spring Hanger	4160219	Westinghouse	R-131	VT-3	CSP-ISI-8 / 0	RI	Examined In Accordance With Code Case N-491. The recordable condition is considered SAT based on Engineering Evaluation. Notification 10125143 was written to document condition.
F1.20.C	RHR	RHH-10	Variable Spring Hanger	4160204	Westinghouse	R-145	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.20.C	RHR	RHH-62	Variable Spring Hanger Trapez	4160203	Westinghouse	R-148	VT-3	CSP-ISI-8 / 0	RI	Examined In Accordance With Code Case N-491. Notification 10129110 was written to document a missing load scale on the north west spring can. Condition determined SAT based on Engineering evaluation.
F1.30.B	SW	SW-H-62A	Ridgid Hanger	4160217	Westinghouse	R-169	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.30.C	SW	SW-H-60	Variable Spring Hanger	4160217	Westinghouse	R-168	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.40.A	RHR	RHHX-1A1	PVV	4160200	Westinghouse	R-149	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.40.A	RHR	RHHX-1A2	PVV	4160200	Westinghouse	R-150	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.40.A	RHR	RHHX-1A3	PVV	4160200	Westinghouse	R-151	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.
F1.40.A	RHR	RHHX-1A4	PVV	4160200	Westinghouse	R-152	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Commments/Corrective Measures
F1.40.A	NB	RPV-SKIRT	Ridge Structual Fram	4160194	Westinghouse	R-123	VT-3	CSP-ISI-8 / 0	NRI	Examined In Accordance With Code Case N-491.

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Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
XMA-AUG Category Components Examined Equal: 3										
Augm	RR	RRPC-1A-BG1	Pump - Cover	4160205	Westinghouse	R-161	VT-1	CSP-ISI-8 / 0	NRI	This exam was performed for information only. Examined visible portions of RR-1A pump cover, pump was assembled, in conjunction with required Cat: B-G-1 RR-1A pump bolting, nuts, and washer examinations. Examination of pump cover / flange surface areas is only required when RR pump is disassembled.
Augm	RWCU	RWCU-13	Pipe - Elbow	4160214	Westinghouse	R-166	UT-45°S UT-70°S	PDI-UT-2 / C PDI-UT-2 / C	NRI IDG	
Augm	RWCU	RWCU-26	Pipe - Elbow	4160215	Westinghouse	R-167	UT-45°S	PDI-UT-2 / C	NRI	

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Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
XMA-REC Category Components Examined Equal: 72										
A11.12	REC-A	2848-14-W10	ELBOW - PIPE	4160048	Westinghouse	R-001	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12. Two (2) indications were detected and determined to be root geometry.
A11.12	REC-A	2848-14-W11	PIPE - TEE	4160048	Westinghouse	R-002	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	IDG RG	Examination performed per the Augmented ISI Program Section 11.12. Two (2) indications were detected with one to be root geometry and the other was determined to be a fabrication discontinuity.
A11.12	REC-A	2848-14-W12	TEE - PIPE	4160048	Westinghouse	R-003	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	RG RG	Examination performed per the Augmented ISI Program Section 11.12. One (1) recordable indication was detected and determined to be ID root geometry.
A11.12	REC-A	2848-14-W13	PIPE - CAP	4160048	Westinghouse	R-004	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-A	2848-14-W9	PIPE - ELBOW	4160048	Westinghouse	R-005	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-16-W31	PIPE - PIPE	4160051	Westinghouse	R-006	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-16-W36	PIPE - PIPE	4160051	Westinghouse	R-007	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-16-WP	PIPE - ELBOW	4160045	Westinghouse	R-008	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-B	2848-2-W34	PIPE - ELBOW	4160050	Westinghouse	R-009	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination was perforemd to meet the requirements of the Augmented ISI Program Section 11.12.
A11.12	REC-B	2848-2-W36	PIPE - TEE	4160050	Westinghouse	R-010	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12. Examined repair area per WO 4203836-35.

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NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
A11.12	REC-B	2848-2-W36	PIPE - TEE	4160050	Westinghouse	R-010	UT-45°S UT-70°S UT-60°RL	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1 CSP-ISI-299 / 0	NGI NGI NGI	Examination performed per the Augmented ISI Program Section 11.12. A non-geometric indication was detected. Notification 10118213 was written to identify the condition. The notification recommended the indication be repaired as good practice. Repair completed per WO 4203836 and re-examined. One geometric indication of the repair was determined to be root geometry.
A11.12	REC-B	2848-2-W37	TEE - PIPE	4160050	Westinghouse	R-011	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-B	2848-2-W37A	PIPE - PIPE	4160050	Westinghouse	R-012	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG, F	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-B	2848-2-W38	PIPE - FLANGE	4160050	Westinghouse	R-013	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-B	2848-2-W39	TEE - PIPE	4160050	Westinghouse	R-014	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-2-W51	Pipe - Tee	4159603	Westinghouse	R-171	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed following a repair during RE20. Original indication was found during RE19 and documented on Westinghouse Report No.R-047 as part of the ISI Augumented Program Section 11.12.
A11.12	REC-SCL	2848-2-W62	ELBOW - PIPE	4160047	Westinghouse	R-015	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-2-W69	REDUCER - TEE	4160047	Westinghouse	R-016	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-2-W70	REDUCER - TEE	4160047	Westinghouse	R-017	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-2-W72	ELBOW - PIPE	4160045	Westinghouse	R-018	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-B	2848-2-W81	REDUCER - FLANGE	4160050	Westinghouse	R-019	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.

NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
A11.12	REC-B	2848-2-WM	ELBOW - PIPE	4160050	Westinghouse	R-020	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-2-WO	VALVE - REDUCER	4160047	Westinghouse	R-021	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-2-WP	VAVLE - PIPE	4160047	Westinghouse	R-022	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-2-WR	ELBOW - VALVE	4160045	Westinghouse	R-023	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-2-WT	PIPE - ELBOW	4160047	Westinghouse	R-024	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-50-WF	TEE - PIPE	4160051	Westinghouse	R-025	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-50-WFG	PIPE - ELBOW	4160051	Westinghouse	R-026	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-50-WL	ELBOW - PIPE	4160052	Westinghouse	R-027	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-ENC	2848-51-WAL	PIPE - PIPE	4160043	Westinghouse	R-028	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI FD	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-ENC	2848-51-WCA	PIPE - WOL	4160043	Westinghouse	R-029	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-ENC	2848-51-WCB	WOL - FLANGE	4160043	Westinghouse	R-030	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-ENC	2848-51-WW	ELBOW - PIPE	4160043	Westinghouse	R-031	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.

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NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
A11.12	REC-ENC	2848-51-WX	PIPE - ELBOW	4160043	Westinghouse	R-032	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-ENC	2848-51-WZ	PIPE - ELBOW	4160043	Westinghouse	R-033	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG, F	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W1	PIPE - VALVE	4160049	Westinghouse	R-034	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W14	REDUCER - ELBOW	4160049	Westinghouse	R-035	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W16	ELBOW - PIPE	4160049	Westinghouse	R-036	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W17	PIPE - ELBOW	4160049	Westinghouse	R-037	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W18	ELBOW - PIPE	4160049	Westinghouse	R-038	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W19	PIPE - ELBOW	4160049	Westinghouse	R-039	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W2	ELBOW - PIPE	4160049	Westinghouse	R-040	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W20	ELBOW - PIPE	4160049	Westinghouse	R-041	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W3	PIPE - ELBOW	4160049	Westinghouse	R-042	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-55-W4	ELBOW - PIPE	4160049	Westinghouse	R-043	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.

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NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
A11.12	REC-SCL	2848-55-W5	PIPE - ELBOW	4160049	Westinghouse	R-044	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W1	REDUCER - ELBOW	4160044	Westinghouse	R-045	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG, F	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W14A	PIPE - REDUCER	4160044	Westinghouse	R-046	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W15	ELBOW - PIPE	4160044	Westinghouse	R-047	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG, F	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W16	PUP PIECE - ELBOW	4160044	Westinghouse	R-048	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W17	ELBOW - PUP PIECE	4160044	Westinghouse	R-049	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W18	PIPE - ELBOW	4160044	Westinghouse	R-050	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI FD	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W19	ELBOW - PIPE	4160044	Westinghouse	R-051	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W20	PIPE - ELBOW	4160044	Westinghouse	R-052	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG, F	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W3	ELBOW - PIPE	4160044	Westinghouse	R-053	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W34	PIPE - PIPE	4160044	Westinghouse	R-054	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-NCL	2848-57-W4	PIPE - ELBOW	4160044	Westinghouse	R-055	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12.

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NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
A11.12	REC-NCL	2848-57-W5	ELBOW - PIPE	4160044	Westinghouse	R-056	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI IDG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W0	PIPE - ELBOW	4160049	Westinghouse	R-057	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI SI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W3	PIPE - PIPE	4160052	Westinghouse	R-058	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W37	PIPE - PIPE	4160049	Westinghouse	R-059	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W38	PIPE - ELBOW	4160049	Westinghouse	R-060	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W41	ELBOW - PIPE	4160049	Westinghouse	R-061	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W75	PIPE - PIPE	4160049	Westinghouse	R-062	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W76	ELBOW - PIPE	4160049	Westinghouse	R-063	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W77	PIPE - ELBOW	4160049	Westinghouse	R-064	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W78	ELBOW - PIPE	4160049	Westinghouse	R-065	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W82	REDUCER - PIPE	4160049	Westinghouse	R-066	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	IDG NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-W83	VALVE - REDUCER	4160049	Westinghouse	R-067	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI RG	Examination performed per the Augmented ISI Program Section 11.12.

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NIS-1, Table 1.1, RE20: ISI Examinations

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Configuration	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
A11.12	REC-SCL	2848-9-W88	PIPE - PIPE	4160052	Westinghouse	R-068	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-WJ	ELBOW - PIPE	4160049	Westinghouse	R-069	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.
A11.12	REC-SCL	2848-9-WX	ELBOW - PIPE	4160052	Westinghouse	R-070	UT-45°S UT-70°S	CSP-ISI-208 / 0C1 CSP-ISI-208 / 0C1	NRI NRI	Examination performed per the Augmented ISI Program Section 11.12.

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NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E-C Category Components Examined Equal: 49						
E4.11	B1-DWN-ID-SS	Bay 1, Downcomer Submerged Section Interior Surface	CNS01-001	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas (approximately 18" from the bottom)), including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-1. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated cells with slight metal loss was noted primarily near the bottom of the downcomer. Some tiger striping with discoloration and beginning of pinpoint rusting was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B1-DWN-OD-SS	Bay 1, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-001	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-1. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to bracing was observed. Random pitting, mostly within the tiger stiping was observed. None of the pitting exceeded the threshold for recoating or further engineering evaluation. Some isolated corrosion cells with slight metal loss and discoloration over most of the downcomer was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC System: PC MWR No. 00-2410			Performed By: Underwater Construction Corperation			
E4.11	B1-INT-SS	Bay 1, Submerged Section Including Attachment Welds	CNS01-001	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit in the submerged section, including attachment welds, of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record no. 1-1. Isolated to random areas of pitting corrosion, ranging from pinpoint rusting to uniform corrosion was observed. None of the pits exceeded the examination screening criteria requiring further engineering evaluation. Small areas of mechanical damage, especially near the invert weld seam were observed. Areas of discoloration were observed throughout and near the ring girders. At the waterlines, some tiger striping with pinpoint rusting with uniform corrosion were observed. At the ring girder adjacent to each gusset plate on the web of the girder, isolated areas of uniform rusting with 100% coating loss was discovered. Discoloration, pinpoint rusting and uniform corrosion concentrated at the invert weld seam. Random areas of discoloration and pinpoint rusting, with isolated pitting were found on the balance of the general shell. Near the ring girder regions, tiger striping was more prevalent and advanced, as was the pinpoint and uniform corrosion. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B10-DWN-ID-SS	Bay 10, Downcomer Submerged Section Interior Surface	CNS01-010	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-10. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss were observed near the bottom of the downcomers. Some tiger striping with discoloration and the beginning of pinpoint rusting were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B10-DWN-OD-SS	Bay 10, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-010	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-10. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to the bracing were observed. Random pitting mostly within the tiger striping was observed. None of the pits exceeded the examination screening criteria requiring further engineering evaluation nor recoating. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B10-INT-SS	Bay 10, Submerged Section Including Attachment Welds	CNS01-010	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-10 and 3-10. These additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a) of ASME Section XI, 1992 Edition, 1992 Addenda. . Pitting was observed. However, none of the pits exceeded the examination screening criteria requiring further engineering evaluation. Pits exceeding the examination screening criteria for recoating were recoated. Areas of discoloration and tiger striping were observed throughout. Small areas of mechanical damage were observed. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			

NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B11-DWN-ID-SS	Bay 11, Downcomer Submerged Section Interior Surface	CNS01-011	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-11. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss were observed near the bottom of the downcomers. Some tiger striping with discoloration and the beginning of pinpoint rusting were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B11-DWN-OD-SS	Bay 11, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-011	VT-1	01634-3, Rev 1	VT-1 examinations were conducted on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-11. These examinations were not scheduled at this time, but were performed to provide information on surface conditions. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to the bracing were observed. Random pitting mostly within the tiger striping was observed. None of the pits exceeded the examination screening criteria requiring further engineering evaluation nor recoating. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B11-INT-SS	Bay 11, Submerged Section Including Attachment Welds	CNS01-011	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records number 1-11, 2-11, and 3-11. The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Therefore, no conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B12-DWN-ID-SS	Bay 12, Downcomer Submerged Section Interior Surface	CNS01-012	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-12. These examinations were not scheduled, but were performed to provide information on surface conditions. ome isolated corrosion cells with slight metal loss near the bottom of the downcomers were observed. Heavy tiger striping with pinpoint rusting and general corrosion were observed on the bottom 12" of the downcomer. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B12-DWN-OD-SS	Bay 12, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-012	VT-1	01634-3, Rev 1	VT-1 examinations were conducted on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-12. These examinations were not scheduled at this time, but were performed to provide information on surface conditions. Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B12-INT-SS	Bay 12, Submerged Section Including Attachment Welds	CNS01-012	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-12, 2-12, and 3-12. The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. No conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			

NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B13-DWN-ID-SS	Bay 13, Downcomer Submerged Section Interior Surface	CNS01-013	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-13. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated cells with slight metal loss was noted primarily near the bottom of the downcomer. Some tiger striping with discoloration and beginning of pinpoint rusting was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B13-DWN-OD-SS	Bay 13, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-013	VT-1	01634-3, Rev 1	VT-1 examinations were conducted on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-13. These examinations were not scheduled at this time, but were performed to provide information on surface conditions. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to bracing was observed. Random pitting, mostly within the tiger stiping was observed. None of the pitting exceeded the threshold for recoating or further engineering evaluation. Some isolated corrosion cells with slight metal loss and discoloration over most of the downcomer was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B13-INT-SS	Bay 13, Submerged Section Including Attachment Welds	CNS01-013	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-13. These additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a) of ASME Section XI, 1992 Edition, 1992 Addenda. Isolated to random areas of pitting corrosion, ranging from pinpoint rusting to uniform corrosion was observed. None of the pits exceeded the examination screening criteria requiring further engineering evaluation or coating. Small areas of mechanical damage, especially near the invert weld seam were observed. Areas of discoloration were observed throughout and near the ring girders. At the waterlines, some tiger striping with pinpoint rusting with uniform corrosion were observed. At the ring girder adjacent to each gusset plate on the web of the girder, isolated areas of uniform rusting with 100% coating loss was discovered. Discoloration, pinpoint rusting and uniform corrosion concentrated at the invert weld seam. Random areas of discoloration and pinpoint rusting, with isolated pitting were found on the balance of the general shell. Near the ring girder regions, tiger striping was more prevalent and advanced, as was the pinpoint and uniform corrosion. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B14-DWN-ID-SS	Bay 14, Downcomer Submerged Section Interior Surface	CNS01-014	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-14. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated cells with slight metal loss was noted primarily near the bottom of the downcomer. Some tiger striping with discoloration and beginning of pinpoint rusting was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B14-DWN-OD-SS	Bay 14, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-014	VT-1	01634-3, Rev 1	VT-1 examinations were conducted on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-14. These examinations were not scheduled at this time, but were performed to provide information on surface conditions. Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			

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NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B14-INT-SS	Bay 14, Submerged Section Including Attachment Welds	CNS01-014	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-14, 2-14, and 3-14. The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. No conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC	System: PC		Performed By: Underwater Construction Corporation			
MWR No.	00-2410					
E4.11	B15-DWN-ID-SS	Bay 15, Downcomer Submerged Section Interior Surface	CNS01-015	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-15. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated cells with slight metal loss was noted primarily near the bottom of the downcomer. Some tiger striping with discoloration and beginning of pinpoint rusting was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By: Underwater Construction Corporation			
MWR No.	00-2410					
E4.11	B15-DWN-OD-SS	Bay 15, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-015	VT-1	01634-3, Rev 1	VT-1 examinations were conducted on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-15. These examinations were not scheduled at this time, but were performed to provide information on surface conditions. Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By: Underwater Construction Corporation			
MWR No.	00-2410					
E4.11	B15-INT-SS	Bay 15, Submerged Section Including Attachment Welds	CNS01-015	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records number 1-15, 2-15, and 3-15. The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. No conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC	System: PC		Performed By: Underwater Construction Corporation			
MWR No.	00-2410					
E4.11	B16-DWN-ID-SS	Bay 16, Downcomer Submerged Section Interior Surface	CNS01-016	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-16. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated cells with slight metal loss was noted primarily near the bottom of the downcomer. Some tiger striping with discoloration and beginning of pinpoint rusting was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By: Underwater Construction Corporation			
MWR No.	00-2410					



NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B16-DWN-OD-SS	Bay 16, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-016	VT-1	01634-3, Rev 1	VT-1 examinations were conducted on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-16. These examinations were not scheduled at this time, but were performed to provide information on surface conditions. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to the bracing were observed. Random pitting mostly within the tiger striping was observed. None of the pits exceeded the examination screening criteria requiring further engineering evaluation nor recoating. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B16-INT-SS	Bay 16, Submerged Section Including Attachment Welds	CNS01-016	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-16 and 3-16. These additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a) of ASME Section XI, 1992 Edition, 1992 Addenda. Pitting was observed. However, none of the pits exceeded the examination screening criteria requiring further engineering evaluation. Pits exceeding the examination screening criteria for recoating were recoated. Areas of discoloration and tiger striping were observed throughout. Small areas of mechanical damage were observed. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B2-DWN-ID-SS	Bay 2, Downcomer Submerged Section Interior Surface	CNS01-002	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-2. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss were observed near the bottom of the downcomers. Some tiger striping with discoloration and the beginning of pinpoint rusting were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B2-DWN-OD-SS	Bay 2, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-002	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-2. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to the bracing were observed. Random pitting mostly within the tiger striping was observed. None of the pits exceeded the examination screening criteria requiring further engineering evaluation nor recoating. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B2-INT-SS	Bay 2, Submerged Section Including Attachment Welds	CNS01-002	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit in the submerged section, including attachment welds, of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Records numbered 1-2 and 3-2. Pitting was observed. However, none of the pits exceeded the examination screening criteria requiring further engineering evaluation. Pits exceeding the examination screening criteria for recoating were recoated. Areas of discoloration and tiger striping were observed throughout. Small areas of mechanical damage were observed. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B3-DWN-ID-SS	Bay 3, Downcomer Submerged Section Interior Surface	CNS01-003	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-3. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss near the bottom of the downcomers were observed. Heavy tiger striping with pinpoint rusting and general corrosion were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B3-DWN-OD-SS	Bay 3, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-003	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-3. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			

NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B3-INT-SS	Bay 3, Submerged Section Including Attachment Welds	CNS01-003	VT-1	01634-3, Rev 1	VT-1 examinations were performed for Code credit in the submerged section, including attachment welds, of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Pitting was observed, primarily around the piping penetrations. Reference UCC Records numbered 1-3, 2-3, and 3-3. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation, none of the pits exceeded the NEDC 92-213, Revision 2 design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Therefore, no conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. Additional examinations of the remaining bays were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). The remaining bays exhibited similar or lesser levels of degradation from pitting. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B4-DWN-ID-SS	Bay 4, Downcomer Submerged Section Interior Surface	CNS01-004	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-4. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss near the bottom of the downcomers were observed. Heavy tiger striping with pinpoint rusting and general corrosion were observed. Near 100% coating loss on bottom 12" of downcomer. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B4-DWN-OD-SS	Bay 4, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-004	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-4. Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B4-INT-SS	Bay 4, Submerged Section Including Attachment Welds	CNS01-004	VT-1	01634-3, Rev 1	VT-1 examinations were performed for Code credit in the submerged section, including attachment welds, of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Pitting was observed, primarily around the piping penetrations. Reference UCC Records numbered 1-4, 2-4, 3-4. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation, none of the pits exceeded the NEDC 92-213, Revision 2 design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Therefore, no conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Also areas of tiger striping with pinpoint rusting , uniform corrosion near the waterline, and random areas of discoloration were observed. Small areas of mechanical damage near the invert weld seam were observed. Additional examinations of the remaining bays were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). The remaining bays exhibited similar or lesser levels of degradation from pitting. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B5-DWN-ID-SS	Bay 5, Downcomer Submerged Section Interior Surface	CNS01-005	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-5. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated cells with slight metal loss was noted primarily near the bottom of the downcomer. Dense tiger striping over the bottom 12" of the downcomer with discoloration and near uniform pitting corrosion. None of the pitting was deep enough to require engineering evaluation or recoating. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC    System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			

NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B5-DWN-OD-SS	Bay 5, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-005	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-5. Tiger striping with uniform corrosion concentrated at the waterline and adjacent to bracing was observed. Random pitting, mostly within the tiger stiping was observed. None of the pitting exceeded the threshold for recoating or further engineering evaluation. Some isolated corrosion cells with slight metal loss and discoloration over most of the downcomer was observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corperation			
E4.11	B5-INT-SS	Bay 5, Submerged Section Including Attachment Welds	CNS01-005	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit in the submerged section, including attachment welds, of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Records numbered 1-5 and 3-5. Isolated to random areas of pitting corrosion, ranging from pinpoint rusting to uniform corrosion was observed. None of the pits exceeded the examination screening criteria requiring further engineering evaluation. Small areas of mechanical damage, especially near the invert weld seam were observed. Areas of discoloration were observed throughout and near the ring girders. At the waterlines, some tiger striping with pinpoint rusting with uniform corrosion were observed. At the ring girder adjacent to each gusset plate on the web of the girder, isolated areas of uniform rusting with 100% coating loss was discovered. Discoloration, pinpoint rusting and uniform corrosion concentrated at the invert weld seam. Random areas of discoloration and pinpoint rusting, with isolated pitting were found on the balance of the general shell. Near the ring girder regions, tiger striping was more prevalent and advanced, as was the pinpoint and uniform corrosion. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corperation			
E4.11	B6-DWN-ID-SS	Bay 6, Downcomer Submerged Section Interior Surface	CNS01-006	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-6. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss near the bottom of the downcomers were observed. Heavy tiger striping with pinpoint rusting and general corrosion were observed on the bottom 12" of the downcomer were observed with near 100% loss of coating. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corporation			
E4.11	B6-DWN-OD-SS	Bay 6, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-006	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-6. Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corporation			
E4.11	B6-INT-SS	Bay 6, Submerged Section Including Attachment Welds	CNS01-006	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-6, 2-6, 3-6 and 4-6 (for the new test area). The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. No conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corporation			
E4.11	B7-DWN-ID-SS	Bay 7, Downcomer Submerged Section Interior Surface	CNS01-007	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-7. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss near the bottom of the downcomers were observed. Heavy tiger striping with pinpoint rusting and general corrosion were observed on the bottom 12" of the downcomer. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corporation			

NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B7-DWN-OD-SS	Bay 7,Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-007	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-7. Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corperation			
E4.11	B7-INT-SS	Bay 7, Submerged Section Including Attachment Welds	CNS01-007	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-7, 2-7, and 3-7. The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. No conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B8-DWN-ID-SS	Bay 8, Downcomer Submerged Section Interior Surface	CNS01-008	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-8. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss near the bottom of the downcomers were observed. Heavy tiger striping with pinpoint rusting and general corrosion were observed on the bottom 12" of the downcomer. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B8-DWN-OD-SS	Bay 8, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-008	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-8. Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corperation			
E4.11	B8-INT-SS	Bay 8, Submerged Section Including Attachment Welds	CNS01-008	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-8, 2-8, and 3-8. The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pit depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. No conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			
E4.11	B9-DWN-ID-SS	Bay 9, Downcomer Submerged Section Interior Surface	CNS01-009	VT-1	01634-3, Rev 1	VT-1 examinations were performed on the accessible interior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance with ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record number 1-9. These examinations were not scheduled, but were performed to provide information on surface conditions. Some isolated corrosion cells with slight metal loss near the bottom of the downcomers were observed. Heavy tiger striping with pinpoint rusting and general corrosion were observed on the bottom 12" of the downcomer. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC      System: PC MWR No. 00-2410			Performed By: Underwater Construction Corporation			

NIS-1, Table 1.2, MCO-01-01: IWE Examinations during Mid-Cycle Outage

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98 Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number: 20762

Item No.	Component ID	Containment Section	Report No.	Exam	Procedure	Results / Corrective Measures
E4.11	B9-DWN-OD-SS	Bay 9, Downcomer Submerged Section Exterior Surface Including Attachment Welds	CNS01-009	VT-1	01634-3, Rev 1	VT-1 examinations were conducted for Code credit on the exterior surface areas, including attachment welds, of the downcomers in the submerged section of the referenced Torus Bay in accordance to ASME Section XI, 1992 Edition, 1992 Addenda. Reference UCC Record numbers 1-9 and 5-9 (for the test area). Tiger striping with uniform corrosion concentrated a the waterline and adjacent to bracing was observed. Random pitting was observed primarily within the tiger striping. Some isolated corrosion cells with slight metal loss were observed. These conditions are noted but represent little or no degradation to the base metal and therefore are acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corporation			
E4.11	B9-INT-SS	Bay 9, Submerged Section Including Attachment Welds	CNS01-009	VT-1	01634-3, Rev 1	Additional VT-1 examinations were conducted in the submerged section, including attachment welds, of the referenced Torus Bay as a result of indications discovered in Bays 1-5. Reference UCC Records numbered 1-9, 2-9, and 3-9. The additional examinations were performed in accordance with 10 CFR 50.55a Codes and Standards, (D) Section 50.55a(b)2(D) as an alternative to IWE-2430(a). Pitting was observed, primarily around the piping penetrations. PIR S/N 4-14626 documented this condition. Pits depths exceeding pre-established examination criteria were evaluated by DED Civil Engineering and were recoated. Based on the Engineering Evaluation and calculation NEDC 92-213, Revision 2, none of the pits exceeded the design code allowable for maximum pit depth. This is documented in NEDC 94-214, Revision 3, which also establishes the revised corrosion rate for the Torus shell. Some tiger striping and discoloration were noted throughout with pinpoint rusting and uniform corrosion near the waterline. No conditions were found which effect the structural integrity of the Torus beyond Code Allowable criteria under postulated accident conditions. Preservice VT-1 examinations were performed on the recoated areas and found to be acceptable.
Class: MC	System: PC		Performed By:			
MWR No.	00-2410		Underwater Construction Corporation			
E4.11	DW-SH-FLG-SS	Drywell Shell Flange, Lower Flange in Cavity	00-2887	VT-1	CNS 3.28.1.5 REV 1	Exam SAT.
Class: MC	System: PC		Performed By:			
MWR No.	00-2887		NPPD			









Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
B13.40	NB	OFSC-(22-39)	Four Lobed Orificed Fuel Support Casting Assembly	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 6 for inspection results.
AISI: BWRVIP:										
B13.40	NB	OFSC-(30-15)	Four Lobed Orificed Fuel Support Casting Assembly	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 6 for inspection results.
AISI: BWRVIP:										
B13.40	NB	OFSC-(34-15)	Four Lobed Orificed Fuel Support Casting Assembly	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 6 for inspection results.
AISI: BWRVIP:										
B13.40	NB	OFSC-(34-35)	Four Lobed Orificed Fuel Support Casting Assembly	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 6 for inspection results.
AISI: BWRVIP:										
B13.40	NB	OFSC-(38-23)	Four Lobed Orificed Fuel Support Casting Assembly	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 6 for inspection results.
AISI: BWRVIP:										
B13.40	NB	OFSC-(42-19)	Four Lobed Orificed Fuel Support Casting Assembly	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 6 for inspection results.
AISI: BWRVIP:										
B13.40	NB	Core Plate	Core Plate Assembly	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 10 for inspection results. Examination were performed in area of Fuel Cells removed at locations 22-23, 30-15, 22-39, 34-15, 14-31, 18-15, 38-23, 06-35, 14-23, 10-19, 10-35, 34-15, and 42-19.
AISI: BWRVIP: 25										
B13.40	NB	SHRD-SUPASEM@0>180	Core Shroud Support Assembly, Lower Cylinder and Support Plate, from the H7 Weld and H8 Weld areas to the H9 Weld area 0 to 180 degress azimuth	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 3 under each Jet Pump section for inspection results.
AISI: BWRVIP: 38										
B13.40	NB	SHRD-SUPASEM@180>360	Core Shroud Support Assembly, Lower Cylinder and Support Plate, from the H7 Weld and H8 Weld areas to the H9 Weld area 180 to 360 degree azimuth	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 3 under each Jet Pump section for inspection results.
AISI: BWRVIP: 38										

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
XMA-VIP18 Category Components Examined Equal: 61										
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-A-TJB@90-(P1)	Core Spray Piping Tee Junction Box at 90 degrees azimuth, Thermal Sleeve to Junction Box Weld (hidden)	4160145	Westinghouse	RE20 IVVI	NA	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NA	Weld is inaccessible, no examination performed.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A1@170-(P8b)	Core Spray Piping Downcomer "C" at 170 degrees azimuth, Collar to Shroud Weld	4160144	Westinghouse	EDS#-1	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	RI RI	Indication documented in notification 10127742. Accepted by Engineering Evaluation per NEDC 98-054. 360 degree coverage on upstream side only due to configuration. Visual exam performed per WO 4160145.
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-A10@90-(P3)	Core Spray Piping Tee Junction Box at 90 degrees azimuth, Horizontal Pipe to Junction Box Weld, from Downcomer "C"	4160144	Westinghouse	EDS#-9	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	RI NRI	Spot of lack of fusion at midwall detected by UT. Visual performed per WO 4160145 with approximately 65% coverage.
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-A11@90-(P2)	Core Spray Piping Tee Junction Box at 90 degrees azimuth, Cover Plate to Junction Box Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-A12@90-(P3)	Core Spray Piping Tee Junction Box at 90 degree azimuth, Horizontal Pipe to Junction Box Weld, to Downcomer "A"	4160144	Westinghouse	EDS#-10	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Performed UT scan from 268 through 0 to 10 degrees and 148 to 250 on the downstream side only due to the configuration. Visual exam performed under WO 4160145 with approximately 65% coverage.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A15@10-(P5)	Core Spray Piping, Sliding Sleeve to Upper Downcomer "A" at 10 degrees azimuth	4160144	Westinghouse	EDS#-11	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on both sides. Weld geometry seen.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A16@10-(P6)	Core Spray Piping, Sliding Sleeve Weld to Outer Sleeve, off Downcomer "A" at 10 degrees azimuth	4160144	Westinghouse	EDS#-12	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Performed UT scans of 360 degrees on both sides. Corner geometry seen. Visual exam performed per WO 4160145 with approximately 65% coverage.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A17@10-(P7)	Core Spray Piping, Outer Sleeve to Lower Downcomer "A" at 10 degrees azimuth	4160144	Westinghouse	EDS#-13	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Scanned 360 degrees on downstream side. Scanned 60 to 330 degrees on the upstream side due to configuration. Weld geometry seen. Visual exam performed per WO 4160145 with approximately 65% coverage.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A2@170-(P8a)	Core Spray Piping Downcomer "C" at 170 degrees azimuth, Collar to Shroud Pipe Weld	4160144	Westinghouse	EDS#-2	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on downstream side only due to configuration.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A20@10-(P8a)	Core Spray Piping Downcomer "A" at 10 degrees azimuth, Collar to Shroud Pipe Weld	4160144	Westinghouse	EDS#-14	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on downstream side only due to configuration. OD geometry seen.

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Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A21@10-(P8b)	Core Spray Piping Downcomer "A" at 10 degrees azimuth, Collar to Shroud Weld	4160144	Westinghouse	EDS#-15	UT-65S	CSP-ISI-100 Rev 5C1	RI	360 degree coverage on upstream side only due to configuration. This is a re-examination from the last several outages. Change in length is insignificant and within the accuracy of the equipment. Indication has been previously evaluated and accepted per Engineering evaluation documented in NEDC98-054. Weld geometry also observed.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A22@10-(P9)	Core Spray Shroud Pipe to Sparger Tee Box (hidden weld) Upper Sparger Downcomer "A" at 10 degrees azimuth	4160144	Westinghouse	EDS#-28	UT-45S	CSP-ISI-100 Rev 5C1	RI	Scanned 360 degrees on upstream side only due to configuration limitations. No recordable weld crown and associated geometry of weld seen intermittently. Recordabel indications which are similar to the flaws seen in the EPRI P9 sample blocks, but due to the complexity of this examination technique, flaw characterization is not feasible. Notification 10128653 was written to document indication. Per NEDC 98-054, Revision 4 this weld is not credited for structural integrity.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A23@170-(P9)	Core Spray Shroud Pipe to Sparger Tee Box (hidden weld) Upper Sparger Downcomer "C" at 170 degrees azimuth	4160144	Westinghouse	EDS#-29	UT-45S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on upstream side only due to configuration limitations. No recordable weld crown and associated geometry of weld seen intermittently.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A3@170-(P4d)	Core Spray Piping, Elbow to Shroud Pipe, off Downcomer "C" at 170 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Limited to approximately 95% coverage.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A4@170-(P4c)	Core Spray Piping, Lower Downcomer "C" to Elbow at 170 degrees azimuth	4160144	Westinghouse	EDS#-3	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on upstream side only due to configuration.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A5@170-(P7)	Core Spray Piping, Outer Sleeve to Lower Downcomer "C" at 170 degrees azimuth	4160144	Westinghouse	EDS#-4	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Scanned 360 degrees on both sides. Visual exam performed per WO 4160145. Visual exam limited to approximately 65% coverage.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A6@170-(P6)	Core Spray Piping, Sliding Sleeve Weld to Outer Sleeve, off Downcomer "C" at 170 degrees azimuth	4160144	Westinghouse	EDS#-5	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on both sides.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A7@170-(P5)	Core Spray Piping, Sliding Sleeve to Upper Downcomer "C" at 170 degrees azimuth	4160144	Westinghouse	EDS#-6	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on both sides. Weld geometry seen.

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
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Plant Unit: 1

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National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A8@170-(P4b)	Core Spray Piping, Elbow to Pipe Downcomer "C" at 170 degrees azimuth	4160144	Westinghouse	EDS#-7	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI RI	Performed a UT scan from 322 through 0 to 74 degrees and 142 to 254 on the downstream side only due to the configuration. Visual exam performed per WO 4160145 with coverage limited to 70%. Surface indication noted by visual exam however could not be substantiated by UT so exam considered SAT.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-A9@170-(P4a)	Core Spray Piping, Horizontal Pipe to Elbow, off Downcomer "C" at 170 degrees azimuth	4160144	Westinghouse	EDS#-8	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned from 345 through 0 to 224 degrees on the upstream side only due to the configuration.
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-B-TJB@270-(P1)	Core Spray Piping Tee Junction Box at 270 degrees azimuth, Thermal Sleeve to Junction Box Weld (hidden)	4160145	Westinghouse	RE20 IVVI	NA	IV-BWR-001 Rev:1	NA	Weld inaccessible for examination.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B1@350-(P8b)	Core Spray Piping Downcomer "B" at 350 degrees azimuth, Collar to Shroud Weld	4160144	Westinghouse	EDS#-16	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on the upstream side due to configuration limitations. Weld geometry seen.
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-B10@270-(P3)	Core Spray Piping Tee Junction Box at 270 degrees azimuth, Horizontal Pipe to Junction Box Weld, from Downcomer "B"	4160144	Westinghouse	EDS#-21	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Performed a UT scan from 350 to 94 degrees and 110 to 214 on the downstream side only due to the configuration. Visual exam performed per WO 4160145 with approximately 55% coverage.
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-B11@270-(P2)	Core Spray Piping Tee Junction Box at 270 degrees azimuth, Cover Plate to Junction Box Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.8 BWRVIP: 18	CS-B12@270-(P3)	Core Spray Piping Tee Junction Box at 270 degrees azimuth, Horizontal Pipe to Junction Box Weld, to Downcomer "D"	4160144	Westinghouse	EDS#-22	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Performed a UT scan from 264 through 0 to 10 degrees and 144 to 250 on the downstream side due to configuration limitations. Visual exam performed per WO 4160145 with approximately 55% coverage.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B15@190-(P5)	Core Spray Piping, Sliding Sleeve to Upper Downcomer "D" at 190 degrees azimuth	4160144	Westinghouse	EDS#-23	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on both sides. Weld geometry seen.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B16@190-(P6)	Core Spray Piping, Sliding Sleeve Weld to Outer Sleeve, off Downcomer "D" at 190 degrees azimuth	4160144	Westinghouse	EDS#-24	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on upstream side. Scanned 10 to 323 degrees on the downstream side due to configuration limitations. Corner geometry seen.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B17@190-(P7)	Core Spray Piping, Outer Sleeve to Lower Downcomer "D" at 190 degrees azimuth	4160144	Westinghouse	EDS#-25	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Performed a UT scan of 360 degrees on downstream side. Scanned 10 to 323 degrees on the upstream side due to configuration limitations. Weld geometry seen. Visual exam performed per WO 4160145 with approximately 65% coverage.

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National Board Number for Unit: 20762

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IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B2@350-(P8a)	Core Spray Piping Downcomer "B" at 350 degrees azimuth, Collar to Shroud Pipe Weld	4160144	Westinghouse	EDS#-17	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on downstream side due to configuration limitations. OD corner geometry seen.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B20@190-(P8a)	Core Spray Piping Downcomer "D" at 190 degrees azimuth, Collar to Shroud Weld	4160144	Westinghouse	EDS#-26	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	RI NRI	Indication documented in notification 10131163. Accepted by Engineering Evaluation per NEDC 98-054. 360 degree coverage on downstream side due to configuration. Visual exam performed per WO 4160145.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B21@190-(P8b)	Core Spray Piping Downcomer "D" at 190 degrees azimuth, Collar to Shroud Pipe Weld	4160144	Westinghouse	EDS#-27	UT-65S	CSP-ISI-100 Rev 5C1	NRI	360 degree coverage on upstream side only due to configuration limitations. Weld geometry seen.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B22@190-(P9)	Core Spray Shroud Pipe to Sparger Tee Box (hidden weld) Lower Sparger Downcomer "D" at 190 degrees azimuth	4160144	Westinghouse	EDS#-30	UT-45S	CSP-ISI-100 Rev 5C1	RI	Scanned 360 degrees on upstream side only due to configuration limitations. No recordable weld crown and associated geometry of weld seen intermittently. Recordabel indications which are similar to the flaws seen in the EPRI P9 sample blocks, but due to the complexity of this examination technique, flaw characterization is not feasible. Notification 10128653 was written to document indication. Per NEDC 98-054, Revision 4 this weld is not credited for structural integrity.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B23@350-(P9)	Core Spray Shroud Pipe to Sparger Tee Box (hidden weld) Lower Sparger Downcomer "B" at 350 degrees azimuth	4160144	Westinghouse	EDS#-31	UT-45S	CSP-ISI-100 Rev 5C1	RI	Scanned 360 degrees on upstream side only due to configuration limitations. No recordable weld crown and associated geometry of weld seen intermittently. Recordabel indications which are similar to the flaws seen in the EPRI P9 sample blocks, but due to the complexity of this examination technique, flaw characterization is not feasible. Notification 10128653 was written to document indication. Per NEDC 98-054, Revision 4 this weld is not credited for structural integrity.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B5@350-(P7)	Core Spray Piping, Outer Sleeve to Lower Downcomer "B" at 350 degrees azimuth	4160144	Westinghouse	EDS#-18	UT-65S EVT-1	CSP-ISI-100 Rev 5C1 IV-BWR-001 Rev:1	NRI NRI	Scanned from 20 to 315 degrees on the upstream side due to configuration limitations. Scanned 360 degrees on the downstream side. Weld geometry seen. Visual exam performed per WO 4160145 with approximately 65% coverage.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B6@350-(P6)	Core Spray Piping, Sliding Sleeve Weld to Outer Sleeve, off Downcomer "B" at 350 degrees azimuth	4160144	Westinghouse	EDS#-19	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned from 20 to 315 degrees on the downstream side due to configuration limitations. Scanned 360 degrees on the upstream side. Weld geometry seen.
IVI	NBCS AISI: 11.2 BWRVIP: 18	CS-B7@350-(P5)	Core Spray Piping, Sliding Sleeve to Upper Downcomer "B" at 350 degrees azimuth	4160144	Westinghouse	EDS#-20	UT-65S	CSP-ISI-100 Rev 5C1	NRI	Scanned 360 degrees on both sides. Weld geometry seen.

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IVI	NBCS AISI: 11.2 BWRVIP: 18	S-BL-XTRW@346	Core Spray Sparger "B" Lower, Sparger Pipe to Sparger Pipe, Extra Weld at 346 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3 Tab 2
IVI	NBCS AISI: 11.2 BWRVIP: 18	S-BL-XTRW@354	Core Spray Sparger "B" Lower, Sparger Pipe to Sparger Pipe, Extra Weld at 354 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3 Tab 2
IVI	NBCS AISI: 11.2 BWRVIP: 18	S1-AU-TB@10	Core Spray Sparger "A" Upper Tee Box at 10 degrees azimuth, Cover Plate to Sparger Tee Box Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S1-BL-TB@350	Core Spray Sparger "B" Lower Tee Box at 350 degrees azimuth, Cover Plate to Sparger Tee Box Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S1-CU-TB@170	Core Spray Sparger "C" Upper Tee Box at 170 degrees azimuth, Cover Plate to Sparger Tee Box Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S1-DL-TB@190	Core Spray Sparger "D" Lower Tee Box at 190 degrees azimuth, Cover Plate to Sparger Tee Box Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@12-AU-TB@10	Core Spray Sparger "A" Upper Tee Box at 10 degrees azimuth, Sparger Pipe to Tee Box Weld at 12 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@168-CU-TB@170	Core Spray Sparger "C" Upper Tee Box at 170 degrees azimuth, Sparger Pipe to Tee Box Weld at 168 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@172-CU-TB@170	Core Spray Sparger "C" Upper Tee Box at 170 degrees azimuth, Sparger Pipe to Tee Box Weld at 172 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@188-DL-TB@190	Core Spray Sparger "D" Lower Tee Box at 190 degrees azimuth, Sparger Pipe to Tee Box Weld at 188 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@192-DL-TB@190	Core Spray Sparger "D" Lower Tee Box at 190 degrees azimuth, Sparger Pipe to Tee Box Weld at 192 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@348-BL-TB@350	Core Spray Sparger "B" Lower Tee Box at 350 degrees azimuth, Sparger Pipe to Tee Box Weld at 348 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@352-BL-TB@350	Core Spray Sparger "B" Lower Tee Box at 350 degrees azimuth, Sparger Pipe to Tee Box Weld at 352 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S2@8-AU-TB@10	Core Spray Sparger "A" Upper Tee Box at 10 degrees azimuth, Sparger Pipe to Tee Box Weld at 8 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S3a-CU-NSPW@92>269	Core Spray Sparger "C" Upper, Nozzle to Sparger Pipe Welds, all spray nozzles from 92 to 269 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	RI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S3b-CU-NOW@92>269	Core Spray Sparger "C" Upper, Nozzle to Orifice Welds, all spray nozzles from 92 to 269 degrees azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S3c-DL-DRSPW@261	Core Spray Sparger "D" Lower, Drain to Sparger PipeWeld at 81 degrees azimuth, Includes Tack Weld on Drain Plug	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-AU-ECSPW@271	Core Spray Sparger "A" Upper, End Cap to Sparger Pipe Weld at 271 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-AU-ECSPW@89	Core Spray Sparger "A" Upper, End Cap to Sparger Pipe Weld at 89 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-BL-ECSPW@271	Core Spray Sparger "B" Lower, End Cap to Sparger Pipe Weld at 271 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-BL-ECSPW@89	Core Spray Sparger "B" Lower, End Cap to Sparger Pipe Weld at 89 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-CU-ECSPW@269	Core Spray Sparger "C" Upper, End Cap to Sparger Pipe Weld at 269 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-CU-ECSPW@91	Core Spray Sparger "C" Upper, End Cap to Sparger Pipe Weld at 93 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-DL-ECSPW@269	Core Spray Sparger "D" Lower, End Cap to Sparger Pipe Weld at 269 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NBCS AISI: 11.2 BWRVIP: 18	S4-DL-ECSPW@91	Core Spray Sparger "D" Lower, End Cap to Sparger Pipe Weld at 91 degrees azimuth Assumed to be creviced internally	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	





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IVI	NB	TG-RIMWLD@20>30		4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI:									
	BWRVIP: 26									
IVI	NB	TG-RIMWLD@200>210		4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI:									
	BWRVIP: 26									
IVI	NB	TG-RIMWLD@230>240		4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI:									
	BWRVIP: 26									
IVI	NB	TG-RIMWLD@320>330		4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI:									
	BWRVIP: 26									
IVI	NB	TG-RIMWLD@50-60		4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI:									
	BWRVIP: 26									

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XMA-VIP38 Category Components Examined Equal: 8										
IVI	NB AISI: 11.26 BWRVIP: 38	GW@135	Shroud Support Plate Gusset Weld at 135 Degree Azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.
IVI	NB AISI: 11.26 BWRVIP: 38	GW@15	Shroud Support Plate Gusset Weld at 15 Degree Azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.
IVI	NB AISI: 11.26 BWRVIP: 38	GW@165	Shroud Support Plate Gusset Weld at 165 Degree Azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.
IVI	NB AISI: 11.26 BWRVIP: 38	GW@195	Shroud Support Plate Gusset Weld at 195 Degree Azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.
IVI	NB AISI: 11.26 BWRVIP: 38	GW@315	Shroud Support Plate Gusset Weld at 315 Degree Azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.
IVI	NB AISI: 11.26 BWRVIP: 38	GW@45	Shroud Support Plate Gusset Weld at 45 Degree Azimuth	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.
IVI	NB AISI: 11.15 BWRVIP: 38	SHRD-SUPLTWLD-H8	Core Shroud Horizontal Circumferential Weld including intersections of vertical seam welds	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.
IVI	NB AISI: 11.15 BWRVIP: 38	SHRD-SUPLTWLD-H9	Core Shroud Horizontal Circumferential Weld including intersections of vertical seam welds	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report Section 3, Tab 7 for inspection results.

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XMA-VIP41 Category Components Examined Equal: 157										
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP1	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP10	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP2	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP3	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP4	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP5	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP6	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP7	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP8	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-1-JP9	Jet Pump Adapter Top to Adapter Bottom Weld (Bi-metallic weld)	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP1	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP10	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP2	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP3	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP4	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP5	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP6	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP7	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP8	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-2-JP9	Jet Pump Adapter Bottom to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP1	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP10	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Commmnts/Corrective Measures
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP2	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP3	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP4	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Dur to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP5	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Dur to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP6	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Dur to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP7	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP8	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3a-JP9	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Exam Limited to 40% Due to Configuration
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP1	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP10	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP2	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Commments/Corrective Measures
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP3	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP4	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP5	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP6	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP7	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP8	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	AD-3b-JP9	Jet Pump Adapter Backing Ring Fillet Welds at the Diffuser Tailpipe-to-Adapter Interface	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	N/A	Not Accessible
IVI	NB AISI: 11.3 BWRVIP: 41	BB-1-JP1&JP2	Jet Pump Beam Bolt Hole Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-1-JP3&JP4	Jet Pump Beam Bolt Hole Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-1-JP5&JP6	Jet Pump Beam Bolt Hole Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-1-JP7&JP8	Jet Pump Beam Bolt Hole Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Commmnts/Corrective Measures
IVI	NB AISI: 11.3 BWRVIP: 41	BB-1-JP9&JP10	BWRVIP Location BB-1 Jet Pump Beam Bolt Hole Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-2-JP1&JP2	Jet Pump Beam Transition Arm Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-2-JP3&JP4	et Pump Beam Transition Arm Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-2-JP5&JP6	Jet Pump Beam Transition Arm Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-2-JP7&JP8	Jet Pump Beam Transition Arm Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	BB-2-JP9&JP10	BWRVIP Location BB-2 Jet Pump Beam Transition Arm Region	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP1	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP10	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP2	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP3	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP4	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Commmnts/Corrective Measures
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP5	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP6	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP7	Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP8	BWRVIP Location Jet Pump Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-1-JP9	BWRVIP Location DF-1 Jet Pump Diffuser Collar to Diffuser Shell Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP1	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP10	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP2	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP3	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP4	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP5	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP6	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP7	Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP8	BWRVIP Location Jet Pump Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.3 BWRVIP: 41	DF-2-JP9	BWRVIP Location DF-2 Jet Pump Diffuser Shell to Tailpipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	IN-4-JP1	Jet Pump Inlet Single Hole Nozzle Casting to Mixer Barrel	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	IN-4-JP2	Jet Pump Inlet Single Hole Nozzle Casting to Mixer Barrel	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	IN-4-JP3	Jet Pump Inlet Single Hole Nozzle Casting to Mixer Barrel	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	IN-4-JP4	Jet Pump Inlet Single Hole Nozzle Casting to Mixer Barrel	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	IN-4-JP5	Jet Pump Inlet Single Hole Nozzle Casting to Mixer Barrel	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	IN-4-JP6	Jet Pump Inlet Single Hole Nozzle Casting to Mixer Barrel	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP1	BWRVIP Location MX-2 Jet Pump Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP10	BWRVIP Location MX-2 Jet Pump Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP2	Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP3	Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP4	Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP5	Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP6	Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP7	Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP8	BWRVIP Location MX-2 Jet Pump Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.6 BWRVIP: 41	MX-2-JP9	BWRVIP Location MX-2 Jet Pump Barrel to Adapter Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-1a-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-1a-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB	RB-1a-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1b-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1b-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1b-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1c-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1c-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1c-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1d-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1d-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-1d-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Vessel Pad Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									
IVI	NB	RB-2a-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.19									
	BWRVIP: 41									

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2a-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2a-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2b-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2b-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2b-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2c-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2c-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2c-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2d-JP1&JP2	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2d-JP3&JP4	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.19 BWRVIP: 41	RB-2d-JP5&JP6	Jet Pump Primary Riser Brace Leaf to Yoke Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.22 BWRVIP: 41	RS-1-JP1&JP2	Recirc Thermal Sleeve to Jet Pump Riser Elbow Weld BWRVIP-41 Location RS-1	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-1-JP3&JP4	Recirc Thermal Sleeve to Jet Pump Riser Elbow Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-1-JP5&JP6	Recirc Thermal Sleeve to Jet Pump Riser Elbow Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-1-JP7&JP8	Recirc Thermal Sleeve to Jet Pump Riser Elbow Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-1-JP9&JP10	Recirc Thermal Sleeve to Jet Pump Riser Elbow Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-2-JP1&JP2	Jet Pump Riser Elbow to Riser Pipe Weld BWRVIP-41 Location RS-2	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-2-JP3&JP4	Jet Pump Riser Elbow to Riser Pipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-2-JP5&JP6	Jet Pump Riser Elbow to Riser Pipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-2-JP7&JP8	Jet Pump Riser Elbow to Riser Pipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-2-JP9&JP10	Jet Pump Riser Elbow to Riser Pipe Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-3-JP1&JP2	Jet Pump Riser Pipe to Transition Piece Weld BWRVIP-41 Location RS-3	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.22 BWRVIP: 41	RS-3-JP3&JP4	Jet Pump Riser Pipe to Transition Piece Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-3-JP5&JP6	Jet Pump Riser Pipe to Transition Piece Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-3-JP7&JP8	Jet Pump Riser Pipe to Transition Piece Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-3-JP9&JP10	Jet Pump Riser Pipe to Transition Piece Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-6-JP1&JP2	BWRVIP Location RS-6 Jet Pump Riser Pipe to Restrainer Bracket Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-6-JP3&JP4	Jet Pump Riser Pipe to Restrainer Bracket Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-6-JP5&JP6	Jet Pump Riser Pipe to Restrainer Bracket Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-7-JP1&JP2	BWRVIP Locarion RS-7 Jet Pump Riser Pipe to Restrainer Bracket Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-7-JP3&JP4	Jet Pump Riser Pipe to Restrainer Bracket Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-7-JP5&JP6	Jet Pump Riser Pipe to Restrainer Bracket Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.22 BWRVIP: 41	RS-8-JP1&JP2	Jet Pump Riser Pipe to Primary Riser Brace Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB	RS-8-JP3&JP4	Jet Pump Riser Pipe to Primary Riser Brace Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.22									
	BWRVIP: 41									
IVI	NB	RS-8-JP5&JP6	Jet Pump Riser Pipe to Primary Riser Brace Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.22									
	BWRVIP: 41									
IVI	NB	RS-9-JP1&JP2	Jet Pump Riser Pipe to Primary Riser Brace Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.22									
	BWRVIP: 41									
IVI	NB	RS-9-JP3&JP4	Jet Pump Riser Pipe to Primary Riser Brace Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.22									
	BWRVIP: 41									
IVI	NB	RS-9-JP5&JP6	Jet Pump Riser Pipe to Primary Riser Brace Circ. Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.22									
	BWRVIP: 41									
IVI	NB	WD-1-JP1	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.21									
	BWRVIP: 41									
IVI	NB	WD-1-JP10	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.21									
	BWRVIP: 41									
IVI	NB	WD-1-JP11	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.21									
	BWRVIP: 41									
IVI	NB	WD-1-JP12	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.21									
	BWRVIP: 41									
IVI	NB	WD-1-JP13	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.21									
	BWRVIP: 41									
IVI	NB	WD-1-JP14	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
	AISI: 11.21									
	BWRVIP: 41									

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP15	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP16	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP17	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP18	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP19	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP2	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP20	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP3	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP4	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP5	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP6	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP7	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP8	Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	
IVI	NB AISI: 11.21 BWRVIP: 41	WD-1-JP9	BWRVIP Location WD-1 Jet Pump Wedge Bearing Surface Area	4160145	Westinghouse	RE20 IVVI	VT-1	IV-BWR-001 Rev:1	NRI	

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
XMA-VIP47 Category Components Examined Equal: 36										
IVI	NB AISI: BWRVIP: 47	CRGT-1-(06-35)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(10-19)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(10-35)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(14-23)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(14-31)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(18-15)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(22-23)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(22-39)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(30-15)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(34-15)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(34-35)	Control Rod Drive Guide Tube to Aligment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.

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Plant Unit: 1

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National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB AISI: BWRVIP: 47	CRGT-1-(38-23)	Control Rod Drive Guide Tube to Alignment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-1-(42-19)	Control Rod Drive Guide Tube to Alignment Lug Weld	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-2-(10-19)	Control Rod Drive Gudie Tube Assembly Upper Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-2-(10-35)	Control Rod Drive Gudie Tube Assembly Upper Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-2-(22-39)	Control Rod Drive Gudie Tube Assembly Upper Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-2-(34-15)	Control Rod Drive Gudie Tube Assembly Upper Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-2-(38-23)	Control Rod Drive Gudie Tube Assembly Upper Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-3-(10-19)	Control Rod Drive Gudie Tube Assembly Lower Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-3-(10-35)	Control Rod Drive Gudie Tube Assembly Lower Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-3-(22-39)	Control Rod Drive Gudie Tube Assembly Lower Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
IVI	NB AISI: BWRVIP: 47	CRGT-3-(34-15)	Control Rod Drive Gudie Tube Assembly Lower Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

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Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB	CRTG-3-(38-23)	Control Rod Drive Gudie Tube Assembly Lower Circ Weld	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Did not remove at this time. Examined from interior of Guide Tube in the weld area in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-APRIN-1-(10-35)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-APRIN-1-(22-23)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-APRIN-1-(22-39)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(06-35)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(10-19)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(14-23)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(14-31)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(18-15)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(30-15)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(34-15)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
IVI	NB	FS/GT-ARPIN-1-(34-35)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(38-23)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									
IVI	NB	FS/GT-ARPIN-1-(42-19)	Anti-Rotational Pin and Pin to Core Plate Weld for Control Rod Drive Guide Tube Alignment Lug and Fuel Support Casting	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	Did not remove Orificed Fuel Support Casting or Guide Tube at this time. Examined in conjunction with ASME Section XI examination.
	AISI: 11.24									
	BWRVIP: 47									

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Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Exam Location ID	Discription	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
XMAUG Category Components Examined Equal: 13										
RICSIL	NB	JP1>JP10-ADJSCR-GAPS	Jet Pump Adjusting Screw Gaps	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 3 under each Jet Pump section for inspection results.
AISi: 11.21 BWRVIP:										
RICSIL	NB	JP11>JP20-ADJSCR-GAPS	Jet Pump Adjusting Screw Gaps	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	See RE20 IVVI Report, Section 3, Tab 3 under each Jet Pump section for inspection results.
AISi: 11.21 BWRVIP:										
SIL 420	NB	JP1>JP20-SENSLINE	Jet Pump Sensing Lines	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	
AISi: 11.13 BWRVIP:										
SIL 420	NB	JP1>JP20-SENSLINE-BKTWLD	Jet Pump Sensing Line Bracket Wleds	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	
AISi: 11.13 BWRVIP:										
SIL 462	NB	SSAHC-0-UT	Core Shroud Access Hole Cover to Core Shroud Support Plate	4160142	Westinghouse	AHCEDS#-1	UT	CPRI-ISI-350 Rev 0C1	NRI	UT examinations performed utilizing 45S and phased array 0 to 80L search units. Examinations were not performed at 305 to 20 and 120 to 190 degrees due to configuration limitations. Visual exam per WVO 4160145 (ref. RE20 IVVI report).
AISi: 11.7 BWRVIP:										
SIL 462	NB	SSAHC-180-UT	Core Shroud Access Hole Cover to Core Shroud Support Plate	4160142	Westinghouse	AHCEDS#-2	UT	CPRI-ISI-350 Rev 0C1	RI	UT examinations performed using the 45S and phased array 0 to 80 L search units. Indication identified at 222 to 239 degrees using phased array search unit. Indication appeared to be weld "suck up" or undercut and is not indicative of IGSCC therefore SAT.
AISi: 11.7 BWRVIP:										
SIL 462	NB	SSAHC-180-VT	Core Shroud Access Hole Cover to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Examined areas that were inaccessible by UT.
AISi: 11.7 BWRVIP:										
SIL 462	NB	SSAHCH-0-VT	Core Shroud Access Hole Cover to Core Shroud Support Plate	4160145	Westinghouse	RE20 IVVI	EVT-1	IV-BWR-001 Rev:1	NRI	Examined areas that were inaccessible by UT.
AISi: 11.7 BWRVIP:										
SIL 465	NB	JP1>JP10-NOZMIX-INLET	Jet Pump Inlet Nozzle and Mixer Region (Welds and Crud Buildup)	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	
AISi: 11.6 BWRVIP:										
SIL 465	NB	JP11>JP-20-NOZMIX-INLET	Jet Pump Inlet Nozzle and Mixer Region (Welds and Crud Buildup)	4160145	Westinghouse	RE20 IVVI	VT-3	IV-BWR-001 Rev:1	NRI	
AISi: 11.6 BWRVIP:										

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Owner: NPPD P.O. Box 499, Columbus, NE 68302  
Plant: Cooper Nuclear Station, P.O. Box 98, Brownville, NE 68321  
Plant Unit: No. 1

Commercial Service: July 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

System	Configuration	Code Cat	Code Item	Exam	Procedure	Rev	Completion Date	Comments
CS-A	ASME Class 2 Core spray System, Loop A	C-H	C7.30, C7.50, C7.70	VT-2 40 month	6.1CS.501	5	06/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections.
CS-B	ASME Class 2 Core spray System, Loop B	C-H	C7.30, C7.50, C7.70	VT-2 40 month	6.2CS.501	4	06/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections.
HPCI	ASME Class 2 HPCI System	C-H	C7.30, C7.70	VT-2 40 month	6.HPCI.502	0	01/2002	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections.
NBI	ASME Class 1 Vessel Flange Leak Detection Line	BP	B15.50	VT-2 Each refuel outage	7.0.8.1	12	12/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition. Reference PM 10606 and WO 4184927 for completion of work.
NBI	ASME Class 3 Nuclear Boiler Instrumentation System	D-A & D-B	D1.10 D2.10	VT-2 40 month	6.NBI.501	6	10/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections.
RCIC	ASME Class 2 Reactor Core Isolation Cooling System	C-H	C7.30, C7.50, C7.70	VT-2 40 month	6.RCIC.501	5	10/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections.
RCIC	ASME Class 2 Reactor Core Isolation Cooling System	C-H	C7.30, C7.70	VT-2 40 month	6.RCIC.502	0	01/2002	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections.
REC	ASME Class 3 Reactor Equipment Cooling	C-H & D-B	C7.10, C7.30, C7.50, C7.70, D2.10	VT-2 40 month	6.REC.501	6	09/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections.

Owner: NPPD P.O. Box 499, Columbus, NE 68302  
Plant: Cooper Nuclear Station, P.O. Box 98, Brownville, NE 68321  
Plant Unit: No. 1

Commercial Service: July 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

System	Configuration	Code Cat	Code Item	Exam	Procedure	Rev	Completion Date	Comments
RHR	ASME Class 2 Residual Heat Removal System	C-H	C7.10, C7.30, C7.50, C7.70	VT-2 40 month	6.1RHR.501	6	12/2001 01/2002	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections. Shut down cooling piping performed during outage, balance performed post outage.
SW-A	ASME Class 2 Service Water System	DB	D2.10	VT-2 40 Month	6.1SW.501	8	01/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections
SW-B	ASME Class 2 Service Water System	DB	D2.10	VT-2 40 month	6.2SW.501	7	01/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections
NB &  CRD	ASME Class 1 System Leakage Test.  Includes Class 2 portions of CRD System	B-P  C-H	B15.10 B15.50 B15.60 B15.70  C7.10 C7.30 C7.70	VT-2 Each refuel outage	6.MISC.502	10C1	12/2001	Pressure testing performed in accordance to ASME Section XI, 1989 Edition and all applicable procedure sections. Miscellaneous non-code leaks identified and corrected.

NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
2 1/2 x 5 Type Snubbers Examined and or Tested Equal: 52										
10	MS	MS-S16B	2 1/2 x 5	4164747	CNS	4164710	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.7	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164710 removed snubber S/N 10046 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with with identical snubber S/N 8101.
11	MS	MS-S19	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
12	MS	MS-S2	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
13	MS	MS-S23	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
14	MS	MS-S25	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
15	MS	MS-S3	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
16	MS	MS-S4	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, Reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
17	MS	MS-S7A	2 1/2 x 5	4164747	CNS	4164743	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.7	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164743 removed snubber S/N 8542 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with with identical snubber S/N 7744.
18	MS	MS-S7B	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Relief Suveillance Procedure 6.SNUB.601 and Request RI-13.
19	REC	RCC-S20	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
2	CS	CS-S11	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
20	REC	RCC-S21	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
21	REC	RCC-S22	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
22	RHR	RH-S20	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
23	RHR	RH-S22	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
24	RHR	RH-S24	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
25	RHR	RH-S25	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
26	RHR	RH-S25A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
27	RHR	RH-S26	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
28	RHR	RH-S27A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
29	RHR	RH-S30A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
3	CS	CS-S2	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
30	RHR	RH-S30B	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
31	RHR	RH-S34	2 1/2 x 5	4164747	CNS	4164716	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.7	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164716 removed snubber S/N 10050 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with with identical snubber S/N 7730.
32	RHR	RH-S37	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
33	RHR	RH-S40	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
34	RHR	RH-S41	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
35	RHR	RH-S42	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
36	RHR	RH-S43	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
37	RHR	RH-S44A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
38	RHR	RH-S44B	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
39	RHR	RH-S48A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
4	CS	CS-S3	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
40	RHR	RH-S48B	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
41	RHR	RH-S52	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
42	RHR	RH-S54	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
43	RHR	RH-S55	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
44	RHR	RH-S57	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
45	RHR	RH-S59	2 1/2 x 5	4164747	CNS	4164718	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.7	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164718 removed snubber S/N 8096 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with with identical snubber S/N 8132.
46	RHR	RH-S76A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
47	RHR	RH-S76B	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
48	RHR	RH-S77	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
49	RHR	RH-S78A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
5	CS	CS-S6	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
50	RHR	RH-S78B	2 1/2 x 5	4164747	CNS	4164740	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.7	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164740 removed snubber S/N 8165 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with with identical snubber S/N 8079.
51	RHR	RH-S80	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
52	RHR	RH-S96A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
53	RHR	RH-S98	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
6	CS	CS-S7	2 1/2 x 5	4164747	CNS	4164717	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.7	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, Reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164717 removed snubber S/N 10061 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with with identical snubber S/N 10051.
7	HPCI	HP-S15	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
8	MS	BS-S116A	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
9	MS	BS-S116B	2 1/2 x 5	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
PSA-10 Type Snubbers Examined and or Tested Equal: 89										
1	CS	CS-S1	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
100	MS	VR-H64D	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
101	MS	VR-S1	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
102	MS	VR-S10	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
103	MS	VR-S11	PSA-10	4164747	CNS	4202891	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205891 removed snubber S/N 477 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 487.
104	MS	VR-S14	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
105	MS	VR-S2	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
106	MS	VR-S23A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
107	MS	VR-S23B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
108	MS	VR-S24A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.



NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
109	MS	VR-S24B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
110	MS	VR-S26	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
111	MS	VR-S3	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
112	MS	VR-S30	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
113	MS	VR-S32	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
114	MS	VR-S4	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
115	MS	VR-S42A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
116	MS	VR-S42B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
117	MS	VR-S51	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
118	MS	VR-S6	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
119	MS	VR-S62A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
120	MS	VR-S62B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
121	MS	VR-S71A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
122	MS	VR-S71B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
123	MS	VR-S74	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
124	MS	VR-S8	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
125	MS	VR-S81	PSA-10	4164747	CNS	4164390	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164390 removed snubber S/N 449 as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 7019.
126	MS	VR-S83A	PSA-10	4164747	CNS	4164395	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164395 removed snubber S/N 464M as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 15147.
127	MS	VR-S83B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
128	MS	VR-S84	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
129	MS	VR-S85	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
130	MS	VR-S86A	PSA-10	4164747	CNS	4205892	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.38.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205892 removed snubber S/N 479 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 5217.
131	MS	VR-S86B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
132	MS	VR-S87A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
133	MS	VR-S87B	PSA-10	4164747	CNS	4164386	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164386 removed snubber S/N 473 as part of 10% Test Sample, performed as found and as left VT-3, performed functional test, and replaced with with identical snubber S/N 401.
134	MS	VR-S88	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
135	RF	RF-S10	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
136	RF	RF-S11	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
137	RF	RF-S12	PSA-10	4164747	CNS	4164613	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164613 removed snubber S/N 472 as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 17205.
138	RF	RF-S14	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
139	RF	RF-S15	PSA-10	4164747	CNS	4164701	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164701 removed snubber S/N 5281 as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 470.
140	RF	RF-S16	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
141	RF	RF-S17	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
142	RF	RF-S18	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
143	RF	RF-S19	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
144	RF	RF-S8	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
145	RHR	RH-S11	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
146	RHR	RH-S14	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
147	RHR	RH-S14A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
148	RHR	RH-S5	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
149	RHR	RH-S6	PSA-10	4164747	CNS	4164617	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164617 removed snubber S/N 481 as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 17204.

NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
150	RHR	RH-S67	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
151	RHR	RH-S68	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
152	RHR	RH-S69A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
153	RHR	RH-S69B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
154	RHR	RH-S70	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
155	RHR	RH-S71	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
156	RHR	RH-S73	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
157	RHR	RH-S8A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
158	RHR	RH-S8B	PSA-10	4164747	CNS	4205995	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205995 removed snubber S/N 8145M due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 7003.
159	RHR	RH-S8C	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
60	PC	PV-S1AA	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
61	PC	PV-S1AB	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
62	RHR	RH-S21	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
63	RHR	RH-S29	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
64	RHR	RH-S3A	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
65	RHR	RH-S45	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
66	RHR	RH-S49	PSA-10	4164747	CNS	4202850	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4202850 removed snubber S/N 476 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 394.
67	RHR	RH-S58	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
79	MS	MS-S22	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
80	MS	SS-B2	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
81	MS	SS-B3	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
82	MS	SS-C2	PSA-10	4164747	CNS	4164392	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164392 removed snubber S/N 448 as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 447.
84	MS	VR-55-9-Y	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
85	MS	VR-55-9-Z	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
86	MS	VR-56-12-Y	PSA-10	4164747	CNS		VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
87	MS	VR-58-12-Y	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
88	MS	VR-59-7-X	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
89	MS	VR-59-7-Z	PSA-10	4164747	CNS	4164391	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164391 removed snubber S/N 465M as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 478.
90	MS	VR-60-7-X	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
91	MS	VR-60-7-Z	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
92	MS	VR-61-8-X	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
93	MS	VR-62-17-X	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, Reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
94	MS	VR-62-8-X	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
95	MS	VR-H61D	PSA-10	4164747	CNS	4164393	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164393 removed snubber S/N 457M as part of 10% Test Sample, performed as found and as left VT-3, and replacement with with identical snubber S/N 402.
96	MS	VR-H62B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
97	MS	VR-H62C	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
98	MS	VR-H63B	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
99	MS	VR-H63C	PSA-10	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
PSA-3 Type Snubbers Examined and or Tested Equal: 15										
54	CS	CS-VE7	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
55	MS	MS-S149B	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
56	MS	MS-S16	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
57	RHR	RH-S65A	PSA-3	4164747	CNS	4164382	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164382 removed snubber S/N 843 as part of the 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replaced with identical snubber S/N 8378.
58	RHR	RH-S65B	PSA-3	4164747	CNS	4164385	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164385 removed snubber S/N 8374 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with identical snubber S/N 458.
69	MS	MS-S21	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
70	MS	MS-S63	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
71	MS	VR-S31	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
72	MS	VR-S43	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
73	MS	VR-S50A	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
74	MS	VR-S50B	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
75	RF	RF-S9	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
76	RHR	RH-S15	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
77	RWCU	CU-S3A	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
78	RWCU	CU-S3B	PSA-3	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
PSA-35 Type Snubbers Examined and or Tested Equal: 49										
160	MS	SS-A2	PSA-35	4164747	CNS	4164709	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164709 removed snubber S/N 6437 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with identical snubber S/N 12983.
161	MS	SS-D2	PSA-35	4164747	CNS	4164703	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only. reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164703 removed snubber S/N 5315 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with identical snubber S/N 5299.
162	MS	SS-A3	PSA-35	4164747	CNS	4205999	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205999 removed snubber S/N 9907 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with identical snubber S/N 5319.
163	MS	SS-D3	PSA-35	4164747	CNS	4164706	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 Relief Request RI-13. Work Order 4164706 removed snubber S/N 5327 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with identical snubber S/N 12979.
164	MS	VR-55-23-X	PSA-35	4164747	CNS	4164704	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164704 removed snubber S/N 5316 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with identical snubber S/N 5320.
165	MS	VR-55-26-Z	PSA-35	4164747	CNS	4205998	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205998 removed snubber S/N 8925 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with identical snubber S/N 5310.
166	MS	VR-56-24-X	PSA-35	4164747	CNS	4205997	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205997 removed snubber S/N 8920 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with identical snubber S/N 10797.

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Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
167	MS	VR-61-17-X	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
168	MS	VR-61-8-Z	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
169	MS	VR-62-8-Z	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
170	MS	VR-S12	PSA-35	4164747	CNS	4205992	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205992 removed snubber S/N 6866 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 5323.
171	MS	VR-S20	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
172	MS	VR-S21	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
173	MS	VR-S22	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
174	MS	VR-S25	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
175	MS	VR-S27	PSA-35	4164747	CNS	4205990	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4105990 removed snubber S/N 5321 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 345.
176	MS	VR-S40	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
177	MS	VR-S41	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
178	MS	VR-S60	PSA-35	4164747	CNS	4205988	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205988 removed snubber S/N 5318 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 5301.
179	MS	VR-S61	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
180	MS	VR-S63	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
181	MS	VR-S72	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
182	MS	VR-S73	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
183	MS	VR-S7A	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
184	MS	VR-S7B	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
185	MS	VR-S82	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
186	RF	RF-S13	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
187	RHR	RH-S9	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

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NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
188	RHR	RH-S10	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
189	RHR	RH-S16	PSA-35	4164747	CNS	4205982	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205982 removed snubber S/N 5304 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 339.
190	RHR	RH-S17	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
191	RHR	RH-S18	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
192	RHR	RH-S19	PSA-35	4164747	CNS	4205986	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4205986 removed snubber S/N 5307 due to Service Life Monitoring, performed as found and as left VT-3, performed Functional Test, and replaced with with identical snubber S/N 5302.
193	RHR	RH-S72A	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
194	RR	SS-1A	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
195	RR	SS-1B	PSA-35	4164747	CNS	4164702	VT-3 VT-3 FUNCTEST	7.2.34.1 7.2.34.2 7.2.34.8	SAT, OP SAT, OP SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13. Work Order 4164702 removed snubber S/N 5303 as part of 10% Test Sample, performed as found and as left VT-3, performed Functional Test, and replacement with with identical snubber S/N 6878.
196	RR	SS-2A	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
197	RR	SS-2B	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

NIS-1, Table 1.5, RE20: Snubber Visual Examinations and Test Results

Owner: NPPD P.O. Box 499 Columbus, NE 68602  
Plant: Cooper Nuclear Station P.O. Box 98, Brownville, NE 68321  
Plant Unit: 1

Commerical Service Date: July, 1974  
Owner Certificate of Authorization: N/A  
National Board Number for Unit: 20762

Item No.	System	Component ID	Snubber Type	Work Order	Performed By	Report No.	Exam	Procedure	Results	Comments/Corrective Measures
198	RR	SS-3A1	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
199	RR	SS-3A2	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
200	RR	SS-3B1	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
201	RR	SS-3B2	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
202	RR	SS-4A	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
203	RR	SS-4B	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
204	RR	SS-5A	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
205	RR	SS-5B	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
59	MS	BS-S2A	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
68	MS	BS-S1B&R	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.
83	MS	SS-C3	PSA-35	4164747	CNS	4164747	VT-3	7.2.34.1	SAT, OP	Work Order 4164747 Visual Examiantion only, reference Suveillance Procedure 6.SNUB.601 and Relief Request RI-13.

Total Snubbers Equal: 205

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

1. Owner: Nebraska Public Power District Date: April 2, 2002  
P.O. Box 98  
Brownville, Nebraska 68321 Sheet 1 of 8

2. Plant: Cooper Nuclear Station Unit One  
P.O. Box 98  
Brownville, Nebraska 68321 N/A  
Repair Organization, P.O. No., Job No., etc.

3. Work Performed by: NPPD Type Code Symbol Stamp N/A  
P.O. Box 98 Authorization No. N/A  
Brownville, Nebraska 68321 Expiration Date N/A

4. Identification of System As shown in the Attached Table

5. (a) Applicable Construction Code As shown in the Attached Table  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements:  
1989 Edition including 1989 Addenda & 1992 Edition including 1992 Addenda (IWE)

6. Identification of Components Repaired or Replaced and Replacement Components: As shown in the Attached Table

7. Description of Work: As shown in the Attached Table

8. Tests Conducted: As shown in the Attached Table

9. Remarks: The following Code Cases listed in the Third Ten-Year Interval Program were used for Repairs and Replacements:  
N-416-1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and these repairs and replacements conform to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *James A. Ranalli* Date 3/27/2002

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Nebraska and Employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period May 30, 2000 to January 2, 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*K. Saltzman* Commissions NB 11047 A, N, I, C, NS  
Inspector's Signature National Board, State, Province, and Endorsements

Date Mar 27, 2002



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As required by the Provisions of the ASME Code Section XI**  
**Nebraska Public Power District, Cooper Nuclear Station, Unit 1, P.O. Box 98, Brownville, Nebraska 68321**

MWR	System	Name of Component	Mfgr. Serial No	CI	Name of Manufacturer	Nat'l Board No.	Description of Work	Applicable Constr. Code	Year Built	Repaired or Replaced	ASME Code Stamp	Pressure Tests Conducted, Code Cases
99-3174(2)	SW	SW-P-A	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Replaced both lower columns and bowl assembly	B31.1-1967	1969	Replaced	N/A	99-402
99-3303	SW	SW-P (Part 19127)	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Weld repair flange mating surface.	B31.1-1967	1969	Repaired	N/A	N/A
99-3535	SW	SW-AOV-850AV	N/A	3	Hills-McCanna	N/A	Replaced valve.	B31.1-1967	1969	Replaced	N/A	00-051
00-0003	SW	SW-P (Part 10484 & 10487)	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Weld repair eroded areas of the columns and flanges.	B31.1-1967	1969	Repaired	N/A	N/A
00-0460	SW	SW-P-BPA	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Replace Pump, Remove and reinstall pump support	B31.1-1967	1969	Replaced	N/A	00-216
00-0469(2)	SW	SW-P-BPC	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Replace Pump, Remove and reinstall pump support, Grind pump pedestal	B31.1-1967	1969	Replaced	N/A	00-249
00-2466	SW	SW-CV-13CV	N/A	3	Atwood & Morrill	N/A	Replace Valve	B31.1-1967	1969	Replaced	N/A	00-270
00-2466	SW	SW-EXPJ-SWPD	N/A	3	Garlock	N/A	Replace expansion joint	B31.1-1967	1969	Replaced	N/A	00-270
00-2466(2)	SW	SW-P-D	N/A	3	Byron Jackson Div/Borg Warner	N/A	Replace Pump Complete and the 32 studs in intermediate column	B31.1-1967	1969	Replaced	N/A	00-270
00-3104	SW	SW-P-BPB	N/A	3	Byron Jackson Div/ Borg-Warner	N/A	Replace Pump & Remove and repalce pump support	B31.1-1967	1969	Replaced	N/A	01-029
00-3682	SW	SW-P (Part 01466)	N/A	3	Byron Jackson Div/ Borg-Warner	N/A	Replace top case and drill new holes for new wear ring	B31.1-1967	1969	Repaired	N/A	N/A
4158132	REC	REC-Hx-A	27030	3	Southwestern Engineering Co.	N/A	Repair Eroded Areas by Welding	ASME VIII 1968 Edition	1969	Repaired	YES	01-041, N-416-1
4158133	REC	REC-Hx-B	27031	3	Southwestern Engineering Co.	N/A	Repair Eroded Areas by Welding	ASME VIII 1968 Edition	1969	Repaired	YES	01-042
4159595	REC	FC-R-1J	N/A	3	American Air Filter	N/A	Replace Fan Coil and add nipples to inlet/outlet	B31.1-1967	1969	Replaced	N/A	00-238, 00-239
4159596	REC	FC-R-1E	N/A	3	American Air Filter	N/A	Replace Fan Coil	B31.1-1967	1969	Replaced	N/A	01-196, 01-525
4159603	RCC	RCC pipe weld W51	N/A	3	NPPD	N/A	Repair cracked weld	B31.1-1967	1969	Repaired	N/A	01-169, N-416-1
4159614	SW	SW - Pipe	N/A	3	NPPD	N/A	Replace pipe	B31.1-1967	1969	Replaced	N/A	01-052, N-416-1

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**As required by the Provisions of the ASME Code Section XI**  
**Nebraska Public Power District, Cooper Nuclear Station, Unit 1, P.O. Box 98, Brownville, Nebraska 68321**

MWR	System	Name of Component	Mfrg. Serial No	CI	Name of Manufacturer	Nat'l Board No.	Description of Work	Applicable Constr. Code	Year Built	Repaired or Replaced	ASME Code Stamp	Pressure Tests Conducted, Code Cases
4159615	SW	SW - Pipe Cap	N/A	3	NPPD	N/A	Replace Pipe Cap	B31.1-1967	1969	Replaced	N/A	01-053, N-416-1
4159623	PC	Vent Ring Header	C-4448	2	Chicago Bridge & Iron	N/A	Repair weld burn through	ASME III, 1965 Edition, w/ W. 67' Add.	1969	Repaired	YES	6.PC.503
4159624	PC	Torus Support	C-4448	2	Chicago Bridge & Iron	N/A	Repair indication in weld	ASME III, 1965 Edition, w/ W. 67' Add.	1969	Repaired	YES	N/A
4159629	PC	Vent Ring Header	C-4448	2	Chicago Bridge & Iron	N/A	Repair weld burn through	ASME III, 1965 Edition, w/ W. 67' Add.	1969	Repaired	YES	6.PC.503
4159767	HPCI	HPCI-CV-10CV	N/A	2	Anchor Darling	N/A	Replaced tack weld on disc nut	B31.1-1967	1969	Replaced	N/A	01-004
4159884	CRD	CRD-02-27	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 1966 Add.	1969	Replaced	N/A	6.MISC.502
4159899	SW	SW-Piping	N/A	3	Power Cutting Inc.	N/A	Fab Replacement spools	B31.1-1967	1969	Replaced	N/A	01-266, N-416-1
4159899	SW	SW-Piping	N/A	3	Power Cutting Inc.	N/A	Install Replacement spools	B31.1-1967	1969	Replaced	N/A	01-266, N-416-1
4159899	SW	SW-Piping Supports	N/A	3	Power Cutting Inc.	N/A	Replace Piping supports	B31.1-1967	1969	Replacement	N/A	N/A
4159899	SW	SW-Piping	N/A	3	Power Cutting Inc.	N/A	Repair piping local thin areas	B31.1-1967	1969	Repaired	N/A	01-266, N-416-1
4159899	SW	SW-H164	N/A	3	Power Cutting Inc.	N/A	Replace pipe support	B31.1-1967	1969	Replaced	N/A	N/A
4159899	SW	SW-H163	N/A	3	Power Cutting Inc.	N/A	Replacejam nut on pipe support	B31.1-1967	1969	Replaced	N/A	N/A
4159899	SW	SW-S98	N/A	3	Power Cutting Inc.	N/A	Replace nut, bolt & spacer	B31.1-1967	1969	Replaced	N/A	N/A
4159946	RHR	RHR-MOV-MO39B	N/A	2	Anchor Darling	N/A	Drill hole in valve disc, plug, drill new hole through disc	B31.1-1967	1969	Repaired	N/A	01-273, 6.PC.501
4159947	HPCI	HPCI-MOV-MO58	N/A	2	Anchor Darling	N/A	Drill hole in valve disc	B31.1-1967	1969	Repaired	N/A	01-274, 6.PC.501
4159954	MS	MS-MO-MO77	N/A	3	Anchor Valve Co.	N/A	Replace valve by welding	B31.1-1967	1969	Replaced	N/A	01-689, N-416-1
4159962	RCIC	RCIC-CV-20CV	N/A	2	Crane-Aloyco	N/A	Replace disc stud locking nut	B31.1-1967	1969	Replaced	N/A	N/A
4159978	RHR	RHR-MOV-MO39A	N/A	2	Anchor Darling	N/A	Drill hole in valve disc	B31.1-1967	1969	Repaired	N/A	01-272, 6.PC.501,
4159978	RHR	RHR-MOV-MO39A	N/A	2	NOVA Mach. Prd.	N/A	Replace bonnet studs	B31.1-1967	1969	Replacement	N/A	01-272

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As required by the Provisions of the ASME Code Section XI  
Nebraska Public Power District, Cooper Nuclear Station, Unit 1, P.O. Box 98, Brownville, Nebraska 68321

MWR	System	Name of Component	Mfrg. Serial No	CI	Name of Manufacturer	Nat'l Board No.	Description of Work	Applicable Constr. Code	Year Built	Repaired or Replaced	ASME Code Stamp	Pressure Tests Conducted, Code Cases
4159995	SW	RHR-HX-B	27052	3	Southwestern Engineering Co.	N/A	Repair divider plate edge and closure head groove	ASME VIII 1968 Edition	1969	Repaired	YES	01-459, N-416-1
4159996	SW	RHR-HX-A	27051	3	Southwestern Engineering Co.	N/A	Repair divider plate edge and closure head groove	ASME VIII 1968 Edition	1969	Repaired	YES	01-460
4160040	HPCI	HPCI-CV-15CV	N/A	2	Anchor Darling	N/A	Replace valve and add new piping	B31.1-1967	1969	Replaced	N/A	01-487, N-416-1, 6.PC.501
4160113	SW	SW-Pipe	N/A	3	NPPD	N/A	Replace Piping	B31.1-1967	1969	Replaced	N/A	01-309, 01-315, 01-217
4160127	SW	SW-CV-19CV-SPARE	N/A	3	NPPD	N/A	Repair by adding lugs	B31.1-1967	1969	Repaired	N/A	N/A
4160286	SW	SW-Pipe	N/A	3	NPPD	N/A	Repair Tee, Replace pipe flange, reducer, and pipe	B31.1-1967	1969	Repaired, Replaced	N/A	01-111, N-416-1
4160511	RHR	RHR-MOV-MO38A	N/A	2	Anchor Darling	N/A	Repair by removing tack weld	B31.1-1967	1969	Repaired	N/A	01-281
4160517	SW	SW-V-145	N/A	3	POSI-SEAL INTL.	N/A	Replace Valve	B31.1-1967	1969	Replaced	N/A	01-158
4160573	REC	REC-MOV-713MV	N/A	3	Henry Pratt Co.	N/A	Replaced valve with a new valve	B31.1-1967	1969	Replaced	N/A	99-257
4160574	REC	REC-MOV-712MV	N/A	3	Henry Pratt Co.	N/A	Replaced valve with a new valve	B31.1-1967	1969	Replaced	N/A	99-256
4160595	REC	REC-V-181	N/A	3	Edward - Vogt	N/A	Replace Valve and fittings	B31.1-1967	1969	Replaced	N/A	00-276
4160626	REC	REC-V-18	N/A	3	Henry Pratt	N/A	Replaced valve	B31.1-1967	1969	Replaced	N/A	99-253
4160627	REC	REC-V-19	N/A	3	Henry Pratt	N/A	Replaced valve	B31.1-1967	1969	Replaced	N/A	99-252
4160631	REC	REC-V-20	N/A	3	NOVA Machine	N/A	Replaced flange to body bolting	B31.1-1967	1969	Replaced	N/A	99-254
4160631	REC	REC-V-20	N/A	3	Henry Pratt	N/A	Replaced valve	B31.1-1967	1969	Replaced	N/A	99-254
4160632	REC	REC-V-21	N/A	3	Henry Pratt	N/A	Replaced valve	B31.1-1967	1969	Replaced	N/A	99-255
4163338	SW	SW-P (Part 19127)	N/A	3	Byron Jackson Div/ Borg Warner	N/A	Repair eroded areas by welding	B31.1-1967	1969	Repaired	N/A	N/A
4163338	SW	SW-P (Part 10486)	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Weld repair eroded areas and machine fits to original dims.	B31.1-1967	1969	Repaired	N/A	N/A
4163338	SW	SW-P (Part 10485)	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Weld repair eroded areas and machine fits to original dims.	B31.1-1967	1969	Repaired	N/A	N/A
4163338	SW	SW-P (Part 10484)	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Weld repair eroded areas and machine fits to original dims.	B31.1-1967	1969	Repaired	N/A	N/A

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As required by the Provisions of the ASME Code Section XI**  
**Nebraska Public Power District, Cooper Nuclear Station, Unit 1, P.O. Box 98, Brownville, Nebraska 68321**

MWR	System	Name of Component	Mfgr. Serial No	CI	Name of Manufacturer	Nat'l Board No.	Description of Work	Applicable Constr. Code	Year Built	Repaired or Replaced	ASME Code Stamp	Pressure Tests Conducted, Code Cases
4163338	SW	SW-P (Part 10483)	N/A	3	Byron Jackson Div/Borg-Warner	N/A	Weld repair eroded areas and machine fits to original dims.	B31.1-1967	1969	Repaired	N/A	N/A
4163678 (2)	RHR	RHR-RV-17RV	N/A	2	Consolidated	N/A	Replaced valve & piping	B31.1-1967	1969	Replaced	N/A	00-123
4163949 (2)	SW	SW-MOV-651MV	N/A	3	Henry Pratt Co.	N/A	Replace the valve & valve disk	B31.1-1967	1969	Replaced	N/A	00-248
4164382	RHR	RH-S65A	8378	2	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164385	RHR	RH-S65B	458	2	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164386	MS	VR-S87B	401	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164390	MS	VR-S81	7019	3	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164391	MS	VR-59-7-Z	478	3	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164392	MS	SS-C2	447	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164393	MS	VR-H61D	402	3	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164395	MS	VR-S83A	15147	3	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164613	RF	RF-S12	17205	3	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164617	RHR	RH-S6	17204	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164701	RF	RF-S15	470	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164702	RR	SS-1B	6878	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164703	MS	SS-D2	5299	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164704	MS	VR-55-23-Z	5320	3	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164706	MS	SS-D3	12979	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164709	MS	SS-A2	12983	1	Pacific Scientific	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164710	MS	MS-S16B	8101	2	Grinnell	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164716	RHR	RH-S34	7730	2	Grinnell	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164717	CS	CS-S7	10051	2	Grinnell	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164718	RHR	RH-S59	8132	2	Grinnell	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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**Nebraska Public Power District, Cooper Nuclear Station, Unit 1, P.O. Box 98, Brownville, Nebraska 68321**

MWR	System	Name of Component	Mfgr. Serial No	CI	Name of Manufacturer	Nat'l Board No.	Description of Work	Applicable Constr. Code	Year Built	Repaired or Replaced	ASME Code Stamp	Pressure Tests Conducted, Code Cases
4164738	MC	PENT-X1B	C4448	MC	C B & I	N/A	Replaced swing bolt & nut	ASME III, 1965 Edition w/ W. 67' Add.	1969	Replaced	YES	6.PC.501
4164740	RHR	RH-S78B	8079	2	Grinnell	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4164743	MS	MS-S7A	7744	2	Grinnell	N/A	Replaced Snubber	B31.1-1967	1969	Replaced	N/A	N/A
4180095	RHR	RHR-MOV-MO16B	N/A	2	Anchor Darling	N/A	Replaced B/B studs/nuts	B31.1-1967	1969	Replaced	N/A	01-219
4181190	SW	SW-PIPING	N/A	3	Power Cutting Inc.	N/A	Fab Replacement spools	B31.1-1967	1969	Replaced	N/A	01-267, N-416-1
4181190	SW	SW-Piping	N/A	3	Power Cutting Inc.	N/A	Replaced SW Piping	B31.1-1967	1969	Replaced	N/A	01-267, N-416-1
4181190	SW	SW-Piping Supports	N/A	3	Power Cutting Inc.	N/A	Remove/Replace pipe supps.	B31.1-1967	1969	Replaced	N/A	N/A
4183975	RF	RF-CV-16CV	N/A	1	Anchor Darling	N/A	Replace hinge cover studs	B31.1-1967	1969	Replaced	N/A	01-605, 6.PC.501
4184038	RCIC	RCIC-RD-S240	N/A	2	Black Sivals & Bryson	N/A	Replaced rupture disc	B31.1-1967	1969	Replaced	N/A	01-387
4184060	HPCI	HPCI-RD-S241	N/A	2	Black Sivals & Bryson	N/A	Replaced rupture disc	B31.1-1967	1969	Replaced	N/A	01-388
4184060	HPCI	HPCI-RD-S241	N/A	2	NOVA Machine	N/A	Replaced studs	B31.1-1967	1969	Replaced	N/A	01-388
4187057 (2)	MS	MS-RV-71ARV	376, 376	1	Target Rock	N/A	Replaced valve body & pilot, & hex nuts with splined nuts	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4189197	CRD	CRD-06-23	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4189302	CRD	CRD-26-27	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4189306	CRD	CRD-14-47	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4189309	CRD	CRD-18-31	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4189312	CRD	CRD-22-03	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502

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MWR	System	Name of Component	Mfgr. Serial No	CI	Name of Manufacturer	Nat'l Board No.	Description of Work	Applicable Constr. Code	Year Built	Repaired or Replaced	ASME Code Stamp	Pressure Tests Conducted, Code Cases
4189317	CRD	CRD-26-07	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4189342	CRD	CRD-26-51	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan 66' Add.	1969	Replaced	N/A	6.MISC.502
4189345	CRD	CRD-30-39	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan 66' Add.	1969	Replaced	N/A	6.MISC.502
4189347	CRD	CRD-34-51	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4189349	CRD	CRD-38-19	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4189356	CRD	CRD-50-23	N/A	1	General Electric	N/A	Replaced CRD flange & bolts	ASME III 1965 Edition, w/Jan. 66' Add.	1969	Replaced	N/A	6.MISC.502
4190074	MS	MS-RV-71BRV	380, 382	1	Target Rock	N/A	Replaced valve body & pilot	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4190074	MS	MS-RV-71BRV	380	1	Target Rock Corp.	N/A	Replace hex nut with splined nut	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4190074	MS	MS-RV-71BRV	380	1	Target Rock Corp.	N/A	Machined inlet flange surfaces	B31.1-1967	1969	Repaired	N/A	6.MISC.502
4190075	MS	MS-RV-71DRV	378	1	Target Rock	N/A	Replaced Pilot Assy.	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4190076	MS	MS-RV-71FRV	380	1	Target Rock	N/A	Replaced Pilot Assy.	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4190077	MS	MS-RV-71CRV	386	1	Target Rock	N/A	Replaced Pilot Assy.	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4190078	MS	MS-RV-71-ERV	383	1	Target Rock	N/A	Replaced Pilot Assy.	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4190079 (2)	MS	MS-RV-71HRV	377, 377	1	Target Rock	N/A	Replaced valve body & pilot, &hex nuts with splined nuts	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4190100	MS	MS-RV-71GRV	384	1	Target Rock	N/A	Replaced Pilot Assy.	B31.1-1967	1969	Replaced	N/A	6.MISC.502
4195751 (2)	SW	SW-P- (Part 01466)	N/A	3	Byron Jackson	N/A	Replaced top case & drilled holes for wear rings & nuts	B31.1-1967	1969	Replaced	N/A	N/A
4200011	SW	SW-P-BPD	N/A	3	Byron Jackson	N/A	Replaced pump, removed and replaced pedestal weld	B31.1-1967	1969	Replaced	N/A	01-466

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MWR	System	Name of Component	Mfgr. Serial No	CI	Name of Manufacturer	Nat'l Board No.	Description of Work	Applicable Constr. Code	Year Built	Repaired or Replaced	ASME Code Stamp	Pressure Tests Conducted, Code Cases
4200711	SW	SW-MOV-MO89A	N/A	3	Control Components, Inc.	N/A	Replaced plug	B31.1-1967	1969	Replaced	N/A	01-541
4200712	SW	SW-MOV-MO89B	N/A	3	Control Components, Inc.	N/A	Replaced Plug	B31.1-1967	1969	Replaced	N/A	01-543
4200917	RCIC	RCIC-V-42	N/A	2	Velan, Anderson-Greenwood	N/A	Replaced valve and added new valve	B31.1-1967	1969	Replaced	N/A	01-529, 6.PC.519
4201301	SW	SW-Piping	N/A	3	NPPD	N/A	Replaced elbow	B31.1-1967	1969	Replaced	N/A	01-517
4202840	SW	SW-CV-10CV	N/A	3	Atwood & Morrill	N/A	Replaced Valve	B31.1-1967	1969	Replaced	N/A	01-511
4202850	RHR	RH-S49	394	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4203836	REC	REC-weld 2848-2-W36	N/A	3	NPPD	N/A	Repaired crack by welding	B31.1-1967	1969	Repaired	N/A	01-546, N-416-1
4205325	SW	SW-Piping	N/A	3	NPPD	N/A	Replaced pipe	B31.1-1967	1969	Replaced	N/A	01-547, N-416-1
4205891	MS	VR-S11	487	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205892	MS	VR-S86A	5217	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205982	RHR	RH-S16	339	1	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205986	RHR	RH-S19	5302	1	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205988	MS	VR-S60	5301	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205990	MS	VR-S27	345	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205992	MS	VR-S12	5323	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205995	RHR	RH-S8B	7003	1	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205997	MS	VR-56-24-X	10797	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205998	MS	VR-55-26-Z	5310	3	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4205999	MS	SS-A3	5319	1	Pacific Scientific	N/A	Replaced snubber	B31.1-1967	1969	Replaced	N/A	N/A
4207739	SW	DG-1 Intercooler		3	Thermal Eng.	N/A	Replaced intercooler head	B31.1-1967	1969	Replaced	N/A	01-588
4208434	SW	SW-H138	N/A	3	NPPD	N/A	Replaced pipe support	B31.1-1967	1969	Replaced	N/A	N/A
4208664	SW	SW-Piping	N/A	3	NPPD	N/A	Replaced Piping by welding	B31.1-1967	1969	Replaced	N/A	01-266
4208741	SW	SW-S97	N/A	3	Grinnell	N/A	Replaced end paddle on strut	B31.1-1967	1969	Replaced	N/A	N/A

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