

ENCLOSURE 1

to

Nebraska Public Power District

Letter CNSS937262

OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

FORM NIS-1

Cooper Nuclear Station

NRC Docket No. 50-298, DPR-46

NIS-1 FORM

OWNER'S DATA REPORT FOR INSERVICE INSPECTION

As Required by the Provisions of the ASME Code Rules

1. OWNER: Nebraska Public Power District, PO Box 499, Columbus, NE 68601
2. PLANT: Cooper Nuclear Station #1, PO Box 98, Brownville, NE 68321
3. PLANT UNIT: #1 4. OWNER CERTIFICATE OF AUTHORIZATION (If Required): N/A
5. COMMERCIAL SERVICE DATE: 07/74 6. NATIONAL BOARD NUMBER FOR UNIT: #20762
7. COMPONENTS INSPECTED: See Attached Exam Component ID Index
8. EXAMINATION DATES: 2-16-92 to 8-01-93 9. INSPECTION INTERVAL: From 1985 to 1994
10. ABSTRACT OF EXAMINATIONS: For a list of examinations, see attached Exam Component ID Index. Current status or work required for current interval is 73% complete this date.
11. ABSTRACT OF CONDITIONS NOTED: See Attached Report Summary
12. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN: See Attached Report Summary

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

Date October 15, 1993

Signed

  
(Plant Manager)

Certificate of Authorization No. (If Applicable):

NA

Expiration Date: NA

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NEBRASKA and employed by H.S.R. I - I CO. of HARTFORD CT. have inspected the components described in this Owner's Data Report during the period 2-16-92 to 8-01-93, 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 Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date: 10-15-93

  
(Inspector's Signature)

Commissions:

NB # 10352 "N" "I" Nebraska

(National Board, State, Province, and No.)





## NDE INSPECTION SERVICES REPORT SUMMARY

### 1.0 INTRODUCTION

Nondestructive Examinations were performed by GE Inspection Services of GE Nuclear Energy at Cooper Nuclear Station Unit 1 under contract No. 86A-MS2 Task 305 of Nebraska Public Power District. The examinations were performed from February 16, 1992 through August 1, 1993. A total of 591 components were examined during this period. The total includes ASME Section XI Inservice Inspection Components and Augmented Inservice Inspections.

### 2.0 SUMMARY OF COMPONENTS INSPECTED

The following table lists the components examined and describes indications and/or deficiencies which were recorded.

<u>ASME Category</u>	<u>Number of Components</u>	<u>Description</u>	<u>Conditions Noted</u>
B-A	15	Vessel Welds	No Recordable Indications (NRI) Fifteen (15) Components examined for Section XI ISI credit.
B-D	6	Nozzle to Vessel Welds	(NRI) NVE-BD-N9 Exam. limited to 70.16% coverage.
		Vessel Nozzle Blend Radius	(NRI) NVIR-BD-N9 Exam limited to 70.16% coverage. Four (4) components examined for Section XI ISI credit.
B-E	9	Pressure Retaining Partial Penetration Welds in Vessel	(NRI) * Performed by CNS Personnel* Nine (9) components examined for Section XI ISI credit.
B-F	7	Class 1 Pressure Retaining Dissimilar Metal Welds	JPB-BF-1 - ID Counterbore recorded, Ref. DM-300. RCA-BF-1 - ID Surface Geometry and Root Geometry recorded Ref. DM-304, DM-305, and DM-306. RRF-BF-1 - ID Root Geometry, Acoustic Interface and spot lack of fusion recorded Ref. Data Sheets DA-013 and DA-014. RRG-BF-1 - ID Root Geometry, Acoustic Interface and spot lack of fusion Ref. Data Sheets DA-010, DA-011 and DA-012. RBD-BF-7 re-examined due to scheduling error in period 2. Remaining Components (NRI) Six (6) components examined for Section XI ISI credit.



## GE Nuclear Energy

PAGE 2 of 4  
NPPD Cooper Nuclear Station  
Commercial Service Date: July 1974  
National Board Number: 20762

ASME Category	Number of Components	Description	Conditions Noted
B-G-2	79	Pressure Retaining Bolting less than 2" in diameter	NRI Thirty-One (31) components examined for Section X: ISI credit. Forty-Eight (48) components examined for Section XI Pre-service Inspection (PSI)
B-H	6	Integral Attachments for Vessels	Three (3) welds examined for Section XI ISI credit. HNC-C1-1 - Two Rejectable Linear Indications recorded Ref. Data Sheet D-118, Indications were removed Ref. D-477. Component had limited examination coverage of 50% HNC-C1-2: Component had limited examination coverage of 50%. Scope expansion due to indication in HNC-C1-1. HNC-C1-3: Component had limited examination coverage of 50%. Original scheduled weld; indication observed in HNC-C1-1, first identified as located in this component. RPV-BH-1 and RPV-BH-4: Completed limited examinations, originally begun in period 1 (Spring 1989 Outage). Remaining Components (NRI).
B-J	61	Pressure Retaining Welds in Piping	FWD-BJ-19 had limited Examination coverage of 50%. Examined FWD-BJ-25 for Section XI code credit. FWA-BJ-20: Examined limited to 50% coverage; examined FBA-BJ-44 for Section XI code credit. FWD-BJ-24 - Root Geometry Recorded, Ref. DM-241 FWD-BJ-25 - OD Geometry and ID Root Geometry Recorded, Ref. DM-243 FWD-BJ-9 - ID and OD Geometry Recorded, Ref. DM-230 PWA-BJ-1 - 2 Spot Laminar and ID Geometry Recorded Ref. DM-419 and DM-420 PWA-BJ-2 - ID Geometry Recorded, Ref. DM-417 RHA-BJ-11 - Root Geometry Recorded, Ref. DM-279 RHB-BJ-1 - ID Root Geometry Recorded, Ref. DM-281 RHB-BJ-17 - Surface Exam (NRI), but limited to 84.23% coverage, volumetric exam recorded OD Geometry and Root Geometry, Exam limited to 78.94% coverage. Examined RHB-BJ-11 for Section XI code credit.



## GE Nuclear Energy

PAGE 3 of 4  
NPPD Cooper Nuclear Station  
Commercial Service Date: July 1974  
National Board Number: 20762

ASME Category	Number of Components	Description	Conditions Noted
B-J (Cont'd)		Pressure Retaining Welds in Piping	RHB-BJ-18- OD Geometry Recorded, Ref. DM-364 RHB-BJ-2 - Root Geometry Recorded, Ref. DM-443 RWA-BJ-6 - OD Geometry Recorded, Ref. DM-066 Remaining Components - (NRI) Fifty-Nine (59) welds examined for Section XI ISI credit. The following welds are longitudinal welds associated with circumferential welds - no separate code credit will be taken for these welds: RHA-BJ-11A, RHA-BJ-11B, RHA-BJ-12A, RHA-BJ-14A, RHA-BJ-9A, RHB-BJ-10A, RHB-BJ-10B, RHB-BJ-11A, RHB-BJ-17A, RHB-BJ-18A, RAD-BJ-40A, RBD-BJ-40A, RHB-BJ-1A, RHB-BJ-1B, RHB-BJ-2A, RHB-BJ-7A, RHB-BJ-7B.
B-K-1	4	Class 1 Integral Attachments	(NRI) FWD-BK1-35 - Exam limited to 60% coverage MSA-BK1-44 - Exam limited to 62% coverage. Two (2) welds examined for Section XI ISI credit.
B-M-2	2	Class 1 Valve Body	(NRI) Two (2) components examined for Section XI ISI credit.
B-N-1	8	Interior of Vessel	(NRI) Eight (8) examinations completed for Section XI ISI credit.
B-N-2	4	Interior Attachments to Vessel	(NRI) Four (4) examinations completed for Section XI ISI credit.
B-O	3	Pressure Retaining welds in Control Rod Housing	(NRI) CRD-02-27-1 - Limited to 50% coverage CRD-26-51-1 - Limited to 50% coverage CRD-30-03-1 - Limited to 50% coverage
B-P	2	Class 1 Pressure Retaining Components	Class 1 system leakage test. *Performed by CNS Personnel*



## GE Nuclear Energy

PAGE 4 of 4  
NPPD Cooper Nuclear Station  
Commercial Service Date: July 1974  
National Board Number: 20762

<u>ASME Category</u>	<u>Number of Components</u>	<u>Description</u>	<u>Conditions Noted</u>
C-A	2	Class II Welds in Pressure Vessel	RHR-CA-3A - OD Geometry Recorded, Ref. DM-404, Exam limited to 88.20% coverage RHR-CA-6A - (NRI) Exam limited to 86.50% coverage.
C-B	2	Class II Nozzle Welds in Vessel	(NRI) Two (2) welds examined for Section XI ISI credit.
C-C	16	Class II Integral Attachments	CS-PB-A1 - Rejectable Linear Indication, Ref. D-048, repaired and acceptable, Ref. D-478 Remaining Components - (NRI) Sixteen (16) welds examined for Section XI ISI credit.
C-F	27	Class II Welds in Piping	(NRI) Twenty-Seven (27) welds examined for Section XI ISI credit.
D-A	3	Systems in Support of Reactor Shutdown Function	(NRI) Three (3) welds examined for Section XI ISI credit.
F-A	21	Plate and Shell Type Supports	(NRI) Twenty-One (21) supports examined for Section XI ISI credit.
F-B	15	Linear Type Supports	(NRI) Fifteen (15) supports examined for Section XI ISI credit.
F-C	52	Component Standard Supports	NRI Fifty-Two (52) supports examined for Section XI ISI credit.



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 1 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-A	HMA-BB-1	R-227	SR-102	0' 45'S 60'S	DM-340 DM-341 DM-342	CM-048 CM-049 DM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMA-BB-2	R-227	SR-102	0' 45'S 60'S	DM-334 DM-335 DM-336	CM-048 CM-049 DM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMA-BB-3	R-227	SR-102	0' 45'S 60'S	DM-337 DM-338 DM-339	CM-048 CM-049 CM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMA-BB-4	R-227	SR-102	0' 45'S 60'S	DM-331 DM-332 DM-333	CM-048 CM-049 DM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMA-BB-5	R-227	SR-102	0' 45'S 60'S	DM-328 DM-329 DM-330	CM-048 CM-049 DM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMA-BB-6	R-227	SR-102	0' 45'S 60'S	DM-325 DM-326 DM-327	CM-048 CM-049 DM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMA-BB-7	R-227	SR-102	0' 45'S 60'S	DM-322 DM-323 DM-324	CM-048 CM-049 CM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMA-BB-8	R-227	SR-102	0' 45'S 60'S	DM-319 DM-320 DM-321	CM-048 CM-049 CM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMB-BB-5	R-226	SR-101	0' 45'S 60'S	DM-313 DM-314 DM-315	CM-045 CM-046 CM-047	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	16 16 16	NRI NRI NRI SCANNED 5" REF. RI-06
B-A	HMB-BB-6	R-226	SR-101	0' 45'S 60'S	DM-316 DM-317 DM-318	CM-045 CM-046 CM-047	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	16 16 16	NRI NRI NRI SCANNED 5" REF. RI-06
B-A	HMC-BB-1	R-228	SR-103	0' 45'S 60'S	DM-343 DM-344 DM-345	CM-048 CM-049 CM-050	GE BA-3,4	L-025 L-024 L-023	218"	VESSEL BHD-C	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HMD-BB-2	R-257	SR-117	0' 45'S 60'S	DM-387 DM-385 DM-386	CM-053 CM-054 CM-055	GE BA-3,4	L-026 L-027 L-028	218"	THD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 2 of 28  
REVISION No. 0

ASME CAT	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-A	HME-BB-7	R-255	SR-115	0° 45°S 60°S	DM-375 DM-376 DM-377	CM-053 CM-054 CM-055	GE.BA3,4	L-026 L-027 L-028	218"	THD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	HME-BB-8	R-254	SR-114	0° 45°S 60°S	DM-372 DM-373 DM-374	CM-053 CM-054 CM-055	GE.BA3,4	L-026 L-027 L-028	218"	THD-M	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-A	VCB-BC6-3	R-246	SR-113	MT 0° 45°S	D-370 DM-381 DM-382	N/A CM-053 CM-054	GE.BA3,4	N/A L-026 L-027	218"	THD-FI	GE-MT-100 GE-UT-300 GE-UT-300	0 2 2	91-25 91-12 91-12	N/A 15 15	NRI NRI NRI EXAM. 240° TO 360°
B-D	NVE-BD-N6A	R-256	SR-116	0° 45°S 60°S	DM-378 DM-379 DM-380	CM-053 CM-054 CM-055	GE.BA3,4	L-026 L-027 L-028	6"	N-VES	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	15 15 15	NRI NRI NRI
B-D	NVE-BD-N8B	R-259	SR-122	0° 45°S 60°S	DM-412 DM-413 DM-414	CM-063 CM-064 CM-065	CE.232-242	L-029 L-029 L-030	5"	NOZ-VES	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	16 16 16	NRI NRI NRI
B-D	NVE-BD-N9	R-258	SR-121	0° 45°S 60°S	DM-409 DM-410 DM-411	CM-063 CM-064 CM-065	CE.232-242	L-029 L-029 L-030	5"	N-VES	GE-UT-300 GE-UT-300 GE-UT-300	2 2 2	91-12 91-12 91-12	16 16 16	NRI NRI NRI, EXAM LIMITED TO 70.16% COVERAGE.
B-D	NVIR-BD-N6A	R-232	SR-107	PT	D-350	N/A	CE.232-244	N/A	6"	NIR	GE-PT-100	0	91-27	N/A	NRI (REF. R1-06)
B-D	NVIR-BD-N8B	R-211	SR-091	60°S 70°RL	DM-284 DM-285	CM-029 CM-030	CE232-241	L-004 L-004	5"	NIR	GE-UT-305 GE-UT-305	2 2	93-01 93-01	16 16	NRI NRI
B-D	NVIR-BD-N9	R-210	SR-092	60°S 70°RL	DM-283 DM-282	CM-029 CM-030	CE232-242	L-004 L-004	5"	NIR	GE-UT-305 GE-UT-305	2 2	93-01 93-01	16 16	NRI NRI, EXAM LIMITED TO 70.16% COVERAGE.
B-E	CRD 34-03	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-E	CRD 34-19	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-E	CRD 34-35	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-E	CRD 38-07	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 3 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
B-E	CRD 38-27	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-E	CRD 38-47	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-E	INCORE 20-45	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-E	INCORE 28-05	93-737	N/A	VT-2	93-737	N/A	GE197R576	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-E	NVE-BE-N10	93-737	N/A	VT-2	93-737	N/A	CE 232-242	N/A	N/A	N/A	CNS 6.3.10.28 CNS 7.0.8.1	4 5	N/A	N/A	EXAMINED BY CNS
B-F	CSA-BF-1	R-278	SR-137	PT 45°S 45°RL 60°RL	D-458 DA-016 DA-017 DA-018	N/A CA-015 CA-016 CA-017 CA-018	CNS-CS-4	N/A L-021 L-021 L-021 L-021	13.4"	SE-NOZ	GE-PT-100 GE-UT209 GE-UT209 GE-UT209 GE-UT209	0 1 1 1 1	93-27 93-03 93-03 93-03 93-03	N/A 51 61 121 121	NRI ID GEOMETRY NRI ACOUSTIC INTERFACE & ID GEOMETRY ACOUSTIC INTERFACE & ID GEOMETRY
B-F	JPB-BF-1	R-220	SR-097	PT 45°S 45°RL 60°RL	D-302 DM-299 DM-300 DM-301	N/A CM-034 CM-035 CM-036 CM-037 CM-038 CM-039	CE232-241	N/A L-004 L-004 L-004 L-004 L-004 L-004	6"	SE-N	GE-PT-100 GE-UT-105 GE-UT-105 GE-UT-105 GE-UT-105 GE-UT-105 GE-UT-105	0 2 2 2 2 2 2	91-27 91-07 91-07 91-07 91-07 91-07 91-07	N/A 109 107 109 107 109 107	NRI NRI NRI ID COUNTERBORE ID COUNTERBORE NRI NRI
B-F	RAD-BF-7	R-171	SR-062	PT 0° 45°S 45°S 45°RL	D-215 DM-216 DM-217 DM-218 DM-219	N/A CM-018 CM-017 CM-015 CM-016	CNS-RR-37	N/A L-009 L-009 L-009 L-009	24"	P-P	GE-PT-100 GE-UT-106 GE-UT-106 GE-UT-102 GE-UT-102	0 1 1 2 2	91-27 91-08,-37 91-08,-37 91-05 91-05	N/A 106 106 55 55	NRI NRI NRI NRI NRI
B-F	RBD-BF-7	R-169	SR-060	PT 0° 45°S	D-209 DM-210 DM-211	N/A CM-018 CM-017	CNS-RR-38	L-009 L-009	24"	P-P	GE-PT-100 GE-UT-106 GE-UT-106	0 1 1	91-27 91-08,-37 91-08,-37	N/A 106 106	NRI NRI NRI, NOTE: NO NIS-1 CODE CREDIT TO BE TAKEN THIS OUTAGE





# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 4 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
B-F	RCA-BF-1	R-221	SR-098	PT 45°S 45°RL 60°RL	D-303 DM-304 DM-305 DM-306	N/A CM-040 CM-041 CM-042	CE232-241	N/A L-004 L-004 L-004	5"	N-CAP	GE-PT-100 GE-UT-105 GE-UT105 GE-UT-105	0 2 2 2	91-27 91-07 91-07 91-07	N/A 20 20 20	NRI INSIDE SURFACE AND ROOT GEOMETRY ID ROOT GEOMETRY ID SURFACE GEOMETRY
B-F	RRF-BF-1	R-244	SR-136	PT 45°S 45°RL 60°RL	D-368 DA-013 DA-014 DA-015	N/A CA-012 CA-013 CA-014	CNSRR37	N/A L-021 L-021 L-021	14"	SE-NOZ	GE-PT-100 GE-UT-209 GE-UT-209 GE-UT-209	0 1 1 1	91-27 93-03 93-03 93-03	N/A 52 121 121	NRI ID ROOT GEOMETRY ACOUSTIC INTERFACE & SPOT LACK OF FUSION NRI
B-F	RRG-BF-1	R-245	SR-135	PT 45°S 45°RL 60°RL	D-369 DA-010 DA-011 DA-012	N/A CA-009 CA-010 CA-011	CNSRR37	N/A L-021 L-021 L-021	14"	SE-NOZ	GE-PT-100 GE-UT-209 GE-UT-209 GE-UT-209	0 1 1 1	91-27 93-03 93-03 93-03	N/A 52/60 121 121	NRI ID ROOT GEOMETRY ACOUSTIC INTERFACE SPOT LACK OF FUSION
B-G-2	2" BULKHEAD SEAL FLANGE	R-311	N/A	VT-1	DOH92001	N/A	232-230	N/A	N/A	BOLT	IV1-W812	3	1	N/A	NRI
B-G-2	BAG 1	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 42-15	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 22-03	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 42-19	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 38-27	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 46-27	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 38-23	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 26-27	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 30-07	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 30-31	R-022	N/A	VT-1	D-022	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
B-G-2	CRD22-19	R-023	N/A	VT-1	D-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	BAG 12	R-023	N/A	VT-1	D-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT, IN WAREHOUSE
	CRD 22-27	R-023	N/A	VT-1	D-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	CRD 34-11	R-023	N/A	VT-1	D-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	CRD 50-35	R-023	N/A	VT-1	E-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	CRD 18-15	R-023	N/A	VT-1	I-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	CRD 46-31	R-023	N/A	VT-1	I-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	CRD 22-11	R-023	N/A	VT-1	D-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	CRD 42-07	R-023	N/A	VT-1	D-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT
	CRD 14-43	R-023	N/A	VT-1	D-023	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI SAT



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 5 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-G-2	CRD 34-39	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 38-43	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 14-11	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 14-11	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLTS
	CRD 14-15	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 14-15	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLTS
	CRD 38-11	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 38-11	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLTS
	CRD 10-11	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W8*2	3	1	N/A	PSI; SAT
	CRD 10-11	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLTS
	CRD 14-39	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 14-39	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLTS
	CRD 18-39	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 18-39	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLTS
	CRD 26-31	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 38-39	R-025	N/A	VT-1	D-025	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
B-G-2	CRD 34-27	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 34-27	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLTS
	CRD 30-27	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 18-19	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 34-43	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 26-19	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 42-11	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 46-35	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 46-23	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
B-G-2	CRD 38-35	R-026	N/A	VT-1	D-026	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 42-35	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 10-39	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 10-39	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLT
	CRD 18-03	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT
	CRD 18-03	R-268	N/A	VT-1	D-432	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	ISI SAT, REMOVED FROM SVS, NEW STYLE BOLT
	CRD 26-23	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI; SAT



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 6 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC NUMBER	REV NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-G-2	CRD 18-43 CRD 18-43	R-024 R-268	N/A N/A	VT-1 VT-1	D-024 D-432	N/A N/A	N/A N/A	N/A N/A	N/A N/A	BOLT BOLT	IV1-W812 IV1-W812	3 3	1 1	N/A N/A	PSI, SAT ISI SAT, SIX (6) NEW STYLE BOLTS REMOVED FROM SVS
	CRD 30-43	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI, SAT
	CRD 26-35	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI, SAT
	CRD 22-15	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI, SAT
	CRD 42-27	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI, SAT
	CRD 30-15	R-024	N/A	VT-1	D-024	N/A	N/A	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	CS-14A	R-121	N/A	VT-1	D-157	N/A	2501-1	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	CS-CV-18CV	R-123	N/A	VT-1	D-159	N/A	2501-1	N/A	10"	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	CS-CV-19CV	R-123	N/A	VT-1	D-159	N/A	2501-1	N/A	10"	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	HPCI-CV-29CV	R-047	N/A	VT-1	D-057	N/A	2509-2	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	MS-A0-86A	R-047	N/A	VT-1	D-057	N/A	2506-4	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	MS-A0-86B	R-047	N/A	VT-1	D-057	N/A	2506-4	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	MS-A0-86C	R-047	N/A	VT-1	D-057	N/A	2506-4	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	MS-RV /0CRV	R-294	N/A	VT-1	D-476	N/A	N/A	N/A	N/A	STUD BOLT	IV1-W812	3	1	N/A	PSI EXAM, SAT (REF.: MSD-BG2-17)
B-G-2	MS-RV-71F	R-285	N/A	VT-1	D-465	N/A	N/A	N/A	N/A	BOLTS	IV1-W812	3	1	N/A	SAT
B-G-2	MSH-132	R-237	N/A	VT-3 VT-4	D-355	N/A	2506-1	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR MSH-133
B-G-2	MS-V-71G	R-188	N/A	VT-1	D-252	N/A	N/A	N/A	N/A	N/A	IV1-W812	3	1	N/A	12 BOLTS, NRI PSI EXAM S/N 382
B-G-2	MS-RV-71G	R-189	N/A	VT-1	D-253	N/A	N/A	N/A	N/A	N/A	IV1-W812	3	1	N/A	12 NUTS, NRI S/N 382
B-G-2	MS-RV-71G	R-190	N/A	VT-1	D-254	N/A	N/A	N/A	N/A	N/A	IV1-W812	3	1	N/A	12 STUDS, NRI PSI EXAM, S/N 382
B-G-2	N6A	R-311	N/A	VT-1	DOH92001	N/A	232-230	N/A	N/A	BOLT	IV1-W812	3	1	N/A	NRI
B-G-2	N6B	R-311	N/A	VT-1	DOH92001	N/A	232-230	N/A	N/A	BOLT	IV1-W812	3	1	N/A	NRI
B-G-2	N7	R-311	N/A	VT-1	DOH92001	N/A	232-230	N/A	N/A	BOLT	IV1-W812	3	1	N/A	NRI
B-G-2	RF-16-CV	R-275	N/A	VT-1	D-455	N/A	2509-1	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 7 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-G-2	RF-13-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(8)STUDS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RF-13-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(8)NUTS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RF-14-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(S)STUDS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RF-14-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(8)NUTS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RF-15-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(8)STUDS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RF-15-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(8)NUTS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RF-16-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(8)STUDS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RF-16-CV	R-191	N/A	VT-1	D-255	N/A	N/A	N/A	N/A	(8)NUTS	IV1-W812	3	1	N/A	PSI, SAT
B-G-2	RHR-CV-26CV	R-203	N/A	VT-1	D-269	N/A	2510-4	N/A	24"	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	RHR-CV-27CV	R-204	N/A	VT-1	D-270	N/A	2510-3	N/A	24"	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	RHR-MO-18	R-146	N/A	VT-1	D-182	N/A	2510-1	N/A	N/A	N/A	IV1-W812	3	1	N/A	SAT
B-G-2	RHR-V-81A	R-159	N/A	VT-1	D-199	N/A	2510-4	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	RHR-V-81B	R-092	N/A	VT-1	D-128	N/A	2510-3	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	RHR-V-88	R-123	N/A	VT-1	D-159	N/A	2501-1	N/A	10"	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	RRF-BG2-A	R-094	N/A	VT-1	D-130	N/A	CNS-RR-37	N/A	4"	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	RRF-BG2-B	R-093	N/A	VT-1	D-129	N/A	CNS-RR-38	N/A	4"	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	RWCU-CV-15CV	R-047	N/A	VT-1	D-057	N/A	2509-1	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
B-G-2	N7	R-317	N/A	VT-1	DM-490	N/A	232-230	N/A	N/A	BOLT	IV1-W812	3	1	N/A	PSI-NEW BOLTING, SAT
B-H	HNC-C1-1	R-100	SR-049	MT	D-136	N/A	GE-BA-3	N/A	N/A	VES-SK	GE-MT-100	0	91-25	N/A	2 REPORTABLE LINEAR INDICATIONS, EXAM LIMITED TO 50% COVERAGE
		R-263	SR-126	0' 45'S 60'S	DM-429 DM-430 DM-431	CM-070 CM-071 CM-072		L-032 L-032 L-031			MIUSK-W812 MIUSK-W812 MIUSK-W812	1 1 1	N/A N/A N/A	16 16 16	NRI NRI NRI
		R-295	SR-141	MT	D-477	N/A		N/A			GE-MT-100	0	91-25	N/A	NRI OF REPAIR AREA
B-H	HNC-C1-2	R-099	SR-048	MT	D-135	N/A	GE-BA-3	N/A	N/A	VES-SK	GE-MT-100	0	91-25	N/A	NRI, EXAM LIMITED TO 50% COVERAGE
		R-263	SR-126	0' 45'S 60'S	DM-429 DM-430 DM-431	CM-070 CM-071 CM-072		L-032 L-032 L-031			MIUSK-W812 MIUSK-W812 MIUSK-W812	1 1 1	N/A N/A N/A	16 16 16	NRI NRI NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 8 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-H	HNC-C1-3	R-082	SR-040	MT	D-118	N/A	GE BA-3	N/A	218"	VES-SK	GE-MT-100	0	91-25	N/A	NRI, EXAM LIMITED TO 50% COVERAGE
		R-263	SR-126	0" 45°S 60°S	DM-429 DM-430 DM-431	CM-070 CM-071 CM-072		L-032 L-032 L-031			MIUSK-W812 MIUSK-W812 MIUSK-W812	1 1 1	N/A N/A N/A	16 16 16	NRI NRI NRI
B-H	RPV-BH-1	R-299	SR-143	PT	D-481	N/A	CE 232-249	N/A	N/A	LUG	GE-PT-100	0	91-27	N/A	NRI, EXAM LIMITED TO 92%, FULL COVERAGE WITH N-460.
B-H	RPV-BH-3	R-284	SR-138	PT	D-464	N/A	CE 232-249	N/A	N/A	LUG	GE-PT-100	0	91-27	N/A	NRI, EXAM LIMITED TO 93%, FULL COVERAGE WITH N-460.
B-H	RPV-BH-4	R-305	SR-144	PT	D-482	N/A	CE 232-249	N/A	N/A	LUG	GE-PT-100	0	91-27	N/A	NRI, EXAM LIMITED TO 92%, FULL COVERAGE WITH N-460.
B-J	CWB-BJ-4	R-206	SR-087	MT 45°S	D-273 DM-274	N/A CM-024	2509-1	N/A L-004	4"	P-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 2	NRI NRI
B-J	CWB-BJ-27	R-286	SR-139	MT 0" 45°S	D-467 DM-468 DM-466	N/A CM-081 CM-080	2509-1	N/A L-004 L-004	4"	V-E	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 2 2	NRI NRI NRI
B-J	FWA-BJ-19	R-178	SR-069	MT 0" 45°S	D-234 DM-236 DM-235	N/A CM-021 CM-023	2509-1	N/A L-008 L-008	18"	T-RED	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 97 97	NRI NRI NRI
B-J	FWA-BJ-2	R-148	SR-055	MT 45°S	D-185 DM-186	N/A CM-012	2509-1	N/A L-008	12"	E-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI NRI
B-J	FWA-BJ-3	R-147	SR-054	MT 45°S	D-183 DM-184	N/A CM-012	2509-1	N/A L-008	12"	P-E	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI NRI
B-J	FWA-BJ-20	R-179	SR-070	PT 0" 45°S	D-237 DM-238 DM-239	N/A CM-021 CM-022	2509-1	N/A L-008 L-008	18"	V-T	GE-PT-100 GE-UT-106 GE-UT-106	0 1 1	91-27 91-08,-37 91-08,-37	N/A 97 97	NRI NRI NRI, EXAM LIMITED TO 50% COVERAGE. EXAMINED FWA-BJ-44 IN LIEU OF THIS WELD FOR SECTION XI CODE CREDIT
B-J	FWA-BJ-44	R-222	SR-099	MT 45°S	D-307 DM-308	N/A CM-043	2509-1	N/A L-008	18"	V-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 97	NRI NRI, EXAM LIMITED TO 96%, FULL COVERAGE WITH CODE CASE N-460.





# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 9 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
B-J	FWA-BJ-5	R-219	SR-096	MT 45°S	D-297 DM-298	N/A CM-033	2509-1	N/A L-008	12"	E-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI NRI
B-J	FWA-BJ-6	R-262	SR-125	MT 45°S	D-421 DM-422	N/A CM-068	2509-1	N/A L-005	12"	P-E	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI NRI
B-J	FWB-BJ-2	R-173	SR-064	MT 45°S	D-223 DM-224	N/A CM-019	2509-1	N/A L-004	12"	E-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI NRI
B-J	FWB-BJ-3	R-174	SR-065	MT 45°S	D-225 DM-226	N/A CM-019	2509-1	N/A L-004	12"	P-E	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI NRI
B-J	FWC-BJ-10	R-175	SR-066	MT 45°S	D-228 DM-227	N/A CM-020	2509-2	N/A L-008	12"	T-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI NRI
B-J	FWD-BJ-19	R-177	SR-068	PT 0° 45°S	D-233 DM-232 DM-231	N/A CM-021 CM-022	2509-2	N/A L-008 L-008	18"	V-T	GE-PT-100 GE-UT-106 GE-UT-106	0 1 1	91-27 91-08,-37 91-08,-37	N/A 97 97	NRI NRI NRI, EXAM LIMITED TO 50% COVERAGE. EXAMINED FWD-BJ-25 IN LIEU OF THIS WELD FOR SECTION XI CODE CREDIT
B-J	FWD-BJ-24	R-180	SR-071	MT 45°S	D-240 DM-241	N/A CM-083	2509-2	N/A L-008	18"	P-PB	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 97	NRI ROOT GEOMETRY
B-J	FWD-BJ-25	R-181	SR-072	MT 45°S	D-242 DM-243	N/A CM-083	2509-2	N/A L-008	18"	E-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 97	NRI OD GEOMETRY AND ID ROOT GEOMETRY
B-J	FWD-BJ-9	R-176	SR-067	MT 45°S	D-229 DM-230	N/A CM-020	2509-2	N/A L-008	12"	E-PB	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 85	NRI ID, OD GEOMETRY RECORDED
B-J	MSC-BJ-8	R-207	SR-088	MT 45°S	D-275 DM-276	N/A CM-025	GE731E611-4	N/A L-008	24"	P-WOL	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 106	NRI NRI
B-J	MSD-BJ-51	R-225	SR-100	MT 45°S	D-311 DM-312	N/A CM-044	GE731E611	N/A L-008	24"	P-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 106	NRI NRI
B-J	MSDR-BJ-11	R-056	SR-029	MT	D-069	N/A	2506-3	N/A	3"	SOL-P	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-24	R-056	SR-029	MT	D-070	N/A	X2506-201	N/A	2"	V-COU	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-26	R-056	SR-029	MT	D-071	N/A	X2506-201	N/A	2"	P-SOL	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-33	R-056	SR-029	MT	D-072	N/A	X2506-201	N/A	2"	E-P	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-34	R-056	SR-029	MT	D-073	N/A	X2506-201	N/A	2"	P-E	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-39	R-056	SR-029	MT	D-074	N/A	2506-3	N/A	3"	SOL-P	GE-MT-100	0	91-25	N/A	NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 10 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-J	MSDR-BJ-43	R-056	SR-029	MT	D-075	N/A	X2506-201	N/A	2"	E-P	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-44	R-056	SR-029	MT	D-076	N/A	X2506-201	N/A	2"	P-E	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-54	R-057	SR-030	MT	D-077	N/A	X2506-201	N/A	2"	V-COU	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-56	R-057	SR-030	MT	D-078	N/A	X2506-201	N/A	2"	P-SOL	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-61	R-057	SR-030	MT	D-079	N/A	X2506-201	N/A	2"	E-P	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-62	R-057	SR-030	MT	D-080	N/A	X2506-201	N/A	2"	P-E	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-63	R-057	SR-030	MT	D-081	N/A	X2506-201	N/A	2"	E-P	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-67	R-057	SR-030	MT	D-082	N/A	X2506-201	N/A	2"	E-P	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-68	R-057	SR-030	MT	D-083	N/A	X2506-201	N/A	2"	P-E	GE-MT-100	0	91-25	N/A	NRI
B-J	MSDR-BJ-69	R-057	SR-030	MT	D-084	N/A	X2506-201	N/A	2"	COU-P	GE-MT-100	0	91-25	N/A	NRI
B-J	PSA-BJ-17	R-264	SR-127	MT 45°S	D-423 DM-424	N/A CM-069	2506-1	N/A L-007	10"	P-E	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 78	NRI NRI
B-J	PSA-BJ-18	R-265	SR-128	MT 45°S	D-425 DM-426	N/A CM-069	2506-1	N/A L-007	10"	E-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 78	NRI NRI
B-J	PWA-BJ-1	R-261	SR-124	MT 0° 45°S	D-418 DM-419 DM-420	N/A CM-066 CM-067	2509-2	N/A L-008 L-005	14"	E-T	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 14 14	NRI 2-SPOT INDICATIONS ID GEOMETRY
B-J	PWA-BJ-2	R-260	SR-123	MT 0° 45°S	D-415 DM-416 DM-417	N/A CM-066 CM-067	2509-2	N/A L-008 L-005	14"	E-E	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 14 14	NRI NRI ID GEOMETRY
B-J	RAD-BJ-40A	R-172	SR-063	PT 0° 45°S	D-220 DM-221 DM-222	N/A CM-018 CM-017	CNS-RR-37	N/A L-009 L-009	3.5"	LS	GE-PT-100 GE-UT-106 GE-UT-106	0 1 1	91-27 91-08,-37 91-08,-37	N/A 106 106	NRI NRI NRI 3.5" LS OF RAD-BF-7 NOTE: NO NIS-1 CODE CREDIT FOR THIS WELD TAKEN SEPERATELY PART OF RAD-BF-7
B-J	RBD-BJ-40A	R-170	SR-061	PT 0° 45°S	D-212 DM-213 DM-214	N/A CM-018 CM-017	CNS-RR-38	N/A L-009 L-009	??	L/S	GE-PT-100 GE-UT-106 GE-UT-106	0 1 1	91-27 91-08,-37 91-08,-37	N/A 106 106	NRI NRI NRI NOTE: NO NIS-1 CODE CREDIT FOR THIS WELD TAKEN SEPERATELY. 3.5" L/S WELD PART OF RBD-BF-7.





# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 11 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
B-J	RHA-BJ-11	R-208	SR-089	MT 0" 45°S	D-277 DM-278 DM-279	N/A CM-026 CM-027	2510-1	N/A L-008 L-008	20"	P-E	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI ROOT GEOMETRY
B-J	RHA-BJ-11A	R-208	SR-089	MT 0" 45°S	D-277 DM-295 DM-294	N/A CM-026 CM-027	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-11
B-J	RHA-BJ-11A	R-251	SR-110	MT 0" 45°S	D-387 DM-392 DM-393	N/A CM-056 CM-057	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-12
B-J	RHA-BJ-11B	R-208	SR-089	MT 0" 45°S	D-277 DM-295 DM-294	N/A CM-026 CM-027	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-11
B-J	RHA-BJ-11B	R-251	SR-110	MT 0" 45°S	D-387 DM-392 DM-393	N/A CM-056 CM-057	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-12
B-J	RHA-BJ-12	R-251	SR-110	MT 0" 45°S	D-387 DM-388 DM-389	N/A CM-056 CM-057	2510-1	N/A L-008 L-008	20"	E-P	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI
B-J	RHA-BJ-12A	R-251	SR-110	MT 0" 45°S	D-387 DM-390 DM-391	N/A CM-056 CM-057	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-12



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 12 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-J	RHA-BJ-12A	R-252	SR-111	MT 0" 45°S	D-394 DM-397 DM-398	N/A CM-056 CM-057	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-14, EXAM LIMITED TO 94.24%, FULL COVERAGE WITH CODE CASE N-460.
B-J	RHA-BJ-14	R-252	SR-111	MT 0" 45°S	D-394 DM-395 DM-396	N/A CM-056 CM-057	2510-1	N/A L-008 L-008	20"	P-F	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI
B-J	RHA-BJ-14A	R-252	SR-111	MT 0" 45°S	D-394 DM-399 DM-400	N/A CM-056 CM-057	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-14
B-J	RHA-BJ-9A	R-208	SR-089	MT 0" 45°S	D-277 DM-296 DM-293	N/A CM-026 CM-027	2510-1	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 103 103	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHA-BJ-11
B-J	RHB-BJ-1	R-209	SR-090	MT 45°S	D-280 DM-281	N/A CM-028	2510-4	N/A L-009	24"	E-V	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 113	NRI ID ROOT GEOMETRY
B-J	RHB-BJ-10A	R-253	SR-112	MT 0" 45°S	D-378 DM-384 DM-383	N/A CM-059 CM-058	2510-4	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHB-BJ-11
B-J	RHB-BJ-10B	R-253	SR-112	MT 0" 45°S	D-378 DM-384 DM-383	N/A CM-059 CM-058	2510-4	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE COVERAGE FOR THIS WELD. L/S PART OF RHB-BJ-11



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 13 of 28  
REVISION No. 0

ASME CAT	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-J	RHB-BJ-11	R-253	SR-112	MT 0" 45°S	D-378 DM-380 DM-379	N/A CM-059 CM-058	2510-4	N/A L-008 L-008	24"	P-E	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI
B-J	RHB-BJ-11A	R-242	SR-108	MT 45°S	D-360 DM-363	N/A CM-052	2510-4	N/A L-008	12"	L/S	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 114	NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHB-BJ-17
B-J	RHB-BJ-11A	R-253	SR-112	MT 0" 45°S	D-378 DM-382 DM-381	N/A CM-059 CM-058	2510-4	N/A L-008 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHB-BJ-11
B-J	RHB-BJ-17	R-242	SR-108	MT 45°S	D-360 DM-361	N/A CM-052	2510-4	N/A L-008	24"	P-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 114	NRI, EXAM LIMITED TO 84.23% COVERAGE ROOT AND OD GEOMETRY, EXAM LIMITED TO 78.94% COVERAGE. EXAMINED RHB-BJ-11 IN LIEU OF THIS WELD FOR SECTION XI CODE CREDIT.
B-J	RHB-BJ-17A	R-242	SR-108	MT 45°S	D-360 DN0362	N/A CM-052	2510-4	N/A L-008	7.5"	L/S	GE-MT-106 GE-MT-106	0 1	91-25 91-08,-37	N/A 114	NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD.
B-J	RHB-BJ-17A	R-243	SR-109	MT 45°S	D-365 DM-366	N/A CM-052	2510-4	N/A L-008	7.5"	L/S	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 114	NRI NRI NO NIS-1 CODE CREDIT FOR THIS WELD. L/S PART OF RHB-BJ-18
B-J	RHB-BJ-18	R-243	SR-109	MT 45°S	D-365 DM-364	N/A CM-052	2510-4	N/A L-008	24"	P-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 114	NRI OD GEOMETRY



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 14 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
B-J	RHB-BJ-18A	R-243	SR-109	MT 45°S	D-365 DM-367	N/A CM-052	2510-4	N/A L-008	12"	L/S	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 114	NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-18
B-J	RHB-BJ-1A	R-209	SR-090	MT 45°S	D-280 DM-281A	N/A CM-028	2510-4	N/A L-009	12"	L/S	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 113	NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-1
B-J	RHB-BJ-1A	R-272	SR-133	MT 0° 45°S	D-440 DM-446 DM-447	N/A CM-077 CM-078	2510-4	N/A L-004 L-004	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-1
B-J	RHB-BJ-1B	R-209	SR-090	MT 45°S	D-280 DM-281A	N/A CM-028	2510-4	N/A L-009	12"	L/S	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 113	NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-1
B-J	RHB-BJ-1B	R-272	SR-133	PT 0° 45°S	D-441 DM-448 DM-449	N/A CM-077 CM-078	2510-4	N/A L-004 L-004	12"	L/S	GE-PT-100 GE-UT-106 GE-UT-106	0 1 1	91-27 91-08,-37 91-03,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-2
B-J	RHB-BJ-2	R-272	SR-133	MT PT 0° 45°S	D-440 D-441 DM-442 DM-443	N/A N/A CM-077 CM-078	2510-4	N/A N/A L-004 L-004	24"	P-E	GE-MT-100 GE-PT-100 GE-UT-106 GE-UT-106	0 0 1 1	91-25 91-27 91-08,-37 91-08,-37	N/A N/A 114 114	NRI NRI NRI ROOT GEOMETRY
B-J	RHB-BJ-2A	R-272	SR-133	MT 0° 45°S	D-440 DM-444 DM-445	N/A CM-077 CM-078	2510-1	N/A L-004 L-004	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI, EXAM LIMITED TO 90.42%, FULL COVERAGE WITH N-460 NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-2



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 15 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-J	RHB-BJ-2A	R-250 R-273	SR-120 SR-134	MT 45°S 0°	D-405 DM-407 DM-451	N/A CM-062 CM-077	2510-1	N/A L-008 L-004	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-7
B-J	RHB-BJ-7	R-250 R-273	SR-120 SR-134	MT 45°S 0°	D-405 DM-406 DM-450	N/A CM-062 CM-077	2510-1	N/A L-008 L-004	24"	E-P	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI
B-J	RHB-BJ-7A	R-250 R-273	SR-120 SR-134	MT 45°S 0°	D-405 DM-408 DM-452	N/A CM-062 CM-077	2510-1	N/A L-008 L-004	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-7
B-J	RHB-BJ-7B	R-250 R-273	SR-120 SR-134	MT 0° 45°S	D-405 DM-453 DM-408	N/A CM-077 CM-062	2510-4	N/A L-004 L-008	12"	L/S	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 114 114	NRI NRI NRI NO NIS-1 CODE CREDIT FOR THIS EXAM, L/S PART OF RHB-BJ-7
B-J	RSA-BJ-1	R-097	SR-046	MT	D-133	N/A	2506-2	N/A	3"	WE-P	GE-MT-100	0	91-25	N/A	NRI
B-J	RSA-BJ-15	R-231	SR-106	MT	D-348	N/A	2506-2	N/A	3"	P-E	GE-MT-100	0	91-25	N/A	NRI
B-J	RSA-BJ-7	R-098	SR-047	MT	D-134	N/A	2506-2	N/A	3"	P-E	GE-MT-100	0	91-25	N/A	NRI
B-J	RVD-BJ-23	R-062	SR-036	PT	D-089	N/A	X2512-200	N/A	2"	P-V	GE-PT-100	0	91-27	N/A	NRI
B-J	RVD-BJ-25	R-060	SR-034	PT	D-087	N/A	X2512-200	N/A	2"	P-V	GE-PT-100	0	91-27	N/A	NRI
B-J	RVD-BJ-26	R-061	SR-035	PT	D-088	N/A	X2512-200	N/A	2"	T-P	GE-PT-100	0	91-27	N/A	NRI
B-J	RVD-BJ-31	R-059	SR-033	PT	D-086	N/A	X2512-200	N/A	2"	T-P	GE-PT-100	0	91-27	N/A	NRI
B-J	RVD-BJ-32	R-058	SR-032	PT	D-085	N/A	X2512-200	N/A	2"	P-V	GE-PT-100	0	91-27	N/A	NRI
B-J	RWA-BJ-6	R-054	SR-028	MT 45°S	D-065 DM-066	N/A CM-003	2509-1	N/A L-008	4"	T-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	2	NRI OD GEOMETRY



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 16 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-J	RWA-BJ-8	R-205	SR-086	MT 45° S	D-271 DM-272	N/A CM-024	2509-1	N/A L-004	4"	P-P	GE-MT-100 GE-UT-106	0 1	91-25 91-08,-37	N/A 2	NRI NRI
B-J	SLC-BJ-16	R-119	SR-052	PT	D-155	N/A	X2504-200	N/A	1.5"	P-V	GE-PT-100	0	91-27	N/A	NRI
B-J	SLC-BJ-17	R-120	SR-053	PT	D-156	N/A	X2504-200	N/A	1.5"	T-P	GE-PT-100	0	91-27	N/A	NRI
B-J	SLC-BJ-8	R-095	SR-044	PT	D-131	N/A	X2504-200	N/A	1.5"	P-T	GE-PT-100	0	91-27	N/A	NRI
B-J	SLC-BJ-9	R-096	SR-045	PT	D-132	N/A	X2504-200	N/A	1.5"	E-P	GE-PT-100	0	91-27	N/A	NRI
B-K-1	FWD-BK1-35	R-230	SR-105	MT	D-347	N/A	2509-2	N/A	N/A	ATTACH	GE-MT-100	0	91-25	N/A	NRI, EXAM LIMITED TO 60% COVERAGE
B-K-1	MSA-BK1-44	R-066	SR-037	MT	D-093	N/A	GE731E611- 4	N/A	N/A	SP-FH	GE-MT-100	0	91-25	N/A	NRI, EXAM LIMITED TO 62% COVERAGE
B-K-1	RR-BK1-3A	R-111	SR-051	PT	D-147	N/A	ISO-RL-A	N/A	N/A	LUG	GE-PT-100	0	91-27	N/A	NRI
B-K-1	RR-BK1-3B	R-110	SR-050	PT	D-146	N/A	ISO-RL-B	N/A	N/A	LUG	GE-PT-100	0	91-27	N/A	NRI
B-M-2	HPCI-CV-29CV- BM2	R-271	N/A	VT-3	D-439	N/A	2509-2	N/A	14"	VALVE	GE-VT-100	0	91-29,-36	N/A	SAT
B-M-2	RHR-MO-18- BM2	R-247	N/A	VT-3	D-371	N/A	2510-1	N/A	20"	VALVE BODY	GE-VT-100	0	91-29,-36	N/A	SAT
B-N-1	CS PIPING	R-302	N/A	VT-1	VTD-07 VTD-10	N/A	N/A	N/A	N/A	VES. INT.	VT-06	0	93-05	N/A	NRI NRI
B-N-1	CS SPARGERS	R-302	N/A	VT-1	VTD-83 VTD-85 VTD-87 VTD-89	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06	0 0 0 0	93-05 93-05 93-05 93-05	N/A	NRI NRI NRI NRI
B-N-1	FW SPARGERS	R-302	N/A	VT-1	VTD-64 VTD-70 VTD-73	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06	0 0 0	93-05 93-05 93-05	N/A	NRI NRI NRI
B-N-1	GUIDE RODS	R-302	N/A	VT-1	VTD-05	N/A	N/A	N/A	N/A	VES. INT.	VT-06	0	93-05	N/A	NRI





# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 17 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPP/D	CAL STD. NO.	COMMENTS
B-N-1	JET PUMPS	R-302	N/A	VT-1	VTD-14 VTD-19 VTD-24 VTD-29 VTD-34 VTD-39 VTD-44 VTD-49 VTD-54 VTD-59	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06	0 0 0 0 0 0 0 0 0 0	93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05	N/A	NRI NRI NRI NRI NRI NRI NRI NRI NRI NRI
B-N-1	SUR. SPEC HOLDERS	R-302	N/A	VT-1	VTD-80 VTD-81 VTD-82	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06	0 0 0	93-05 93-05 93-05	N/A	NRI NRI NRI
B-N-1	VES. INT. HEAD	R-233	N/A	VT-3	D-351	N/A	N/A	N/A	N/A	TOP HEAD	GE-VT-100	0	91-29-36	N/A	SAT
B-N-1	VES. INT. WALL	R-302	N/A	VT-1	VTD-16 VTD-23 VTD-26 VTD-33 VTD-38 VTD-43 VTD-48 VTD-53 VTD-56 VTD-63	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06	0 0 0 0 0 0 0 0 0 0	93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05	N/A	NRI NRI NRI NRI NRI NRI NRI NRI NRI NRI
B-N-2	DRYER HLD. DWN. BKT	R-234	N/A	VT-3	D-352	N/A	N/A	N/A	N/A	BRACKET	GE-VT-100	0	91-29-36	N/A	SAT
B-N-2	DRYER SUPPORT BRACKET	R-302	N/A	VT-1	VTD-102 VTD-103 VTD-104 VTD-105	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06	0 0 0 0	93-05 93-05 93-05 93-05	N/A	NRI NRI NRI NRI
B-N-2	GUIDE ROD BKTS	R-302	N/A	VT-1	VTD-05	N/A	N/A	N/A	N/A	VES. INT.	VT-06	0	93-05	N/A	NRI





# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 18 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PRIC NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS	
B-N-2	JET PUMP RISER BRACKETS	R-302	N/A	VT-1	VTD-14 VTD-19 VTD-24 VTD-29 VTD-34 VTD-39 VTD-44 VTD-49 VTD-54 VTD-59	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06	0 0 0 0 0 0 0 0 0 0	93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05	N/A	N/A	NRI NRI NRI NRI NRI NRI NRI NRI NRI NRI
B-O	CRD-02-27-1	R-032	SR-024	PT	D-032	N/A	GE197R576	N/A	N/A	CRD	GE-PT-100	0	91-27	N/A	NRI, EXAM LIMITED TO 50% COVERAGE	
B-O	CRD-26-51-1	R-034	SR-026	PT	D-034	N/A	GE197R576	N/A	N/A	CRD	GE-PT-100	0	91-27	N/A	NRI, EXAM LIMITED TO 50% COVERAGE	
B-O	CRD-30-03-1	R-033	SR-025	PT	D-033	N/A	GE197R576	N/A	N/A	CRD	GE-PT-100	0	91-27	N/A	NRI, EXAM LIMITED TO 50% COVERAGE	
B-P	Rx FEEDWATER	93-744	N/A	VT-2	93-744	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A N/A	N/A N/A	EXAMINED BY CNS	
B-P	Rx FEEDWATER	93-745	N/A	VT-2	93-745	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A N/A	N/A N/A	EXAMINED BY CNS	
B-P	Rx COOLANT	93-737	N/A	VT-2	93-737	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS	
B-P	Rx COOLANT	93-738	N/A	VT-2	93-738	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS	
B-P	Rx COOLANT	93-739	N/A	VT-2	93-739	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS	
B-P	Rx COOLANT	93-740	N/A	VT-2	93-740	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS	
B-P	Rx COOLANT	93-741	N/A	VT-2	93-741	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS	
B-P	Rx COOLANT	93-742	N/A	VT-2	93-742	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS	



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 19 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
B-P	Rx COOLANT	93-743	N/A	VT-2	93-743	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-746	N/A	VT-2	93-746	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-747	N/A	VT-2	93-747	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-748	N/A	VT-2	93-748	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-749	N/A	VT-2	93-749	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-750	N/A	VT-2	93-750	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-751	N/A	VT-2	93-751	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-752	N/A	VT-2	93-752	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-753	N/A	VT-2	93-753	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-754	N/A	VT-2	93-754	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-755	N/A	VT-2	93-755	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-756	N/A	VT-2	93-756	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-757	N/A	VT-2	93-757	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-758	N/A	VT-2	93-758	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-759	N/A	VT-2	93-759	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-760	N/A	VT-2	93-760	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-761	N/A	VT-2	93-761	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 20 of 28  
REVISION No. 0

ASME CAT	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
B-P	Rx COOLANT	93-762	N/A	VT-2	93-762	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-763	N/A	VT-2	93-763	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-764	N/A	VT-2	93-764	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-765	N/A	VT-2	93-765	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-899	N/A	VT-2	93-899	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-900	N/A	VT-2	93-900	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-901	N/A	VT-2	93-901	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-902	N/A	VT-2	93-902	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-903	N/A	VT-2	93-903	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-904	N/A	VT-2	93-904	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
B-P	Rx COOLANT	93-905	N/A	VT-2	93-905	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1 CNS 6.3.10.28	5 4	N/A	N/A	EXAMINED BY CNS
C-A	RHR-CA-3A	R-249	SR-119	0° 45°S	DM-403 DM-404	CM-060 CM-061	M-82454	L-004 L-004	62"	DR-DREB	GE-UT-301 GE-UT-301	0 0	91-13 91-13	106 106	NRI OD GEOMETRY EXAM LIMITED TO 88.20% COVERAGE
C-A	RHR-CA-6A	R-248	SR-118	0° 45°S	DM-401 DM-402	CM-060 CM-061	M-82454	L-004 L-004	46"	TS-CHS	GE-UT-301 GE-UT-301	0 0	91-13 91-13	106 106	NRI NRI, EXAM LIMITED TO 86.5% COVERAGE
C-B	RHR-CB-3A	R-266	SR-129	MT	D-427	N/A	M-82454	N/A	20"	NOZ-RP	GE-MT-100	0	91-25	N/A	NRI
C-B	RHR-CB-4A	R-167	SR-058	MT	D-207	N/A	SWECO M-8 2454	N/A	20"	RP-DR	GE-MT-100	0	91-25	N/A	NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 21 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD NO.	COMMENTS
C-C	CS-PA-A1	R-048	SR-031	MT PT	D-058 D-059	N/A	2602-2	N/A	N/A	SUPPORT	GE-MT-100 GE-PT-100	0 0	91-25 91-27	N/A	NRI NRI, EXAM LIMITED TO 98.55%, FULL COVERAGE WITH CODE CASE N-460.
C-C	CS-PB-A1	R-038	SR-022	MT	D-048	N/A	2602-1	N/A	N/A	SPRT	GE-MT-100	0	91-25	N/A	REPORTABLE LINEAR IND, EXAM LIMITED TO 98.55%, FULL COVERAGE WITH CODE CASE N-460.
		R-296	SR-142	MT PT	D-478 D-049	N/A N/A					GE-MT-100 GE-PT-100	0 0	91-25 91-27		POST REPAIR, NRI NRI
C-C	CSA-CC-1A	R-012	SR-012	MT	D-012	N/A	CB&I-69	N/A	16"	PC-P	GE-MT-100	0	91-25	N/A	NRI
C-C	CSB-CC-1A	R-015	SR-015	MT	D-015	N/A	CB&I-69	N/A	16"	PC-P	GE-MT-100	0	91-25	N/A	NRI
C-C	CSB-CC-WR2	R-014	SR-014	MT	D-014	N/A	KE-110.01	N/A	16"	S-P	GE-MT-100	0	91-25	N/A	NRI
C-C	HPIS-CC-1A	R-007	SR-007	MT	D-007	N/A	CB&I-69	N/A	16"	P-PC	GE-MT-100	0	91-25	N/A	NRI
C-C	RHB-CE1-2	R-186	SR-077	MT	D-250	N/A	2624-1	N/A	16"	E-L	GE-MT-100	0	91-25	N/A	NRI
C-C	RHR-PA-A1	R-197	SR-080	MT PT	D-261 D-262	N/A N/A	2624-1	N/A	N/A	SUPPORT	GE-MT-100 GE-PT-100	0 0	91-25 91-27	N/A	NRI
C-C	RHR-PB-A1	R-184	SR-075	MT PT	D-247 D-248	N/A N/A	2624-3C	N/A	N/A	SUPPORT	GE-MT-100 GE-PT-100	0 0	91-25 91-27	N/A	NRI NRI
C-C	RHR-PC-A1	R-196	SR-081	MT PT	D-263 D-264	N/A N/A	2624-1	N/A	N/A	SUPPORT	GE-MT-100 GE-PT-100	0 0	91-25 91-27	N/A	NRI
C-C	RHR-PD-A1	R-183	SR-074	MT PT	D-245 D-246	N/A N/A	2624-3C	N/A	N/A	SUPPORT	GE-MT-100 GE-PT-100	0 0	91-25 91-27	N/A	NRI NRI
C-C	RPA-CC-1A	R-009	SR-009	MT	D-009	N/A	CB&I-69	N/A	20"	P-PC	GE-MT-100	0	91-25	N/A	NRI
C-C	RPB-CC-1A	R-010	SR-010	MT	D-010	N/A	CB&I-69	N/A	20"	P-PC	GE-MT-100	0	91-25	N/A	NRI
C-C	RPC-CC-1A	R-011	SR-011	MT	D-011	N/A	CB&I-69	N/A	20"	P-PC	GE-MT-100	0	91-25	N/A	NRI
C-C	RPD-CC-1A	R-008	SR-008	MT	D-008	N/A	CB&I-69	N/A	20"	P-PC	GE-MT-100	0	91-25	N/A	NRI
C-C	RWA-CC-13	R-013	SR-013	MT	D-013	N/A	CB&I-69	N/A	6"	P-PC	GE-MT-100	0	91-25	N/A	NRI
C-F	CSA-CF-13	R-016	SR-016	MT	D-016	N/A	2603-1	N/A	14"	V-P	GE-MT-100	0	91-25	N/A	NRI
C-F	CSA-CF-28	R-018	SR-018	MT	D-018	N/A	2602-2	N/A	12"	E-V	GE-MT-100	0	91-25	N/A	NRI
C-F	CSA-CF-29	R-017	SR-017	MT	D-017	N/A	2602-2	N/A	12"	V-P	GE-MT-100	0	91-25	N/A	NRI
C-F	CSB-CF-12	R-006	SR-006	MT	D-006	N/A	2603-2	N/A	16"	P-RE	GE-MT-100	0	91-25	N/A	NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 22 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
C-F	CSB-CF-15	R-001	SR-001	MT	D-001	N/A	2603-2	N/A	14"	V-P	GE-MT-100	0	91-25	N/A	NRI
C-F	CSB-CF-16	R-002	SR-002	MT	D-002	N/A	2603-2	N/A	14"	P-V	GE-MT-100	0	91-25	N/A	NRI
C-F	CSB-CF-17	R-005	SR-005	MT	D-005	N/A	2603-2	N/A	14"	V-P	GE-MT-100	0	91-25	N/A	NRI
C-F	CSB-CF-33	R-004	SR-004	MT	D-004	N/A	2602-1	N/A	12"	E-V	GE-MT-100	0	91-25	N/A	NRI
C-F	CSB-CF-34	R-003	SR-003	MT	D-003	N/A	2602-1	N/A	12"	V-P	GE-MT-100	0	91-25	N/A	NRI
C-F	PSA-CF-10	R-075	SR-110	MT 0" 45°S	D-111 DM-113 DM-373	N/A CM-010 CM-011	2629-1	N/A L-004 L-004	10"	E-P	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 78 78	NRI NRI NRI
C-F	PSA-CF-15	R-269	SR-131	MT 0" 45°S	D-433 DM-434 DM-435	N/A CM-073 CM-074	2629-1	N/A L-008 L-008	10"	P-T	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 78 78	NRI NRI NRI
C-F	PSA-CF-6	R-074	SR-039	MT 0" 45°S	D-110 DM-112 DM-372	N/A CM-010 CM-011	2629-1	N/A L-004 L-004	10"	T-R	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 78 78	NRI NRI NRI
C-F	RAS-CF-13	R-085	SR-042	PT 0" 45°S	D-121 DM-187 DM-188	N/A CM-013 CM-014	2629-1	L-009 L-009	8"	P-E	GE-PT-100 GE-UT-106 GE-UT-106	0 1 1	91-27 91-08,-37 91-08,-37	N/A 73 73	NRI NRI NRI
C-F	RAS-CF-36	R-270	SR-132	MT 0" 45°S	D-438 DM-436 DM-437	N/A CM-075 CM-076	2629-1	N/A L-008 L-008	8"	R-P	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 73 73	NRI NRI NRI
C-F	RAW-CF-1	R-202	SR-085	MT	D-268	N/A	2625-2	N/A	20"	P-T	GE-MT-100	0	91-25	N/A	NRI
C-F	RAW-CF-41	R-185	SR-076	MT	D-249	N/A	2624-2	N/A	18"	E-E	GE-MT-100	0	91-25	N/A	NRI
C-F	RAW-CF-5	R-201	SR-084	MT	D-267	N/A	2625-2	N/A	20"	P-E	GE-MT-100	0	91-25	N/A	NRI
C-F	RAW-CF-69	R-083	SR-041	PT	D-119	N/A	2624-3A	N/A	16"	P-E	GE-PT-100	0	91-27	N/A	NRI
C-F	RHB-CF-10	R-196	SR-079	MT	D-260	N/A	2624-1	N/A	16"	E-P	GE-MT-100	0	91-25	N/A	NRI
C-F	RHG-CF-19	R-046	SR-023	MT	D-056	N/A	2624-2	N/A	10"	E-V	GE-MT-100	0	91-25	N/A	NRI
C-F	RHG-CF-5	R-086	SR-043	MT	D-122	N/A	2624-2	N/A	10"	E-V	GE-MT-100	0	91-25	N/A	NRI
C-F	RPC-CF-22	R-199	SR-082	MT	D-265	N/A	2624-1	N/A	16"	V-P	GE-MT-100	0	91-25	N/A	NRI
C-F	RSA-CF-1	R-037	SR-021	PT	D-047	N/A	2614-1	N/A	8"	T-F	GE-PT-100	0	91-27	N/A	NRI
C-F	RWA-CF-1	R-055	SR-027	MT 0" 45°S	D-067 DM-349 DM-068	N/A CM-004 CM-005	2629-2	N/A L-004 L-004	8"	CAP-P	GE-MT-100 GE-UT-106 GE-UT-106	0 1 1	91-25 91-08,-37 91-08,-37	N/A 73 73	NRI NRI NRI
C-F	SDN-CF-11	R-267	SR-130	MT	D-428	N/A	19-EP-1A-2	N/A	8"	P-P	GE-MT-100	0	91-25	N/A	NRI
C-F	SDN-CF-9	R-200	SR-083	MT	D-266	N/A	S-W13095	N/A	8"	CAP-P	GE-MT-100	0	91-25	N/A	NRI





# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 23 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
C-F	SDS-CF-6	R-182	SR-073	MT	D-244	N/A	S-W13095	N/A	8"	P-T	GE-MT-100	0	91-25	N/A	NRI
D-A	SLC	92-305	C2-3422	VT-2	92-305	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1	4	N/A	N/A	SAT; NON-SAFETY RELATED PORTIONS OF SYSTEM, NO LONGER IN ISI PROGRAM
D-A	VR-DA-1	R-128	N/A	VT-3	D-164	N/A	2628-1	N/A	N/A	LUG	GE-VT-100	0	91-29,-36	N/A	SAT
D-A	VR-DA-2	R-128	N/A	VT-3	D-164	N/A	2628-1	N/A	N/A	LUG	GE-VT-100	0	91-29,-36	N/A	SAT
D-A	VR-DA-3	R-140	N/A	VT-3	D-176	N/A	2628-1	N/A	N/A	PLATE	GE-VT-100	0	91-29,-36	N/A	SAT
D-B	HPCI	93-304	92-3421	VT-2	92-304	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1	4	N/A	N/A	SAT; INTERVAL 2 PERIOD 2 REQUIRED PRESSURE TEST; REF. NCR 92-133 AND LER 92-18
D-C	FPC	92-310	92-3440	VT-2	92-310	N/A	N/A	N/A	N/A	N/A	CNS 7.0.8.1	4	N/A	N/A	SAT; NON-SAFETY RELATED PORTIONS OF SYSTEM, NO LONGER IN ISI PROGRAM
F-A	CS-PB-S1	R-019	N/A	VT-3	D-019	N/A	2602-2	N/A	N/A	PUMP	GE-BG-100	0	91-29,-36	N/A	SAT
F-A	CS-PB-S1	R-029	N/A	VT-3	D-029	N/A	2602-1	N/A	N/A	PUMP SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	CSA-X-227A	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	CSB-WR-2	R-020	N/A	VT-3	D-020	N/A	KE-110.01	N/A	N/A	TORUS PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	CSB-X-227B	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	HPCI-BP-S1	R-021	N/A	VT-3	D-021	N/A	2611-6	N/A	N/A	PUMP	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	HPCI-MP-S1	R-028	N/A	VT-3	D-028	N/A	2609-1	N/A	N/A	PUMP	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	HPIS-X-226	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RCIC-MP-S1	R-027	N/A	VT-3	D-027	N/A	2621-1	N/A	N/A	PUMP	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHH-5A	R-063	N/A	VT-3	D-090	N/A	RH-H5A	N/A	N/A	RESTRNT	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHR-PA-S1	R-194	N/A	VT-3	D-258	N/A	2624-1	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 24 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
F-A	RHR-PB-S1	R-102	N/A	VT-3	D-138	N/A	2624-3C	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHR-PC-S1	R-195	N/A	VT-3	D-259	N/A	2624-1	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHR-PD-S1	R-102	N/A	VT-3	D-138	N/A	2624-3C	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHR-X-225A	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHR-X-225B	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHR-X-225C	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RHR-X-225D	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	RWA-X-224	R-084	N/A	VT-3	D-120	N/A	CB&I-69	N/A	N/A	PENT.	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	SLC-PA-S1	R-080	N/A	VT-3	D-116	N/A	2712-1	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-A	SLC-PB-S1	R-081	N/A	VT-3	D-117	N/A	2712-1	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	MSH-107	R-041	N/A	VT-3	D-051	N/A	2629-1	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	MSH-107A	R-040	N/A	VT-3	D-050	N/A	2629-1	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	MSH-111	R-106	N/A	VT-3	D-142	N/A	2629-1	N/A	N/A	SWAY BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	MSH-151	R-043	N/A	VT-3	D-053	N/A	MSH-151	N/A	N/A	STN	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	MSS-17	R-108	N/A	VT-3	D-144	N/A	2629-1	N/A	N/A	RIGID STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	MSS-18	R-109	N/A	VT-3	D-145	N/A	2629-1	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RHH-4B	R-104	N/A	VT-3	D-140	N/A	2625-1	N/A	N/A	BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RHH-6	R-053	N/A	VT-3	D-064	N/A	2626-1	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RHH-93	R-217	N/A	VT-3	D-291	N/A	2624-2	N/A	N/A	RESTRNT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RHH-93B	R-107	N/A	VT-3	D-143	N/A	2624-2	N/A	N/A	SWAY BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RHS-81	R-104	N/A	VT-3	D-140	N/A	2625-1	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RPV-STB-1A	R-301	N/A	VT-3	D-483	N/A	731E306	N/A	N/A	STAB. BRACKET	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RPV-STB-3A	R-277	N/A	VT-3	D-457	N/A	731E306	N/A	N/A	STAB. BRACKET	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	RPV-STB-4A	R-306	N/A	VT-3	D-484	N/A	731E306	N/A	N/A	STAB. BRACKET	GE-VT-100	0	91-29,-36	N/A	SAT
F-B	VRH-51A	R-134	N/A	VT-3	D-170	N/A	2628-1	N/A	N/A	BRACE	GE-VT-100	0	91-29,-36	N/A	SAT





# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 25 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
F-C	MSH-133	R-145	N/A	VT-3 VT-4	D-181	N/A	2506-1	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT, SEE MWR 93-1231
F-C	MSH-140	R-274	N/A	VT-3 VT-4	D-454	N/A	2614-2	N/A	N/A	VARI. SPRING	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	MSH-147	R-223	N/A	VT-3 VT-4	D-309	N/A	2506-2	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	MSH-152	R-044	N/A	VT-3 VT-4	D-054	N/A	MS-H152	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	MSH-98	R-216	N/A	VT-3 VT-4	D-290	N/A	2629-1	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	MSS-6	R-045	N/A	VT-3	D-055	N/A	MS-S6	N/A	N/A	RESTRNT	GE-VT-100	0	91-29,-36	N/A	SAT
F-C	MSS-8	R-218	N/A	VT-3	D-292	N/A	2629-1	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
F-C	RFH-54A	R-031	N/A	VT-3 VT-4	D-031	N/A	RF-H54A	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RFH-56	R-030	N/A	VT-3	D-030	N/A	RF-H56	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-C	RFH-62A	R-224	N/A	VT-3 VT-4	D-310	N/A	2509-2	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RFH-64	R-064	N/A	VT-3 VT-4	D-091	N/A	RF-H64	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RFH-64A	R-065	N/A	VT-3 VT-4	D-092	N/A	RF-H64A	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RFS-10	R-072	N/A	VT-3 VT-4	D-109	N/A	RF-S10	N/A	N/A	SHOCK ARRESTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHH-120	R-154	N/A	VT-3 VT-4	D-194	N/A	2510-4	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHH-120A	R-118	N/A	VT-3 VT-4	D-154	N/A	2510-4	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHH-122	R-114 R-297	N/A	VT-3 VT-4	D-150 D-479	N/A	2510-4	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2 2	91-29,-36 91-31,-34	N/A	SAT SAT
F-C	RHH-26	R-105	N/A	VT-3 VT-4	D-141	N/A	2624-1	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 26 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
F-C	RHH-28	R-193 R-298	N/A	VT-3 VT-4	D-257 D-480	N/A	2624-1	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT SAT
F-C	RHH-32A	R-155	N/A	VT-3 VT-4	D-195	N/A	2510-1	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHH-33	R-162	N/A	VT-3 VT-4	D-202	N/A	2510-1	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHH-35	R-153	N/A	VT-3 VT-4	D-193	N/A	2510-1	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-10	R-152	N/A	VT-3 VT-4	D-192	N/A	2510-4	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-3A	R-141	N/A	VT-3 VT-4	D-177	N/A	2626-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-5	R-113	N/A	VT-3 VT-4	D-149	N/A	2510-4	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-67	R-156	N/A	VT-3 VT-4	D-196	N/A	2510-1	N/A	N/A	SHOCK ARRESTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-68	R-157	N/A	VT-3 VT-4	D-197	N/A	2510-1	N/A	N/A	SHOCK ARRESTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-7	R-112	N/A	VT-3	D-148	N/A	2510-4	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
F-C	RHS-70	R-158	N/A	VT-3 VT-4	D-198	N/A	2510-1	N/A	N/A	SHOCK ARRESTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-71	R-160	N/A	VT-3 VT-4	D-200	N/A	2510-1	N/A	N/A	SHOCK ARESSTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-73	R-161	N/A	VT-3 VT-4	D-201	N/A	2510-1	N/A	N/A	SHOCK ARESSTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-8	R-150	N/A	VT-3 VT-4	D-190	N/A	2510-4	N/A	N/A	SHOCK ARRESTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-80	R-101	N/A	VT-3 VT-4	D-137	N/A	2625-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-8C	R-149	N/A	VT-3 VT-4	D-189	N/A	2510-4	N/A	N/A	SHOCK ARRESTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RHS-9	R-151	N/A	VT-3 VT-4	D-191	N/A	2510-4	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT



# GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 27 of 28  
REVISION No. G

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
F-C	RR-H6-A	R-126	N/A	VT-3 VT-4	D-162	N/A	ISO-RL-A	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RR-H6-B	R-126	N/A	VT-3 VT-4	D-162	N/A	ISO-RL-B	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RR-SS5-A	R-117	N/A	VT-3 VT-4	D-153	N/A	ISO-RL-A	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	RR-SS5-B	R-116	N/A	VT-3 VT-4	D-152	N/A	ISO-RL-B	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VR-61-17X	R-130	N/A	VT-3 VT-4	D-166	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VR-61-8X	R-135	N/A	VT-3 VT-4	D-171	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VR-61-8Z	R-142	N/A	VT-3 VT-4	D-178	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VRH-49	R-136	N/A	VT-3 VT-4	D-172	N/A	2628-1	N/A	N/A	CONST. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VRH-49A	R-125 R-289	N/A	VT-3 VT-4 VT-4	D-161 D-471	N/A	2628-1	N/A	N/A	VARI. SUPPORT	GE-UT-100 IV4-W812 IV4-W812	0 2 2	91-29,-36 91-31,-34 91-31,-34	N/A	SAT SAT SAT
F-C	VRH-50	R-137 R-290	N/A	VT-3 VT-4	D-173 D-472	N/A	2628-1	N/A	N/A	VARI. SUPPORT	GE-UT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT SAT
F-C	VRH-51	R-138 R-291	N/A	VT-3 VT-4	D-174 D-473	N/A	2628-1	N/A	N/A	SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT SAT
F-C	VRS-7	R-129	N/A	VT-3 VT-4	D-165	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VRS-70	R-131	N/A	VT-3 VT-4	D-167	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VRS-71	R-132	N/A	VT-3 VT-4	D-168	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT



## GE Nuclear Energy

COOPER NUCLEAR STATION  
EXAM COMPONENT INDEX  
SPRING 1993

PAGE 28 of 28  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
F-C	VRS-72	R-133	N/A	VT-3 VT-4	D-169	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VRS-73	R-144	N/A	VT-3 VT-4	D-180	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT 100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VRS-74	R-143	N/A	VT-3 VT-4	D-179	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
F-C	VRS-8	R-127	N/A	VT-3 VT-4	D-163	N/A	2628-1	N/A	N/A	MECH. SNUBBER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 1 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	CSA-BF-1	R-278	SR-137	PT 45°S  45°RL  60°RL	D-458 DA-016  DA-017  DA-018	N/A CA-015 CA-016 CA-017  CA-018	CNS-CS-4	N/A L-021 L-021 L-021  L-021	13.4"	SE-NOZ	GE-PT-100 GE-UT-209 GE-UT-209 GE-UT-209  GE-UT-209	0 1 1 1  1	93-27 93-03 93-03 93-03  93-03	N/A 51 61 121  121	NRI ID GEOMETRY NRI ACOUSTIC INTERFACE & ID GEOMETRY ACOUSTIC INTERFACE & ID GEOMETRY FOR GL88-01 AND ASME SECTION XI CREDIT.
AUG	CSA-PIPE	R-302	N/A	VT-1	VTD-107	N/A	N/A	N/A	N/A	VES. INT.	VT-06	0	93-05	N/A	NRI
AUG	CSA-SPARGER	R-302	N/A	VT-1	VTD-83 VTD-87	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06	0 0	93-05 93-05	N/A	NRI NR.
AUG	CSB-PIPE	R-302	N/A	VT-1	VTD-10	N/A	N/A	N/A	N/A	VES. INT.	VT-06	0	93-05	N/A	NRI
AUG	CSB-SPARGER	R-302	N/A	VT-1	VTD-85 VTD-89	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06	0 0	93-05 93-05	N/A	NRI NRI
AUG	CWA-CF-54	R-214	SR-095	45°S	DM-288	CM-031	2605-4	L-009	6"	P-E	GE-UT-102	2	91-05	48	NRI
AUG	FWD-BK1-42	R-168	SR-059	MT	D-208	N/A	2849-4	N/A	18"	E-L	GE-MT-100	0	91-25	N/A	NRI
AUG	FWD-BK1-50	R-229	SR-104	MT	D-346	N/A	2849-4	N/A	18"	E-LUG	GE-MT-100	0	91-25	N/A	NRI
AUG	JET PUMP RISER BRACKETS	R-302	N/A	VT-1	VTD-14 VTD-19 VTD-24 VTD-29 VTD-34 VTD-39 VTD-44 VTD-49 VTD-54 VTD-59	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06	0 0 0 0 0 0 0 0 0 0 0	93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05	N/A	NRI - SIL 551
AUG	JPB-01 THROUGH JPB-20	R-300	N/A	55°S	D-488	CM-087	N/A	L-020	N/A	JPB	GE-U', -500	0	93-07	119	NRI JET PUMP BEAMS



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 2 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	JPB-BF-1	R-220	SR-097	PT 45°S  45°RL  60°RL	D-302 DM-299  DM-300  DM-301	N/A CM-034 CM-035 CM-036 CM-037 CM-038 CM-039	CE232-241	N/A L-004 L-004 L-004 L-004 L-004 L-004	6"	SE-NOZ	GE-PT-100 GE-UT-105 GE-UT-105 GE-UT-105 GE-UT-105 GE-UT-105 GE-UT-105	0 2 2 2 2 2 2	91-27 91-07 91-07 91-07 91-07 91-07 91-07	N/A 109 107 109 107 109 107	NRI NRI NRI ID COUNTERBORE ID COUNTERBORE NRI NRI FOR GL88-01 AND ASME SECTION XI CREDIT.
AUG	MSA-AB	R-051	N/A	VT-1	D-062	N/A	GE731E671	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
AUG	MSB-AB	R-050	N/A	VT-1	D-061	N/A	GE731E671	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
AUG	MSC-AB	R-049	N/A	VT-1	D-060	N/A	GE731E671	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
AUG	MSD-AB	R-052	N/A	VT-1	D-063	N/A	GE731E671	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT
AUG	MSH-104	R-235	N/A	VT-3 VT-4	D-353	N/A	2629-1	N/A	N/A	CONSTNT SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR MSH-133
AUG	MSH-132	R-237	N/A	VT-3 VT-4	D-355	N/A	2506-1	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
AUG	MSS-22	R-236	N/A	VT-3 VT-4	D-354	N/A	2506-1	N/A	N/A	SHOCK ARRESTR	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
AUG	PRF-102	R-070 R-069	SR-038	VT-1 0"	D-104 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-103	R-070 R-069	SR-038	VT-1 0"	D-104 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-104	R-070 R-069	SR-038	VT-1 0"	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-108	R-070 R-069	SR-038	VT-1 0"	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-109	R-070 R-069	SR-038	VT-1 0"	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-11	R-070 R-069	SR-038	VT-1 0"	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-110	R-070 R-069	SR-038	VT-1 0"	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI





# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 3 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	PRF-111	R-070 R-069	SR-038	VT-1 0'	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-112	R-070 R-069	SR-038	VT-1 0'	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-115	R-070 R-069	SR-038	VT-1 0'	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-116	R-070 R-069	SR-038	VT-1 0'	D-104 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-117	R-070 R-069	SR-038	VT-1 0'	D-105 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-118	R-070 R-069	SR-038	VT-1 0'	D-105 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-119	R-070 R-069	SR-038	VT-1 0'	D-105 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-12	R-070 R-069	SR-038	VT-1 0'	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-120	R-070 R-069	SR-038	VT-1 0'	D-105 DM-099	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-13	R-070 R-069	SR-038	VT-1 0'	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-14	R-070 R-069	SR-038	VT-1 0'	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-16	R-070 R-069	SR-038	VT-1 0'	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-20	R-070 R-069	SR-038	VT-1 0'	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 4 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	PRF-22	R-070 R-069	SR-038	VT-1 0"	D-101 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-24	R-070 R-069	SR-038	VT-1 0"	D-101 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-27	R-070 R-069	SR-038	VT-1 0"	D-101 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-28	R-070 R-069	SR-038	VT-1 0"	D-101 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-3	R-070 R-069	SR-038	VT-1 0"	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-30	R-070 R-069	SR-038	VT-1 0"	D-101 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-32	R-070 R-069	SR-038	VT-1 0"	D-101 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-36	R-070 R-069	SR-038	VT-1 0"	D-101 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-38	R-070 R-069	SR-038	VT-1 0"	D-101 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-4	R-070 R-069	SR-038	VT-1 0"	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-40	R-070 R-069	SR-038	VT-1 0"	D-101 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-44	R-070 R-069	SR-038	VT-1 0"	D-101 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-46	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-48	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-51	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-53	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-55	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 5 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
AUG	PRF-59	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-6	R-070 R-069	SR-038	VT-1 0"	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-62	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-64	R-070 R-069	SR-038	VT-1 0"	D-102 DM-097	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-67	R-070 R-069	SR-038	VT-1 0"	D-102 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-70	R-070 R-069	SR-038	VT-1 0"	D-102 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-76	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-78	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-8	R-070 R-069	SR-038	VT-1 0"	D-100 DM-098	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-80	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-84	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-86	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-88	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-92	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-94	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-96	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI
AUG	PRF-99	R-070 R-069	SR-038	VT-1 0"	D-103 DM-096	N/A CM-009	730E878	N/A L-009	32.5"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRF-3	SAT NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 6 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD NO.	COMMENTS
AUG	PRG-11	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-14	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-16	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-19	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-22	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-24	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-27	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-3	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-30	R-071 R-067	SR-038	VT-1 0"	D-107 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-32	R-071 R-067	SR-038	VT-1 0"	D-107 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-35	R-071 R-067	SR-038	VT-1 0"	D-107 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-39	R-071 R-067	SR-038	VT-1 0"	D-107 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-42	R-071 R-067	SR-038	VT-1 0"	D-107 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-44	R-071 R-067	SR-038	VT-1 0"	D-107 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-47	R-071 R-067	SR-038	VT-1 0"	D-107 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-50	R-071 R-067	SR-038	VT-1 0"	D-107 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-52	R-071 R-067	SR-038	VT-1 0"	D-107 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 7 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL SHT RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	PRG-54	R-071 R-067	SR-038	VT-1 0"	D-107 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-55	R-071 R-067	SR-038	VT-1 0"	D-108 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-58	R-071 R-067	SR-038	VT-1 0"	D-108 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-59	R-071 R-067	SR-038	VT-1 0"	D-108 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-6	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-60	R-071 R-067	SR-038	VT-1 0"	D-108 DM-095	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	PRG-8	R-071 R-067	SR-038	VT-1 0"	D-106 DM-094	N/A CM-008	730E878	N/A L-009	11"	RGB-PED	IV1-W812 MUIB-NX12	3 1	1 N/A	N/A PRG-3	SAT NRI
AUG	RAD-BF-7	R-171	SR-062	PT 0" 45"S 45"S 45"RL	D-215 DM-216 DM-217 DM-218 DM-219	N/A CM-018 CM-017 CM-015 CM-016	CNS-RR-37	N/A L-009 L-009 L-009 L-009	24"	P-P	GE-PT-100 GE-UT-106 GE-UT-106 GE-UT-102 GE-UT-102	0 1 1 2 2	91-27 91-08,-37 91-08,-37 91-05 91-05	N/A 106 106 55 55	NRI NRI NRI NRI NRI FOR GL88-01 AND ASME SECTION XI CREDIT
AUG	RCA-BF-1	R-211	SR-098	PT 45"S  45"RL 60"RL	D-303 DM-304  DM-305 DM-306	N/A CM-040  CM-041 CM-042	CE232-241	N/A L-004  L-004 L-004	5"	N-CAP	GE-PT-100 GE-UT-105  GE-UT-105 GE-UT-105	0 2  2 2	91-27 91-07  91-07 91-07	N/A 20  20 20	NRI INSIDE SURFACE AND ROOT GEOMETRY ID ROOT GEOMETRY ID SURFACE GEOMETRY FOR GL88-01 AND ASME SECTION XI CREDIT
AUG	RCC-H-111	R-124	N/A	VT-3	D-160	N/A	2848-6	N/A	N/A	SUPPORT	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	RCC-H-144	R-122	N/A	VT-3	D-158	N/A	2848-8	N/A	N/A	BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	RCC-H-164	R-215	N/A	VT-3 VT-4	D-289	N/A	2848-1	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
AUG	RCC-H-LEF	R-091	N/A	VT-3	D-127	N/A	X2848-220	N/A	N/A	BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	RCC-H-LEFT	R-087	N/A	VT-3	D-123	N/A	X2848-220	N/A	N/A	BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	RCC-H-RIGHT	R-088	N/A	VT-3	D-124	N/A	X2848-220	N/A	N/A	BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	RCC-S-26	R-124	N/A	VT-3	D-160	N/A	2848-6	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT



COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 8 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	RFH-63A	R-238	N/A	VT-3 VT-4	D-356	N/A	2509-2	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT EXAMINED DUE TO FALSE SAMPLE EX- PANSION FOR MSH-133
AUG	RFH-70A	R-241	N/A	VT-3 VT-4	D-359	N/A	2509-1	N/A	N/A	CONSTNT SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR MSH-133
AUG	RFH-71	R-239	N/A	VT-3 VT-4	D-357	N/A	2509-1	N/A	N/A	CONSTNT SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	UNSAT, REF. MWR 93-2435 EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR MSH-133
AUG	RFH-71A	R-240	N/A	VT-3 VT-4	D-358	N/A	2509-1	N/A	N/A	CONSTNT SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR MSH-133
AUG	RHB-CF-3	R-187	SR-078	MT	D-251	N/A	2624-1	N/A	16"	P-E	GE-MT-100	0	91-25	N/A	NRI EXAM LIMITED TO 66% COVERAGE. NOT COUNTED FOR SECTION XI CODE CREDIT
AUG	RHH-121	R-115 R-310	N/A	VT-3 VT-4 VT-4	D-151 D-487	N/A	2510-4	N/A	N/A	N/A	GE-VT-100 IV4-W812 IV4-W812	0 2 2	91-29,-36 91-31,-34 91-31,-34	N/A	UNSAT, REF. MWR 93-2395 UNSAT, REF. INVALID EXAM; NOT FOR SECTION XI CODE CREDIT. SUPPORT NOT PROPERLY SET DURING DESIGN CHANGE.
AUG	RHR-CV-26CV	R-164	N/A	VT-1	D-204	N/A	2510-4	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT; INCLUDES CANOPY; BOLTING NOT PRESSURE RETAINING CAT. B-G-2
AUG	RHR-CV-27CV	R-163	N/A	VT-1	D-203	N/A	2510-3	N/A	N/A	BOLT	IV1-W812	3	1	N/A	SAT; INCLUDES CANOPY; BOLTING NOT PRESSURE RETAINING CAT. B-G-2





# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 9 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	RRF-BF-1	R-244	SR-136	PT 45°S 45°RL  60°RL	D-368 DA-013 DA-014  DA-015	N/A CA-012 CA-013  CA-014	CNSRR37	N/A L-021 L-021  L-021	14"	SE-NOZ	GE-PT-100 GE-UT-209 GE-UT-209  GE-UT-209	0 1 1  1	91-27 93-03 93-03  93-03	N/A 52 121 60 121	NRI ID ROOT GEOMETRY ACOUSTIC INTERFACE & SPOT LACK OF FUSION NRI FOR GL88-01 AND ASME SECTION XI CREDIT
AUG	RRG-BF-1	R-245	SR-135	PT 45°S 45°RL 60°RL	D-369 DA-010 DA-011 DA-012	N/A CA-009 CA-010 CA-011	CNSRR37	N/A L-021 L-021 L-021	14"	SE-NOZ	GE-PT-100 GE-UT-209 GE-UT-209 GE-UT-209	0 1 1 1	91-27 93-03 93-03 93-03	N/A 52/60 121 121	NRI ID ROOT GEOMETRY ACOUSTIC INTERFACE SPOT LACK OF FUSION FOR GL88-01 AND ASME SECTION XI CREDIT
AUG	RWCU-28	R-035	SR-019	45°RL	DM-035	CM-001	2605-1	L-008	4"	P-E	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-29	R-035	SR-019	45°S	DM-036	CM-001	2605-1	L-008	4"	E-P	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-29A	R-035	SR-019	60°R	DM-037	CM-001	2605-1	L-008	4"	P-T	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-30	R-035	SR-019	45°S	DM-038	CM-001	2605-1	L-008	4"	T-P	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-31	R-035	SR-019	45°S	DM-039	CM-001	2605-1	L-008	4"	P-E	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-32	R-035	SR-019	45°S	DM-040	CM-001	2605-1	L-008	4"	E-P	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-33	R-036	SR-020	45°S	DM-041	CM-002	2605-1	L-008	4"	P-E	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-34	R-036	SR-020	45°S	DM-042	CM-002	2605-1	L-008	4"	E-P	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-35	R-036	SR-020	45°S	DM-043	CM-002	2605-1	L-008	4"	P-E	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-36	R-036	SR-020	45°S	DM-044	CM-002	2605-1	L-008	4"	E-P	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-37	R-036	SR-020	45°S	DM-045	CM-002	2605-1	L-008	4"	P-E	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-38	R-036	SR-020	45°S	DM-046	CM-002	2605-1	L-008	4"	E-P	GE-UT-102	2	91-05	10	NRI; GL88-01
AUG	RWCU-63	R-213	SR-094	45°S	DM-287	CM-032	2605-2	L-009	4"	R-T	GE-UT-102	2	91-05	110	NRI; GL88-01
AUG	RWCU-76	R-212	SR-093	45°S	DM-296	CM-032	2605-2A	L-009	4"	P-N	GE-UT-102	2	91-05	110	NRI; GL88-01
AUG	RWCU-96	R-287	SR-140	45°S	DM-469	CM-082	2613-1	L-004	4"	P-V	GE-UT-102	2	91-05	18	PSI; NRI; GL88-01



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 10 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL. STD. NO.	COMMENTS
AUG	SHROUD HEAD BOLTS NO'S 1,4,5,6,7,8,9,12,13, 14,15,16,17, 18,19,20,21,22, 23,24,26,29,30, 32,36, 17,19	R-307	N/A	0" 2.25 MHz	DM-489	CM-084	BN-18-1	L-020	N/A	BOLTS	GE-UT-501	0	91-22	120	NRI NRI NRI NRI NRI NRI NRI
				0" 1 MHz	DM-489	CM-085		L-020			GE-UT-501	0	91-22	120	NRI
AUG	SIL 420	R-302	N/A	VT-1	VTD-15 VTD-20 VTD-25 VTD-30 VTD-35 VTD-40 VTD-45 VTD-50 VTD-55 VTD-60	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06	0 0 0 0 0 0 0 0 0 0	93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05	N/A	NRI NRI NRI NRI NRI NRI NRI NRI NRI NRI
AUG	SIL 462	R-302 R-303	N/A SR-303	VT-1 45°S 45°S 45°S 60°RL 45°S 60°RL 60°RL 60°RL 60°RL VT-1	VTD-01 DA-002 DA-003 DA-004 DA-005 DA-006 DA-007 DA-008 DA-009	N/A CA-001 CA-003 CA-002 CA-004 CA-008 CA-007 CA-005 CA-006	N/A	N/A L-021 L-021 L-021 L-021 L-021 L-021 L-021 L-021	N/A	AHC AHC AHC AHC AHC AHC AHC AHC AHC AHC	VT-06 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 VT-06	0 3 3 3 3 3 3 3 3 0	93-05 N/A N/A N/A N/A N/A N/A N/A N/A 93-05	N/A	NRI, 0° COVER NRI NRI NRI NRI NRI NRI NRI NRI NRI NRI, 180° COVER NRI NRI NRI NRI NRI NRI
		R-304	SR-304	45°S 45°S 45°S 60°RL 60°RL 60°RL	DA-020 DA-021 DA-022 DA-023 DA-024 DA-025 DA-026	CA-001 CA-003 CA-002 CA-007 CA-004 CA-005 CA-006		L-021 L-021 L-021 L-021 L-021 L-021 L-021		AHC AHC AHC AHC AHC AHC AHC	GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211 GE-UT-211	3 3 3 3 3 3 3	N/A N/A N/A N/A N/A N/A N/A	117 118 118 117 117 118 118	NRI NRI NRI NRI NRI NRI NRI



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 11 of 12  
REVISION No. 0

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO. NPPD	CAL STD. NO.	COMMENTS
AUG	SIL 465	R-302	N/A	VT-1	VTD-14 VTD-19 VTD-24 VTD-29 VTD-34 VTD-39 VTD-44 VTD-49 VTD-54 VTD-59	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06 VT-06	0 0 0 0 0 0 0 0 0 0	93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05 93-05	N/A	NRI NRI NRI NRI NRI NRI NRI NRI NRI NRI
AUG	SIL 289	R-302	N/A	VT-1	VTD-07 VTD-10	N/A	N/A	N/A	N/A	VES. INT.	VT-06 VT-06	0 0	93-05 93-05	N/A	NRI NRI
AUG	SIL 474	R-302	N/A	VT-1	VTD-106	N/A	N/A	N/A	N/A	VES. INT.	VT-06	0	93-05	N/A	NRI
AUG	STEAM SEPARATOR	R-302	N/A	VT-1	VTD-108	N/A	N/A	N/A	N/A	VES. INT.	VT-06	0	93-05	N/A	NRI
AUG	SW-H-214	R-079	N/A	VT-3 VT-4	D-115	N/A	SW-H214	N/A	N/A	HANGER	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT
AUG	SW-H-223	R-078	N/A	VT-3	D-114	N/A	SW-H223	N/A	N/A	LUG	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	SW-H-3	R-089	N/A	VT-3	D-125	N/A	2852-1	N/A	N/A	LUG	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	SW-H-4	R-090	N/A	VT-3	D-126	N/A	2852-1	N/A	N/A	LUG	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	SW-H-46	R-103	N/A	VT-3	D-139	N/A	2851-6	N/A	N/A	BRACE	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	SW-S-178A	R-042	N/A	VT-3	D-052	N/A	2851-1	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	SW-S-33A	R-192	N/A	VT-3	D-256	N/A	2851-5	N/A	N/A	STRUT	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	SW-S-51A	N/A	N/A	VT-3 VT-4	N/A N/A	N/A	SKE-SW277	N/A	N/A	SUPPORT	7.2.57 7.2.57	4 4	N/A N/A	N/A	SAT, REF MWR 91-1294 EXAMINED BY CNS
AUG	SW-S-69	R-103	N/A	VT-3	D-139	N/A	2852-19	N/A	N/A	RESTRNT	GE-VT-100	0	91-29,-36	N/A	SAT
AUG	VRH-45A	R-279	N/A	VT-3 VT-4	D-459	N/A	2628-2	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	UNSAT, REFERENCE NCR 93-119 EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR VRH-52



# GE Nuclear Energy

COOPER NUCLEAR STATION  
AUGMENTED EXAM COMPONENT INDEX  
SPRING 1993

PAGE 12 of 12  
REVISION No. C

ASME CAT.	COMPONENT NUMBER	REPORT	SUMMARY RECORD	EXAM TYPE	DATA SHEET	CAL. SHT. RECORD	DRAWING ISOMETRIC	LINEARITY SHEET	SIZE	CONF.	PROC. NUMBER	REV. NO.	FRR NO NPPD	CAL STD. NO.	COMMENTS
AUG	VRH-48	R-276 R-288	N/A	VT-3 VT-4 VT-4	D-456 D-470	N/A	2628-2	N/A	N/A	VARI. SUPPORT	GE-UT-100 IV4-W812 IV4-W812	0 2 2	91-29,-36 91-31,-34 91-31,-34	N/A	SAT SAT SAT EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR VRH-52
AUG	VRH-52	R-139 R-293	N/A	VT-3 VT-4	D-175 D-475	N/A	2628-1	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	INVALID EXAM - ADJACENT VALVE REMOVED FROM SYSTEM UNSAT UNSAT SEE MWR 93-1372
AUG	VRH-53	R-280	N/A	VT-3 VT-4	D-460	N/A	2628-5	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	UNSAT, REFERENCE NCR 93-111 EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR VRH-43
AUG	VRH-57	R-281	N/A	VT-3 VT-4	D-461	N/A	2628-6	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	UNSAT, REFERENCE NCR 93-118 EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR VRH-48
AUG	VRH-61	R-282	N/A	VT-3 VT-4	D-462	N/A	2628-3	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812	0 2	91-29,-36 91-31,-34	N/A	SAT EXAMINED DUE TO FALSE SAMPLE EXPANSION FOR VRH-48
AUG	VRH-63	R-283 R-292	N/A	VT-3 VT-4 VT-4	D-463 D-474	N/A	2628-4	N/A	N/A	VARI. SUPPORT	GE-VT-100 IV4-W812 IV4-W812	0 2 2	91-29,-36 91-31,-34 91-31,-34	N/A	SAT SAT SAT EXAMINED DUE TO FALSE EXPANSION FOR VRH-48

ENCLOSURE 2

to

Nebraska Public Power District

Letter CNSS937262

OWNER'S REPORT FOR REPAIRS AND REPLACEMENTS

FORM NIS-2

Cooper Nuclear Station

NRC Docket No. 50-298, DPR-46

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet      of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-V-462	Velan	2	93-2260	Replaced	No

7. Description of Work: Replaced valve.
8. Tests Conducted: Hydrostatic X Pneumatic       
Nominal Operating Pressure       
Other      Pressure 565 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Slattery Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: W. J. [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 2 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-H58	N/A	2	93-2260	Repaired	No

7. Description of Work: Removed RH-H58 from the system.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Sharity Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neil D. D...

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 3 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-V-106	Dresser Ind.	1	92-0884	Replaced	No
MS-V-107	Dresser Ind.	1	92-0884	Replaced	No
Piping Between MS-V-106 & 107	N/A	1	92-0884	Replaced	No

7. Description of Work: Replaced both valves and piping between valves.
8. Tests Conducted: Hydrostatic X Pneumatic \_\_\_\_\_  
Nominal Operating Pressure \_\_\_\_\_  
Other \_\_\_\_\_ Pressure 1110 psi Test Temp. 72 °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Shabety Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Wesley D. [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 4 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N71 Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-H242	N/A	2	93-0419	Replacement	No
MS-H261	N/A	2	93-0419	Replacement	No
MS-H241	N/A	2	93-0419	Replacement	No

7. Description of Work: Installed new supports.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Slabaty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neil Deane

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 5 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 68 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-RV-71ARV (1)	Target Rock	1	92-2738	Replacement	No
MS-RV-71FRV (2)	Target Rock	1	92-2743	Replacement	No
MS-RV-71GRV (3)	Target Rock	1	92-2744	Replacement	No
MS-RV-71HRV (4)	Target Rock	1	92-2745	Replacement	No
MS-RV-71CRV (3)	Target Rock	1	92-2740	Replacement	No

7. Description of Work: (1) Replaced one nut. (2) Replaced two studs and four nuts.  
(3) Replaced one stud. (4) Replaced three studs.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR Blahut* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neal Deaton*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 6 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 68 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-RV-71DRV (1)	Target Rock	1	92-2741	Replacement	No
MS-RV-71ERV (2)	Target Rock	1	92-2742	Replacement	No
MS-RV-71BRV (3)	Target Rock	1	92-2739	Replacement	No
MS-RV-71ARV (4)	Target Rock	1	92-2738	Replacement	No
MS-RV-70CRV (5)	Dresser	1	92-2779	Replacement	No

7. Description of Work: (1) Replaced three studs. (2) Replaced one stud. (3) Replaced six studs. (4) Replaced seven studs. (5) Replaced one stud and two nuts.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR DeLoach Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neil D. DeLoach

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 7 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brattleville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 68 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-RV-71GRV	Target Rock	1	92-2744	Replacement	No

7. Description of Work: Replaced eight bolts, four studs, and twelve nuts.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Shultz Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Paul D. Dutton

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 8 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Nuclear Boiler (NB)
5. (a) Applicable Construction Code: ASME Section III 19 65 Edition,  
Winter 1966 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RPV Lower Head	Combustion Engineering	1	93-2058	Repaired	No

7. Description of Work: Grind out indications in the outer attachment weld between the RPV lower head and the support skirt.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. Sherry* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul Brown*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 9 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-RV-13RV	Consolidated	2	93-1924	Repaired	No

7. Description of Work: Rotated CS-RV-13RV inlet flange by cutting and rewelding.
- 
8. Tests Conducted: Hydrostatic X Pneumatic     
Nominal Operating Pressure     
Other    Pressure 625 psi Test Temp. 72 °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Blahut Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, 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.

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Inspector's Signature: Neal D. Blahut

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 10 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-S76A	Grinnell	2	93-1761	Repaired	No

7. Description of Work: Restaked spherical bearing on snubber upper paddle.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

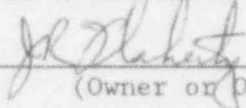
#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed:  Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: 

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 11 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 68 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-RV-70CRV	Dresser	1	92-2779	Repaired	No
MS-RV-70BRV	Dresser	1	92-2779	Repaired	No

7. Description of Work: Valves were refurbished.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *R. J. Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. Dutton*

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 12 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-M018	Anchor/Darling	1	93-1180	Repaired	No

7. Description of Work: RHR-MOV-M018 had a scratch in pressure seal area repaired and pits removed.
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR. Slaherty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neil Drabow*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 13 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 1968 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-MO18	Anchor/Darling	1	93-1180	Replacement	No

7. Description of Work: Valve stem replaced.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *MR. D. Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, 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.

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Inspector's Signature: *Paul D. Doolan*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 14 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: ASME Section III 19 86 Edition,  
1987 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-M018	Anchor/Darling	1	93-1180	Replacement	No

7. Description of Work: Valve's disc was replaced.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Olshansky* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neil D. ...*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 15 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-MO18 Original Disc (1)	Anchor/Darling	1	93-1180	Repaired	No
RHR-MOV-MO17 Original Disc (2)	Anchor/Darling	1	93-1421	Repaired	No

7. Description of Work: (1) Disc refaced and pits removed, (2) Disc refaced.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *[Signature]* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *[Signature]*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 16 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-MO17 (1)	Anchor/Darling	1	93-1421	Replacement	No
RHR-MOV-MO13B (2)	Anchor/Darling	2	93-0941	Replacement	No

7. Description of Work: Replaced valve disc and stem.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure (1) 29/(2) 13 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR. Slattery* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: *Art Baker*

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 17 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: High Pressure Coolant Injection (HPCI)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI-MOV-M015	Anchor Valve	1	93-1739	Replacement	No

7. Description of Work: Replaced bonnet bolts, stem, and disc.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 1020 psi Test Temp. Ambient°F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Liberty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Robert Brown

Commissions: NB #10352 Nebraska, N. I.  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 18 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: High Pressure Coolant Injection (HPCI)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI-MOV-M015	Anchor Valve	1	93-1739	Repaired	No

7. Description of Work: Bored bonnet, gland, and gland flange; removed pitting from bonnet pressure seal area, stuffing box, and back seat.
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR Zalesky* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neil D. Smith*

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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

1. Owner: Nebraska Public Power District Date: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 19 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 1968 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-RV-71FRV	Target Rock	1	92-2743	Replaced	No
MS-RV-71ARV	Target Rock	1	92-2738	Replaced	No

7. Description of Work: MS-RV-71FRV replaced with new valve (S/N 381). MS-RV-71ARV replaced with new valve (S/N 379).
8. Tests Conducted: Hydrostatic      Pneumatic       
Nominal Operating Pressure X  
Other      Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *R. J. Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: *Paul D. Dyer*

Commissions: NB #10352, Nebraska, N. I.  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 20 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 68 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-RV-71BRV	Target Rock	1	92-2739	Repaired	No
MS-RV-71CRV	Target Rock	1	92-2740	Repaired	No
MS-RV-71DRV	Target Rock	1	92-2741	Repaired	No
MS-RV-71ERV	Target Rock	1	92-2742	Repaired	No

7. Description of Work: Valves were refurbished.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: [Signature] Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1992 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 21 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NF 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-MOV-M077	Anchor/Darling	1	93-0810	Replacement	No

7. Description of Work: Replaced valve stem.
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Maherty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul J. ...*

Commissions: NB #10352, Nebraska, N. I.  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 22 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 1968 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-M013C	Anchor/Darling	2	93-1440	Replacement	No

7. Description of Work: Replaced valve disc.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 6.0 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Olshetty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: J. Paul Doherty

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 23 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Water Cleanup (RWCU)
5. (a) Applicable Construction Code: ANSI B16.34 19 81 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-CV-15CV	Anchor/Darling	1	93-1381	Replaced	No

7. Description of Work: Valve was replaced.
8. Tests Conducted Hydrostatic X Pneumatic     
Nominal Operating Pressure     
Other    Pressure 1140 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Red D. [unclear]*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 24 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: High Pressure Coolant Injection (HPCI)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI-CV-29CV (1)	Atwood & Morrill	1	93-0794	Repaired	No
HPCI-MOV-M014 (2)	Anchoi/Darling	2	92-2555	Repaired	No

7. Description of Work: (1) Removed pitting on bonnet. (2) Machined bonnet, backing ring, and packing pusher.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure (1) 1020 psi Test Temp. Ambient °F  
(2) 928

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Shabert Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: J. H. Shabert

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 25 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: High Pressure Coolant Injection (HPCI)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI-MOV-MO14	Anchor/Darling	2	92-2555	Replacement	No

7. Description of Work: Replaced valve disc.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 928 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Flaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Thad Dube

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 26 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B16.5 1968 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-MOV-M05A	Anchor/Darling	2	93-0808	Replacement	No

7. Description of Work: Replaced valve disc and two seats.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 300 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *John E. ...*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 27 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Standby Liquid Control (SLC)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC-RV-10RV	Dresser	2	92-3107	Replaced	No
SLC-RV-11RV	Dresser	2	92-3108	Replaced	No

7. Description of Work: Replaced valve.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1300 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR. [Signature]* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: *[Signature]*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 28 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-14RV (1)	Consolidated	2	93-0751	Replacement	No
RHR-RV-15RV (2)	Consolidated	2	93-0751	Replacement	No
RHR-RV-17RV (3)	Consolidated	2	93-0751	Replacement	No
RHR-RV-20RV (4)	Consolidated	2	93-0751	Replacement	No
RHR-RV-21RV (2)	Consolidated	2	93-0751	Replacement	No

7. Description of Work: Replaced four bolts and eight nuts on each valve.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure (1) 185 psi Test Temp. Ambient °F  
(2) 60 psi; (3) 50 psi; (4) 180 psi

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR. Mahanty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Robert D. Sato*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 29 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-18RV	Consolidated	2	93-0751	Replacement	No

7. Description of Work: Replaced nine bolts and eight nuts.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 150 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR Sherry* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neil D. Brown*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 30 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-RV-11RV (1)	Consolidated	2	93-0751	Replacement	No
CS-RV-13RV (2)	Consolidated	2	93-0751	Replacement	No

7. Description of Work: (1) Replaced eight bolts and sixteen nuts. (2) Replaced four bolts and eight nuts.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure (1) 300 psi Test Temp. Ambient °F  
(2) 307 psi

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Blahut Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neil D. [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 31 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Standby Liquid Control (SLC)
5. (a) Applicable Construction Code: ASME Section III 1977 Edition,  
Summer 1977 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC-SQBV-14B	Conax Corp.	1	92-3106	Replacement	No

7. Description of Work: Replaced valve insert, including trigger body.
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 1300 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: [Signature] Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 32 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-RV-11RV	Consolidated	2	93-0751	Replacement	No

7. Description of Work: Replaced valve guide pin.
8. Tests Conducted: Hydrostatic      Pneumatic       
Nominal Operating Pressure X  
Other      Pressure 300 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: J. J. Slaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neal D. [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 1 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Primary Containment (PC)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Penetration X213A Flange	Tioga	2	93-0751	Replacement	No
PC-V-61 Flanges	Tioga	2	93-0751	Replacement	No
Penetration X213A Blind Flange	Tioga	2	93-0751	Replacement	No

7. Description of Work: Replaced all bolts and nuts on the specified flanges.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 6.25 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. O'Leary Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Red J. Dutton

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 34 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: ASME Section III 19 83 Edition,  
Summer 1983 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-S8A	Pacific Scientific	1	93-1173	Replaced	No

7. Description of Work: Replaced with snubber S/N 407.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR. Mahanty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. Baker*

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 35 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Feedwater (RF)
5. (a) Applicable Construction Code: USAS B31.7 9 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RF-CV-13CV (1)	Anchor Valve	1	92-2719	Replacement	No
RF-CV-14CV (2)	Anchor Valve	1	92-2720	Replacement	No
RF-CV-15CV (3)	Anchor Valve	1	92-2721	Replacement	No
RF-CV-16CV (2)	Anchor Valve	1	92-2722	Replacement	No

7. Description of Work: Replaced hinge pin cover studs and nuts and the hinge pin covers for each valve.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure (1) 900 psi Test Temp. Ambient °F  
(2) 1020 psi (3) 1022 psi

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Shady* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *David A. Smith*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 36 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code: ASME Section III 19 86 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
14-11	A & G Eng.	1	93-0686	Replacement	No
26-23	A & G Eng.	1	93-0686	Replacement	No
34-27	A & G Eng.	1	93-0686	Replacement	No
18-39	A & G Eng.	1	93-0686	Replacement	No
14-39	A & G Eng.	1	93-0686	Replacement	No

7. Description of Work: Replaced eight bolts on each component.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Mahoney* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul Brown*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 37 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code: ASME Section III 19 86 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
38-11	A & G Eng.	1	93-0686	Replacement	No
10-39	A & G Eng.	1	93-0686	Replacement	No
14-15	A & G Eng.	1	93-0686	Replacement	No
18-03	A & G Eng.	1	93-0686	Replacement	No
42-35	A & G Eng.	1	93-0686	Replacement	No

7. Description of Work: Replaced eight bolts on each component.
8. Tests Conducted: Hydrostatic \_\_\_\_\_ Pneumatic \_\_\_\_\_  
Nominal Operating Pressure X  
Other \_\_\_\_\_ Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Shabaty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neil Brown

Commissions: NR #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 38 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code: ASME Section III 19 86 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
18-43	A & G Eng.	1	93-0686	Replacement	No
10-11	A & G Eng.	1	93-0686	Replacement	No

7. Description of Work: Replaced eight bolts on each component.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. Blahut* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *M. Blahut*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 39 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
14-11	General Electric	1	93-0686	Replaced	No
26-23	General Electric	1	93-0686	Replaced	No
34-27	General Electric	1	93-0686	Replaced	No
18-39	General Electric	1	93-0686	Replaced	No
14-39	General Electric	1	93-0686	Replaced	No

7. Description of Work: Replaced Control Rod Drive mechanisms.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remark. Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Shultz* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *W. J. Shultz*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 40 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Orga'nzation, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
38-11	General Electric	1	93-0686	Replaced	No
10-39	General Electric	1	93-0686	Replaced	No
14-15	General Electric	1	93-0686	Replaced	No
18-03	General Electric	1	93-0686	Replaced	No
42-35	General Electric	1	93-0686	Replaced	No

7. Description of Work: Replaced Control Rod Drive mechanisms.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR Maherty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Shel J. [unclear]*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 41 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
18-43	General Electric	1	93-0686	Replaced	No
10-11	General Electric	1	93-0686	Replaced	No

7. Description of Work: Replaced Control Rod Drive mechanisms.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Dechert Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 42 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Core Isolation Coolant (RCIC)
5. (a) Applicable Construction Code: ASME Section III 1986 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC-CV-12CV	Rockwell	2	93-1002	Replacement	No
RCIC-CV-12CV Upstream and Downstream Piping	N/A	2	93-1002	Replacement	No

7. Description of Work: Replaced valve and associated piping.
8. Tests Conducted: Hydrostatic X Pneumatic \_\_\_\_\_  
Nominal Operating Pressure \_\_\_\_\_  
Other \_\_\_\_\_ Pressure 190 psi Test Temp. Ambient °F  
16 psi (RCIC-CV-12CV Upstream Pipe)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Deherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Red Deherty

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 43 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: High Pressure Coolant Injection (HPCI)
5. (a) Applicable Construction Code: ASME Section III 19 83 Edition,  
Summer 1983 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI-CV-20CV	Jenkins Brothers	2	93-1002	Replaced	No

7. Description of Work: Replaced valve.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 100 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. Elaherty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Michael J. ...*

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 44 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping Between CS-RV-13RV and That Valve's Inlet Flange	N/A	2	93-0751	Repaired	No

7. Description of Work: Repaired gouge in pipe.
8. Tests Conducted: Hydrostatic X Pneumatic     
Nominal Operating Pressure     
Other    Pressure 780 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. Mahanty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neal J. [Signature]*

Commissions: NB #10352, Nebraska, N. I.  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 45 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-RV-13RV	Consolidated	2	93-0751	Replaced	No

7. Description of Work: Replaced valve. Inlet side was cut and rewelded.
8. Tests Conducted: Hydrostatic (1) Pneumatic         
Nominal Operating Pressure X  
Other (2) Pressure Inlet-307 psi Test Temp. Ambient °F
- (1) Inlet: 780 psig  
Temperature: Ambient
- (2) Outlet tested via open flow path test.

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: [Signature] Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 46 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-RV-13RV Discharge Flanges	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic         
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-307 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

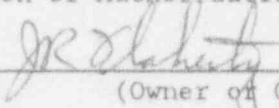
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed:  Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: 

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 47 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-RV-11RV Discharge Flanges	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic     
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-300 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Liberty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 48 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-10RV Discharge Flange	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flange by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic     
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-4 psi Test Temp. Ambient °F

(1) Open flow path test performed in lieu of hydro.

(2) Outlet Pressure Test: 58 psig Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Delaney Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 49 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-11RV Discharge Flange	Tioga	2	93-0751	Replaced	No
RHR-RV-13RV Discharge Flange	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
- 
8. Tests Conducted: Hydrostatic (1) Pneumatic         
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-6 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: [Signature] Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NE #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 50 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-12RV Discharge Flange	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flange by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic     
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-183 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *[Signature]* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *[Signature]*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 51 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-14RV Discharge Flanges	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic \_\_\_\_\_  
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-185 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR Slaherty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neal J. D...*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 52 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-15RV Discharge Flanges	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic \_\_\_\_\_  
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-60 psi Test Temp. Ambient °F
- (1) Open flow path test and hydro test; 675 psig, temperature: ambient.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: J. R. Mahoney Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Michael J. Doherty

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 53 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-17RV Discharge Flanges	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic \_\_\_\_\_  
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-50 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. M. Schetz* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. Dwyer*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 54 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-18RV Discharge Flange	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flange by welding.
- 
8. Tests Conducted: Hydrostatic (1) Pneumatic     
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-150 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Doherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 55 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-19RV Discharge Flange	Tioga	2	93-0751	Replaced	No
RHR-RV-21RV Discharge Flanges	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.

8. Tests Conducted: Hydrostatic (1) Pneumatic \_\_\_\_\_  
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-60 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Dechert Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: Neil Dechert

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 56 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-20RV Discharge Flanges	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic     
Nominal Operating Pressure X (Inlet)  
Other (2) Pressure Inlet-180 psi Test Temp. Ambient °F
- (1) Open flow path test performed in lieu of hydro.  
(2) Outlet Pressure Test: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: W. J. Shubert Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: W. J. Shubert

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 57 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Primary Containment (PC)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Flanges on Pipe Spool Piece Between Penetration X-213A and PC-V-61	Tioga	2	93-0751	Replaced	No

7. Description of Work: Replaced flanges by welding.
8. Tests Conducted: Hydrostatic (1) Pneumatic     
Nominal Operating Pressure X (Downstream of PC-V-61)  
Other (2) Pressure X-6.25 psi Test Temp. Ambient °F
- (1) Pressure: 91 psig  
Temperature: Ambient
- (2) Flange Pressure Tests: 58 psig  
Temperature: Ambient

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Elsherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Wes E. ...

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-4-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 58 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-S22	ITT Grinnell	2	93-0970	Replacement	No

7. Description of Work: Replaced reservoir clamp bolts and nuts.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Doherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Mark Doherty

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 59 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-P-B	Byron Jackson	2	93-0875	Repaired	No

7. Description of Work: Indication on pump base was ground out and welded.
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure     
Other N/A Pressure    psi Test Temp.    °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Slattery* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neal D. Dyer*

Commissions: NB #10352, Nebraska, N. I.  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 60 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Cases
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RO-250	N/A	2	93-0292	Replaced	No
RHR-RO-284	N/A	2	93-0292	Replaced	No

7. Description of Work: Restricting orifices were replaced.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 200 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Deherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Red. Deherty

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 61 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: ASME Section III 19 86 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-MO27A (1)	Anchor/Darling	1	93-0292	Replacement	No
RHR-MOV-MO27A (2)	Anchor/Darling	1	93-0292	Replacement	No

7. Description of Work: (1) Replaced disc, stem, and seat ring. (2) Replaced disc and stem a second time.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 200 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Flaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neil D. [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 62 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 1968 Edition,  
No Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-MO27A	Anchor/Darling	1	93-0292	Repaired	No

7. Description of Work: Ground out defects in the seat ring pocket and trim retaining groove. Machined sealing surface of bonnet and back seat area. Added a weld to bottom of seat ring. Scratches in pressure seal area on valve body and bonnet were machined/welded.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 200 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Schmitt* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul J. Schmitt*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 63 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-V-132	Dragon	2	93-0855	Replaced	No
Piping Upstream of RHR-V-132	N/A	2	93-0855	Replaced	No

7. Description of Work: Replaced piping and valve.
8. Tests Conducted: Hydrostatic X Pneumatic \_\_\_\_\_  
Nominal Operating Pressure \_\_\_\_\_  
Other \_\_\_\_\_ Pressure 565 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Slaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Paul D. Baker

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 64 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-H205	N/A	2	93-0730	Replacement	No

7. Description of Work: Replaced cotter pin on support.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Flaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Mark J. [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 65 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System. Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-H42A	Grinnell	2	93-0105	Replacement	No

7. Description of Work: Replaced load stud.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure     
Other N/A Pressure    psi Test Temp.    °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. ...*

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 66 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-S78B	Grinnell	2	92-3367	Replaced	No
RH-S59	Grinnell	2	92-3367	Replaced	No
RH-S52	Grinnell	2	92-3367	Replaced	No

7. Description of Work: Replaced snubbers listed.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: M. Slaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Paul L. Landon

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 67 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-S7A	Grinnell	2	92-3367	Replaced	No
MS-S81	Grinnell	2	92-3367	Replaced	No
MS-S84	Grinnell	2	92-3367	Replaced	No
MS-S84B & R	Grinnell	2	92-3367	Replaced	No
MS-S23	Grinnell	2	92-3367	Replaced	No

7. Description of Work: Replaced snubbers listed.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Mahoney* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neil D. Dwyer*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 68 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Water Cleanup (RWCU)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CU-S89	Grinnell	2	92-3367	Replaced	No

7. Description of Work: Replaced snubber.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: M. J. Liberty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: John D. Brown

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 69 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Core Spray (CS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980. Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-S6	Grinnell	2	92-3367	Replaced	No

7. Description of Work: Replaced snubber.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: [Signature] Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NE #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 70 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: ASME Section III 19 83 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-S65A	Pacific Scientific	2	92-3388	Replaced	No
RH-S14	Pacific Scientific	1	92-3388	Replaced	No

7. Description of Work: Replaced snubbers listed.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Shurtz* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *[Signature]*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 71 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 83 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-S149B	Grinnell	1	92-3388	Replaced	No
VR-S88	Grinnell	1	92-3388	Replaced	No
SS-B3	Grinnell	1	92-3388	Replaced	No
VR-58-12-Y	Grinnell	1	92-3388	Replaced	No
VR-H64D	Grinnell	1	93-3388	Replaced	No

7. Description of Work: Replaced snubbers listed.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *J. M. Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *W. L. Smith*

Commissions: NB #10352, Nebraska, N. I.  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 72 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 83 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
VR-S70B	Grinnell	1	92-3388	Replaced	No
VR-S10	Grinnell	1	92-3388	Replaced	No
VR-S4	Grinnell	1	92-3388	Replaced	No
BS-S1B & R	Grinnell	2	92-3388	Replaced	No
VR-S7B	Grinnell	1	92-3388	Replaced	No

7. Description of Work: Replaced snubbers listed.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *MR. Liberty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *MR. Liberty*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 73 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Feedwater (RF)
5. (a) Applicable Construction Code: ASME Section III 19 83 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RF-S14	Grinnell	1	92-3388	Replaced	No
RF-S17	Grinnell	1	92-3388	Replaced	No

7. Description of Work: Replaced snubbers listed.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Elaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Neil D. Dwyer

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 74 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Recirculation (RR)
5. (a) Applicable Construction Code: ASME Section III 19 83 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
SS-1A	Grinnell	1	92-3388	Replaced	No
SS-5B	Grinnell	1	92-3388	Replaced	No
SS-2A	Grinnell	1	92-3388	Replaced	No

7. Description of Work: Replaced snubbers listed.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Slaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Ad Davis

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 75 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 1969 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-H42A	Grinnell	2	92-3234	Repaired	No

7. Description of Work: Re-installed assembly nut.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *J. K. Blahut* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neil Egan*

Commissions: NB #10352, Nebraska, N. I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 76 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.1 19 67 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-H133	Burns & Roe	2	92-2411	Replaced	No

7. Description of Work: Replaced support.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Flaherty Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Paul Debra

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 77 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Water Cleanup (RWCU)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N-416 Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
3" Blind Flange Off RWCU 4" Return Line	Guyon Alloys Inc.	2	92-1376	Replaced	No

7. Description of Work: Replaced portion of RWCU pipe and blind flange that contained an indication.
8. Tests Conducted: Hydrostatic (1) Pneumatic         
Nominal Operating Pressure X  
Other        Pressure ≈1050 psi Test Temp. Ambient °F
- (1) Hydrostatic test deferred per Code Case N-416.

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR. Shultz* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Neil L. Shaw*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 78 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-CV-19CV	Anchor Valve	2	92-2409	Replacement	No

7. Description of Work: Replaced valve bonnet bolts.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure ≈150 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *John J. Schaefer* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. Buel*

Commissions: NB #10352, Nebraska, N. I.  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 79 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: ASME Section III 1986 Edition,  
1987 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-MO25A or RHR-MOV-MO25B Spare Disc (1) S/N 7830-4-F-128X	Anchor/Darling	1	93-2174	Replacement	No
RHR-MOV-MO27A or RHR-MOV-MO27B Spare Disc (2)	Anchor/Darling	1	93-0292	Repaired	No

7. Description of Work: (1) Replaced base metal and stellite. (2) Welded stellite onto disc.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement/repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Slahaty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: *Neal J. Slahaty*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 80 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Nuclear Boiler (NB)
5. (a) Applicable Construction Code: ASME Section III 19 68 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Reactor Pressure Vessel Nozzle N7 Flange	Combustion Engineering	1	92-3098	Replacement	No

7. Description of Work: Replaced eight studs and 16 nuts.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1020 psi Test Temp. 180 °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *JR. Flaherty* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. Smith*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 81 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N-416 Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-V-105	Dresser Ind.	1	93-2505	Replaced	No
Piping Downstream from MS-V-105 Up To The First Elbow	N/A	1	93-2505	Replaced	No

7. Description of Work: Replaced valve and piping.
8. Tests Conducted: Hydrostatic (1) Pneumatic         
Nominal Operating Pressure X (Downstream Weld)  
Other        Pressure X-1022 psi Test Temp. Ambient °F

(1) Upstream Weld Only: Pressure-1100 psig, Temperature-72°F  
Downstream weld hydro is deferred per Code Case N-416.

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Schuch* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. D...*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 12-14-93



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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 82 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-H270	N/A	1	93-2500	Replacement	No
Piping Downstream From The First Elbow Downstream of MS-V-105	N/A	1	93-2500	Replaced	No

7. Description of Work: Replaced piping and modified support.
8. Tests Conducted: Hydrostatic X Pneumatic \_\_\_\_\_  
Nominal Operating Pressure \_\_\_\_\_  
Other \_\_\_\_\_ Pressure 1110 psi Test Temp. 72 °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *J. J. Mahoney* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: *Paul D. Duffin*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 83 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-M025A	Anchor/Darling	1	93-2181	Replacement	No

7. Description of Work: Replaced valve disc.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 200 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *J. J. Slattery* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Robert D. Dube*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 84 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B16.5 1968 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-MOV-MO25A	Anchor/Darling	1	93-2181	Repaired	No

7. Description of Work: Machined bonnet, gland, stuffing box, back seat, and stem to remove pitting and other indications.
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 200 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR O'Leary Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Nal [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 85 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Core Isolation Coolant (RCIC)
5. (a) Applicable Construction Code: USAS B16.5 1968 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC-MOV-M0132	Crane Company	2	93-2386	Repaired	No

7. Description of Work: Bonnet to body seal weld cut and rewelded.
- 
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure X  
Other        Pressure 1200 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR Delaney Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Paul D. Dwyer

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 86 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-S9	Pacific Scientific	1	93-1634	Repaired	No
RH-S10	Pacific Scientific	1	93-1634	Repaired	No

7. Description of Work: Cut clamp stiffener plates and rewelded after adjustment.
8. Tests Conducted: Hydrostatic      Pneumatic       
Nominal Operating Pressure       
Other N/A Pressure      psi Test Temp.      °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

repair conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Slattery* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: *Paul D. ...*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93



**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 87 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Reactor Core Isolation Coolant (RCIC)
5. (a) Applicable Construction Code: USAS B16.5 19 68 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC-CV-21CV	Rockwell	2	92-2610	Replacement	No

7. Description of Work: Replaced bonnet bolts.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 13 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: JR. Shultz Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: Michael J. Sullivan

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 88 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 98, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Main Steam (MS)
5. (a) Applicable Construction Code: ASME Section III 19 68 Edition,  
Summer 1970 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Safety Relief Valve S/N 384	Target Rock	1	92-2738	Replacement	No

7. Description of Work: Valve seat replaced on spare valve.
8. Tests Conducted: Hydrostatic        Pneumatic         
Nominal Operating Pressure         
Other N/A Pressure        psi Test Temp.        °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for reporting.

(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

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

replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: [Signature] Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and employed by Hartford Steam Boiler I & I Company of Hartford, CT have inspected the components described in this Owner's Report during the period January 1, 1992 to August 31, 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature: [Signature]

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93

**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: October 5, 1993  
(Name)  
P.O. Box 499, Columbus, NE 68601 Sheet 89 of 89  
(Address)
2. Plant: Cooper Nuclear Station Unit: One  
(Name)  
P.O. Box 110, Brownville, NE 68321 N/A  
(Address) (Repair Organization, P.O. No., Job No., Etc.)
3. Work Performed By: Owner Type Code Symbol Stamp: N/A  
Same Authorization Date: N/A  
(Address) Expiration Date: N/A
4. Identification of System: Residual Heat Removal (RHR)
5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition,  
No Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  
1980, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Nuclear Class	Work Document Number	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-RV-11RV	Crosby Valve	2	93-0751	Replaced	No

7. Description of Work: Replaced valve.
- 
8. Tests Conducted: Hydrostatic    Pneumatic     
Nominal Operating Pressure X  
Other    Pressure 6 psi Test Temp. Ambient °F

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2" x 11", (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Code Case N-308, "Documentation of Repairs and Replacements of  
Components in Nuclear Power Plants", is invoked through the use of Form NIS-2 for  
reporting.  
(Applicable Manufacturer's Data Reports to be Attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
replacement conforms to the rules of the ASME Code, Section XI.  
(repair or replacement)

Type Code Symbol Stamp: N/A

Certification of Authorization No. N/A Expiration Date: N/A

Signed: *M. J. Schmitt* Engineering Manager Date: 10-12-93  
(Owner or Owner's Designee, Title)

#### 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 or Province of Nebraska and  
employed by Hartford Steam Boiler I & I Company of Hartford, CT have  
inspected the components described in this Owner's Report during the period  
January 1, 1992 to August 31, 1993, and state that to the best of my knowledge  
and belief, the Owner has performed examinations and taken corrective measures  
described in this Owner's Report in accordance with the requirements of the ASME  
Code, Section XI.

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

Inspector's Signature: *Neil D. Dwyer*

Commissions: NB #10352, Nebraska, N, I  
(National Board, State, Province, and Endorsements)

Date: 10-14-93