

Indiana Michigan
Power Company
500 Circle Drive
Buchanan, MI 49107 1395



September 18, 2003

AEP:NRC:3055
10 CFR 50.55a

Docket No.: 50-316

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop O-P1-17
Washington, DC 20555-0001

Donald C. Cook Nuclear Plant Unit 2
INSERVICE INSPECTION SUMMARY REPORT

The attachment to this letter provides a copy of the inservice inspection summary report for activities at Donald C. Cook Nuclear Plant Unit 2, State of Michigan, National Board Number 1 (Mich. M-324232-M), located in Bridgman, Michigan. The plant is owned by Indiana Michigan Power Company, P.O. Box 60, Fort Wayne, IN, 46801.

The unit's commercial service date is July 1, 1978, and the Authorized Code Inspector is Mr. T. A. Hines, who is employed by ABS Group, Inc. of Houston, Texas.

The examinations, tests, replacements, repairs performed, conditions observed, and corrective measures taken are summarized in the attached report. Inservice inspection activities were performed in accordance with the rules and requirements of the American Society of Mechanical Engineers' Code, Section XI, 1989, and 1992 Editions with the 1992 Addenda, as applicable.

There are no new commitments in this letter. Should you have any questions, please contact Mr. Brian A. McIntyre, Manager of Regulatory Affairs, at (269) 697-5086.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. A. Zwolinski', is written over the word 'Sincerely,'.

John A. Zwolinski
Director of Design Engineering and Regulatory Affairs

Attachment: Inservice Inspection Summary Report for the Donald C. Cook Nuclear Plant Unit 2, 2003, Unit 2 Cycle 14 Refueling Outage

RV/rdw

4047

c: K. D. Curry, Ft. Wayne AEP, w/o attachment
J. E. Dyer, NRC Region III
J. T. King, MPSC, w/o attachment
MDEQ – WHMD/HWRPS, w/o attachment
NRC Resident Inspector
M. A. Shuaibi, NRC Washington, DC

ATTACHMENT TO AEP:NRC:3055

**INSERVICE INSPECTION SUMMARY REPORT FOR THE DONALD C. COOK NUCLEAR
PLANT UNIT 2, 2003, UNIT 2 CYCLE 14 REFUELING OUTAGE**

INSERVICE INSPECTION SUMMARY REPORT
FOR THE
DONALD C. COOK NUCLEAR PLANT
UNIT 2

2003, Unit 2 Cycle 14 REFUELING OUTAGE

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2,
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978

Report for Inspection Period
From March 5, 2002 to June 19, 2003

Prepared by: Roy E. Hall Date: 9/16/03
Roy E. Hall
ISI Program Owner

Reviewed by: Carl Lane Date: 9/16/03
Carl Lane
Engineering Programs Supervisor

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978

Report of Inservice Inspections
From March 4, 2002 to June 19, 2003

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**INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2,
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978**

SECTION 1

INTRODUCTION

This report summarizes the Inservice Inspection activities performed at the Donald C. Cook Nuclear Plant, Unit 2, for the period of March 5, 2002 to June 19, 2003. This report addresses examinations and activities associated with the Unit 2 Cycle 13, 2002 Refueling Outage. This is the third and final refueling outage of the First Inspection Period of the Third Ten-Year Interval.

These activities were performed in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components. As of July 1, 1996, the third ten-year inspection interval began and the applicable code of record for ISI activities became ASME Section XI, 1989 Edition (no Addenda) and 1992 Edition w/92 Addenda as applicable.

The purpose of this report is to satisfy the requirements of IWA-6000 for the submittal of an Inservice Inspection Summary Report at the completion of each refueling outage. Examination and tests conducted since the preceding summary report are included in this report. Repairs and replacements are also included in this report per the requirements of the 1989 Edition of ASME Section XI, IWA-6220.

Contents of this report have been reviewed and verified correct with supporting documentation available at the plant for review if required.

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978

SECTION 2

NIS-1 INSERVICE INSPECTION SUMMARY REPORT

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Indiana Michigan Power Co., PO Box 60, Ft. Wayne, IN 46801
(Name and Address of Owners)
2. Plant: Donald C. Cook Nuclear Plant, One Cook Place, Bridgman, MI 49106
(Name and Address of Plant)
3. Plant Unit: Two
4. Owner Certification of Authorization (if required): N/A
5. Commercial Service Date: 07/01/78
6. National Board Number for Unit: 1 (Mich. M-324232-M)

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial Number	State or Province Number	National Board Number
Reactor Pressure Vessel	Chicago Bridge and Iron	T-1	M-324232-M	1
Steam Generator, 2-OME-3-4	Westinghouse/MK-Ferguson	1344 - Upper Assembly 3368G - Lower Assembly	M-324-237-M	68-76 - Upper 38 - Lower
Pressurizer 2-OME-4	Westinghouse	1231	M-324233-M	6894
East RHR HT. Exchanger 2-HE-17E	Engineers and Fabricators, INC	S-15586-C	-	-
Containment	Graver	-	-	-
Piping Sytems - RC, SI, CTS, CS, FW, MS	Power Systems Inc. and TUBECO	-	-	-
Pipe Supports	Grinnell	-	-	-

8. Examination Dates: March 5, 2002 to June 19, 2003

9. Inspection Period Identification: First

10. Inspection Interval Identification: Third

11. Applicable Edition of Section XI 1989 no Addenda & 1992 Addenda 92A

12. Date/Revision of Inspection Plan: 8/03 Rev. 1

13. Abstract of Examinations. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.

See Sections 3, 4, 5, 6, and 7

14. Abstract of Results of Examinations and Tests.

See Sections 3, 4, 5, 6 and 7

15. Abstract of Corrective Measures.

See Sections 3, 4, 5, 6, and 7

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

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date 9/5, 2003 Signed Indiana Michigan Power Co. By [Signature]
Owner

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 Michigan and employed by ABS Group, Inc. of Houston, TX have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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.

[Signature] Commissions MI 300471
Inspector's Signature National Board, State, Province, and Endorsements

Date 5 September 2003

**INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978**

SECTION 3

**ABSTRACT OF EXAMINATIONS, RESULTS, AND CORRECTIVE ACTIONS FOR
CLASS 1 AND CLASS 2 COMPONENTS**

Inservice examinations were performed during the period March 5, 2002 to June 19, 2003. This report addresses examinations and activities associated with the Third 10-Year Interval-First Inspection Period-Third Refueling Outage (U-2 Cycle 14). This is the final outage in the First Inspection Period of the Third Ten-Year Interval. All examinations were in accordance with the 1989 Edition (no Addenda) and 1992 Edition w/92 Addenda as applicable.

Examinations were scheduled and performed according to the Third Ten-Year Long Term Inservice Examination Plan for Class 1, 2, and 3 Systems and Components for Donald C. Cook Nuclear Plant, Unit 2. This is the currently approved ISI examination plan that identifies specific activities to be performed on a refueling outage basis.

Twenty-seven (27) ASME Class 1 and thirty-three (33) ASME Class 2 examinations were performed. A combination of Ultrasonic, Magnetic Particle, Liquid Penetrant and Visual examination methods were used. No inservice induced degradation was observed. However, there were minor indications in Steam Generator #24 girth welds and the pressurizer bottom head to shell weld that were related to original construction. All indications are acceptable and well within the ASME Section XI Code Allowable.

Examinations were performed and documented in response to NRC Order EA-03-009, "ISSUANCE OF ORDER ESTABLISHING INTERIM INSPECTION REQUIREMENTS FOR REACTOR PRESSURE VESSEL HEADS AT PRESSURIZED WATER REACTORS". All 78 Reactor Pressure Vessel Upper Head Penetrations and the Head vent (including the J-Groove welds) were examined using a combination of ultrasonic, surface, eddy current and visual techniques. There was no evidence of Leak Paths in the shrink-fit areas of the penetrations. Evidence of Craze Cracking was observed at Vessel Head Penetrations 43, 59, 64 and 74 on the ID surface of the Penetration tube base material. The Craze Cracking indications in Penetration number 43 and 74 were repaired (removed) by electron discharge machining. Welding was not required to ensure penetration tube integrity. The Craze Cracking in Penetration 43 was removed as a conservative measure. Craze Cracking indications in Vessel Head Penetration number 59 and 64 did not require removal.

Inspections of the top head included a bare metal visual examination by qualified VT-2 personnel. No signs of boric acid were noted. The top head was also examined using non-destructive testing from under the head for all of the penetrations. Four penetrations were found with flaws presumed to be primary water stress corrosion cracking (PWSCC) related. Following evaluation using MRP-55 Revision 1

methodology and crack growth rates, one of the penetrations needed repair because the flaws were calculated to exceed the acceptance criteria before the anticipated end of the next operating cycle. One additional penetration was repaired as a discretionary measure. Flaws on two penetrations were left in service. No signs of boric acid leaks were found on either the top or bottom heads.

System pressure tests did not reveal any degradation of the system pressure boundary or the installed bolting.

The following Code Cases were utilized during this reporting period:

N-307-3

N-416-1

N-509

N-533

N-616

N-627

N-491-1

N-533

Nondestructive examinations were performed by WesDyne, Framatome and Indiana Michigan Power (IMP) personnel in accordance with procedures approved for use at the Cook Nuclear Plant.

U2-C14
Inservice Inspection Report
Interval 3 / Period 1 / Outage 3

CLASS 1

CATEGORY B-A

ITEM: B1.30

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
001800	2-RPV-A	VESSEL TO FLANGE	RPV	REACTOR PRESSURE VESSEL AND CLOSURE HEAD

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0008	54-ISI-187-10	JO# 02196050-03 COMPLETED FROM FLANGE SURFACE FROM 90 TO 270 DEGREES (STUD HOLE LOCATIONS 28-54 AND 1).

ITEM: B1.40

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
001900	2-CHC-01	HEAD TO FLANGE	CHC	REACTOR PRESSURE VESSEL AND CLOSURE HEAD

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0014	54-ISI-130-38	JO# 02196050-05, LIMITATIONS DUE TO HEAD CONFIGURATION AND LIFTING LUGS. NRI. 98.6% COVERAGE ACHIEVED.
MT	U2C14-0014	54-ISI-270-39	JO# 02196050-05, LIMITATIONS DUE TO HEAD CONFIGURATION AND LIFTING LUGS. NRI. >95% COVERAGE ACHIEVED

CATEGORY B-B

ITEM: B2.11

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
006100	2-PRZ-11	LOWER SHELL TO LOWER HEAD	PRZ	PRESSURIZER

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	ISwT 006100	DCC-AUT-14-0-0	JO# 02192023-03, FOUR INDICATIONS IDENTIFIED AND FOUND ACCEPTABLE, REFERENCE ISwT INDICATION RESOLUTION RECORD 020001. THIS EXAMINATION INCLUDED RE-EXAMINATION OF INDICATIONS IDENTIFIED DURING THE 1997 U2-C12 RFO. THOSE INDICATIONS WERE FOUND TO BE BELOW RECORDING CRITERIA. THIS WELD WAS NOT EXAMINED 100%. ONLY THE PREVIOUS INDICATIONS FROM 1997 AND A PORTION OF THE WELD WAS FURTHER EXAMINED. REFERENCE REPORT FOR EXACT LOCATIONS. HOWEVER, THE CREDIT FOR asme xl WAS TAKEN DURING THE 1997 U2-C12 RFO.

ITEM: B2.40

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
011300	STM-24-01	LOWER HEAD TO TUBE SHEET	SG	STEAM GENERATOR NO. 24

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	ISwT 011300	DCC-AUT-14-0-0	JO# 02192013-03 WORK PERFORMED BY ISwT. ONE SMALL INDICATION IDENTIFIED AND ACCEPTABLE. SEE ISwT SUMMARY SHEET # 011300.

U2-C14
Inservice Inspection Report
Interval 3 / Period 1 / Outage 3

CLASS 1

CATEGORY B-G-1

ITEM: B6.10

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
004600	2-RPV-NUT	1 THROUGH 54	RPV	REACTOR PRESSURE VESSEL AND CLOSURE HEAD

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-1	U2C14-0019	54-ISI-366-05	JO# 02196050-01 EXAMINED ALL 54 NUTS USING THE VT-1 METHOD PER CODE CASE N-627 (ISIR-013) AS APPROVED BY NRC ON 4/4/03.

ITEM: B6.30

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
004500	2-RPV-STUD	1 THROUGH 54	RPV	REACTOR PRESSURE VESSEL AND CLOSURE HEAD

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0009	54-ISI-840-02	JO# 02196050-01. EXAMINED USING THE UT METHOD ONLY IN ACCORDANCE WITH CODE CASE N-307-3 (ISIR-011) AS APPROVED BY NRC ON 4/4/03. EXAMINED ALL 54 STUDS.

ITEM: B6.50

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
004800	2-RPV-WASHER	1 THROUGH 54	RPV	REACTOR PRESSURE VESSEL AND CLOSURE HEAD

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-1	U2C14-0020	54-ISI-366-05	JO# 02196050-01 COMPLETED EXAMINATION OF ALL 54 WASHERS. NRI

CATEGORY B-G-2

ITEM: B7.70

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
220750	SI-161-L3	FLANGE BOLTING	161	VALVE PRESSURE RETAINING BOLTING (2" AND LESS)

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-1	02196028-12	12-QHP-5050-NDE-006	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
220800	SI-166-3	FLANGE BOLTING	166	VALVE PRESSURE RETAINING BOLTING (2" AND LESS)

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-1	02196028-13	12-QHP-5050-NDE-006	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
221450	SI-158-L4	FLANGE BOLTING	158	VALVE PRESSURE RETAINING BOLTING (2" AND LESS)

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-1	02196028-14	12-QHP-5050-NDE-006	NRI

Attachment 1

U2-C14
Inservice Inspection Report
Interval 3 / Period 1 / Outage 3

CLASS 1**CATEGORY B-G-2****ITEM: B7.70**

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>
221500	SI-158-L1	FLANGE BOLTING

<u>System</u>	<u>System Description</u>
158	VALVE PRESSURE RETAINING BOLTING (2" AND LESS)

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-1	02196028-15	12-QHP-5050-NDE-006	NRI

CATEGORY B-J**ITEM: B9.21**

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>
058300	2-RC-34-30	PIPE TO BRANCH CONNECTION

<u>System</u>	<u>System Description</u>
RC	REACTOR COOLANT SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	02192056-01	12-QHP-5050-NDE-001	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>
112218	2-SI-67-01F	REDUCER TO PIPE

<u>System</u>	<u>System Description</u>
SI	SAFETY INJECTION SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	02196028-03	12-QHP-5050-NDE-001	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>
112219	2-SI-67-02S	PIPE TO ELBOW

<u>System</u>	<u>System Description</u>
SI	SAFETY INJECTION SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	02196028-04	12-QHP-5050-NDE-001	NRI

ITEM: B9.40

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>
122615	2-SI-569-39S	BEND TO ELBOW

<u>System</u>	<u>System Description</u>
SI	SAFETY INJECTION SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	02196028-05	12-QHP-5050-NDE-001	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>
122620	2-SI-569-40S	ELBOW TO PIPE

<u>System</u>	<u>System Description</u>
SI	SAFETY INJECTION SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	02196028-06	12-QHP-5050-NDE-001	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>
122625	2-SI-569-41S	PIPE TO ELBOW

<u>System</u>	<u>System Description</u>
SI	SAFETY INJECTION SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	02196028-08	12-QHP-5050-NDE-001	NRI

U2-C14
Inservice Inspection Report
Interval 3 / Period 1 / Outage 3

CLASS 1

CATEGORY B-M-2

ITEM: B12.50

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
224200	SV-45A	VALVE BODY INTERNAL SURFACE	45A	CROSBY SAFETY VALVES (6" NOMINAL)
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
VT-3	02192056-02	12-QHP-5050-NDE-006	NRI	

CATEGORY B-N-1

ITEM: B13.10

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
006010	RPV UPPER INTERNAL & SURFACES	AREAS ACCESSIBLE DURING NORMAL REFUELING	RPV UPPER	REACTOR PRESSURE VESSEL AND CLOSURE HEAD
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
VT-3	U2C14-0018	54-ISI-364-00	JO# 02196050-06 NRI	

CATEGORY F-A

ITEM: F1.10A

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
600010	2-GRC-R-619	PIPE SUPPORT COMPONENT	GRC	REACTOR COOLANT SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
VT-3	02192056-03	12-QHP-5050-NDE-006	SEVERAL INDICATIONS THAT WERE NOT INSERVICE INDUCED WERE OBSERVED THAT APPEAR TO BE RELATED TO ORIGINAL CONSTRUCTION. EsAT 03133053 WAS INITIATED TO DESIGN ENGINEERING FOR RESOLUTION. EXAMINATION IS ACCEPTABLE FOR ASME SECTION XI.	

ITEM: F1.10B

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
607000	2-GSI-R-666	PIPE SUPPORT COMPONENT	GSI	SAFETY INJECTION SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
VT-3	02196028-18	12-QHP-505-NDE-006	NRI	
<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
607610	2-ASI-R-5300	PIPE SUPPORT COMPONENT	ASI	SAFETY INJECTION SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
VT-3	02196028-19	12-QHP-505-NDE-006	NRI	
<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
608200	2-GSI-R-578	PIPE SUPPORT COMPONENT	GSI	SAFETY INJECTION SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
VT-3	02196028-20	12-QHP-505-NDE-006	NRI	

U2-C14
Inservice Inspection Report
Interval 3 / Period 1 / Outage 3

CLASS 1

CATEGORY F-A

ITEM: F1.10S

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
602800	2-GRC-S-562	PIPE RESTRAINT COMPONENT	GRC	REACTOR COOLANT SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02192056-05	12-QHP-5050-NDE-006	NRI. EXAMINATION PERFORMED IN CONJUNCTION WITH JO# R226063-02 FOR INACCESSIBLE SNUBBER INSPECTIONS.

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
604600	2-GRC-S-564	PIPE RESTRAINT COMPONENT	GRC	REACTOR COOLANT SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02192056-06	12-QHP-5050-NDE-006	NRI.

ITEM: F1.10WA

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
601500	2-GRC-R-504	PIPE SUPPORT COMPONENT	GRC	REACTOR COOLANT SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02192056-04	12-QHP-5050-NDE-006	INDICATION NOTED WITH GAPS, BUT THIS WAS NOT INSERVICE INDUCED. APPEARS TO BE ORIGINAL CONSTRUCTION ISSUE. ESAT # 03133001 WAS WRITTEN TO DESIGN ENGINEERING. EXAMINATION IS ACCEPTABLE FOR ASME SECTION XI.

ITEM: F1.40

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
600002	2-PRZ-SUPPORT	PRESSURIZER SUPPORT SKIRT	PRZ	PRESSURIZER

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02192023-04	12-QHP-5050-NDE-006	JO# 02192023-04, NRI.

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CATEGORY C-A

ITEM: C1.10

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
300340	STM-24-05	STUB BARREL TO SHELL	24	STEAM GENERATOR NO. 24 (FIGURE B-4)

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	ISwT 300340	DCC-AUT-14-0-0	JO# 02192013-06 WORK PERFORMED BY ISwT. NRI SEE ISwT SUMMARY SHEET # 300340.

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
300689	E-RHRHEX-1	FLANGE TO SHELL	RHRH EX	RHR HEAT EXCHANGER EAST (FIGURE B-9)

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0001	54-ISI-136-00	JO# 02192038-01. ACCEPTABLE GEOMETRIC INDICATIONS OBSERVED.

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CATEGORY C-A

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
300330	STM-24-04	TUBE SHEET TO STUB BARREL	SG	STEAM GENERATOR NO. 24

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	ISwT 300330	DCC-AUT-14-0-0	JO# 02192013-05 WORK PERFORMED BY ISwT. ONE GEOMETRIC. SEE ISwT SUMMARY SHEET # 300330.

CATEGORY C-B

ITEM: C2.21

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
300410	STM-24-MSN	SHELL TO NOZZLE	SG	STEAM GENERATOR NO. 24

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0012	54-ISI-130-08	JO# 02192013-07 WORK PERFORMED BY FRAMATOME. NRI
MT	U2C14-0012	54-ISI-270-39	JO# 02192013-07 WORK PERFORMED BY FRAMATOME. NRI

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
300430	STM-24-MSN-IRS	NOZZLE INNER RADIUS SECTION	SG	STEAM GENERATOR NO. 24

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0011	54-ISI-132-01	JO# 02192013-07 WORK PERFORMED BY FRAMATOME. NRI

CATEGORY C-C

ITEM: C3.20

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
312800	2-SI-79-05F-PL 1 THROUGH 4	PIPE LUG	SI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	02196028-17	12-QHP-5050-NDE-001	NRI

CATEGORY C-F-1

ITEM: C5.11

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
317310	2-CTS-13-04F	PIPE TO VALVE	CTS	CONTAINMENT SPRAY SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	U2C14-0007	54-ISI-230-40	JO# 02196045-01, FRAMATOME, NRI.
UT	U2C14-0007	54-ISI-836-04	JO# 02196045-01, FRAMATOME, NRI.

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CATEGORY C-F-1

ITEM: C5.11

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
317360	2-CTS-13-09S	TEE TO ELBOW	CTS	CONTAINMENT SPRAY SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	U2C14-0006	54-ISI-240-40	JO# 02196045-01, FRAMATOME, NRI.
UT	U2C14-0006	54-ISI-836-04	JO# 02196045-03, FRAMATOME, NRI.

ITEM: C5.21H

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
325500	2-SI-42-01S	FLANGE TO ELBOW	SI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	U2C14-0004	54-ISI-240-40	JO# 02196028-11 WORK PERFORMED BY FRAMATOME, NRI
UT	U2C14-0004	54-ISI-836-04	JO# 02196028-11 WORK PERFORMED BY FRAMATOME, NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
325520	2-SI-42-03F	PIPE TO VALVE	SI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	U2C14-0005	54-ISI-240-40	JO# 02196028-28 WORK PERFORMED BY FRAMATOME, NRI
UT	U2C14-0005	54-ISI-836-04	JO# 02196028-28 WORK PERFORMED BY FRAMATOME, NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
327050	2-SI-64-06S	PIPE TO REDUCER	SI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
PT	U2C14-0015	54-ISI-240-40	JO# 02196028-11 WORK PERFORMED BY FRAMATOME, NRI
UT	U2C14-0015	54-ISI-836-04	JO# 02196028-11 WORK PERFORMED BY FRAMATOME, NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
329100	2-SI-72-11S	PIPE TO ELBOW	SI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2-C14-0005	54-ISI-836-04	JO# 02196028-30 WORK PERFORMED BY FRAMATOME, NRI
PT	U2-C14-0005	54-ISI-240-40	JO# 02196028-30 WORK PERFORMED BY FRAMATOME, NRI
UT	U2C14-0003	54-ISI-836-04	JO# 02196028-30 WORK PERFORMED BY FRAMATOME, NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
330010	2-SI-73-02S	ELBOW TO PIPE	SI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0013	54-ISI-836-04	JO# 02196028-31 WORK PERFORMED BY FRAMATOME, NRI
PT	U2C14-0013	54-ISI-240-40	JO# 02196028-31 WORK PERFORMED BY FRAMATOME, NRI

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CATEGORY C-F-1

ITEM: C5.21H

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
331000	2-SI-81-01F	VALVE TO PIPE	SI	EMERGENCY CORE COOLING SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
PT	U2C14-0002	54-ISI-240-40	JO# 02196028-32 WORK PERFORMED BY FRAMATOME. NRI	
UT	U2C14-0002	54-ISI-836-04	JO# 02196028-32 WORK PERFORMED BY FRAMATOME. NRI	

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
339180	2-CS-794-19S	ELBOW TO PIPE	CS	CHEMICAL AND VOLUME CONTROL SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
PT	02196031-01	12-QHP-5050-NDE-001	JO# 02196031-01, NRI.	
<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
341070	2-CS-805-08S	ELBOW TO PIPE	CS	CHEMICAL AND VOLUME CONTROL SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
PT	02196031-02	12-QHP-5050-NDE-001	JO# 02196031-02, NRI.	

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
319700	2-FW-77-08S	PIPE TO ELBOW	FW	FEEDWATER SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
MT	U2C14-0010	54-ISI-835-04	JO# 02196036-04, FRAMATOME. NRI.	
UT	U2C14-0010	54-ISI-835-04	JO# 02196036-04, FRAMATOME. GEOMETRIC INDICATIONS FROM LARGE WELD ROOT COUNTERBORE. RT'D AND REVIEWED PREVIOUS CONSTRUCTION RT RECORDS AND FOUND ACCEPTABLE. NRI	
<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
320540	2-MS-89-07F	REDUCER TO PIPE	MS	MAIN STEAM SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
UT	U2C14-0016	54-ISI-124-02	JO# 02196038 NRI.	
MT	U2C14-0016	54-ISI-270-39	JO# 02196038 NRI.	
<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
321700	2-MS-94-16S	PIPE TO BRANCH CONNECTION	MS	MAIN STEAM SYSTEM
<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>	
MT	U2C14-0021	54-ISI-270-39	JO# 02196038-04 NRI.	
UT	U2C14-0021	54-ISI-124-02	JO# 02196038-04 NRI.	

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CATEGORY C-F-2

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
321880	2-MS-95-01F	NOZZLE TO ELBOW	MS	MAIN STEAM SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
UT	U2C14-0017	54-ISI-124-02	JO# 02192013-09 NRI.
MT	U2C14-0017	54-ISI-270-39	JO# 02192013-09 NRI.

CATEGORY F-A

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
762970	2-GSI-R-86	PIPE SUPPORT COMPONENT	GSI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196028-23	12-QHP-5050-NDE-006	SEVERAL INDICATIONS IDENTIFIED THAT ARE NOT INSERVICE INDUCED AND APPEAR RELATED TO ORIGINAL CONSTRUCTION. E-SAT #03125104 WAS WRITTEN BY PV FOR DESIGN ENGINEERING TO ADDRESS. EXAMINATION IS ACCEPTABLE PER ASME SECTION XI.

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
763200	2-GSI-L-26	PIPE SUPPORT COMPONENT	GSI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196028-25	12-QHP-505-NDE-006	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
764660	2-GCS-L-47	PIPE SUPPORT COMPONENT	GCS	CHEMICAL AND VOLUME CONTROL SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196031-04	12-QHP-5050-NDE-006	JO# 02196031-04, NRI.

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
762940	2-GSI-R-87	PIPE SUPPORT COMPONENT	GSI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196028-22	12-QHP-5050-NDE-006	SEVERAL INDICATIONS IDENTIFIED THAT ARE NOT INSERVICE INDUCED AND APPEAR RELATED TO ORIGINAL CONSTRUCTION. E-SAT #03125099 WAS WRITTEN BY PV FOR DESIGN ENGINEERING TO ADDRESS. EXAMINATION IS ACCEPTABLE PER ASME SECTION XI.

ITEM: F1.20S

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
752600	2-GFW-R-891	PIPE RESTRAINT COMPONENT	GFW	FEEDWATER SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196036-06	12-QHP-5050-NDE-006	U2-C14 2003 JO 02196036-06, Examination inadvertently rescheduled for U2-C14. Interval requirement was met during U2-C13.

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
763100	2-GSI-L-800	PIPE SUPPORT COMPONENT	GSI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196028-20	12-QHP-5050-NDE-006	SEVERAL INDICATIONS IDENTIFIED THAT ARE NOT INSERVICE INDUCED AND APPEAR RELATED TO ORIGINAL CONSTRUCTION. E-SAT #03125105 WAS WRITTEN BY PV FOR DESIGN ENGINEERING TO ADDRESS. EXAMINATION IS ACCEPTABLE PER ASME SECTION XI.

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
764710	2-GCS-L-50	PIPE SUPPORT COMPONENT	GCS	CHEMICAL AND VOLUME CONTROL SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196031-05	12-QHP-5050-NDE-006	JO# 02196031-05, NRI.

ITEM: F1.20WB

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
763830	2-GSI-L-832	PIPE SUPPORT COMPONENT	GSI	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196028-26	12-QHP-5050-NDE-006	NRI

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
764510	2-GCS-L-40	PIPE SUPPORT COMPONENT	GCS	CHEMICAL AND VOLUME CONTROL SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196031-03	12-QHP-5050-NDE-006	JO# 02196031-03, NRI.

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
764920	2-ACS-R-911	PIPE SUPPORT COMPONENT	ACS	CHEMICAL AND VOLUME CONTROL SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196031-06	12-QHP-5050-NDE-006	JO# 02196031-06, NRI.

ITEM: F1.20WS

<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
710515	2-GCTS-S-114	PIPE RESTRAINT COMPONENT	GCTS	EMERGENCY CORE COOLING SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196028-21	12-QHP-5050-NDE-006	NRI

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
755500	2-AFW-S4023	PIPE RESTRAINT COMPONENT	AFW	FEEDWATER SYSTEM

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02196036-01	12-QHP-5050-NDE-006	JO# 02196036-01 NRI.

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<u>Summary No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>System</u>	<u>System Description</u>
700004	SG-24-SNUBBERS 1 THRU 4	STEAM GENERATOR SNUBBERS	SG	STEAM GENERATORS

<u>Method</u>	<u>Report No.</u>	<u>Examination Procedure</u>	<u>Examination Remarks</u>
VT-3	02192013-04	12-QHP-505-NDE-006	JO# 02192013-04, NRI.

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978

SECTION 4

ABSTRACT OF SYSTEM PRESSURE TESTS RESULTS

Inservice Inspection System Pressure Tests were performed during the period March 5, 2002 to June 19, 2003. These tests were performed in accordance with the requirements of ASME Section XI, 1989 (no Addenda) and 1992 Editions with the 92 Addenda, Articles IWA-5000, IWB-5000, IWC-5000, IWD-5000, Code Case N-416-1, Code Case N-533 and N-616, as applicable.

Pressure tests for portions of systems identified below were performed during this outage. The remainder of the pressure tests for the period will be performed in conjunction with functional tests, inservice operation, and special procedures as applicable. No pressure boundary through-wall leaks were identified.

TEST	DESCRIPTION	DATE
R0226935-02	PERFORM DEPRESSURIZED WALKDOWN PER CODE CASE N-533	5/14/03
R0226935-01	PERFORM RCS VT-2 EXAMINATION @ NOP/NOT CONDITIONS	6/18/03

INDIANA MICHIGAN POWER COMPANY
COOK NUCLEAR PLANT, BRIDGMAN, MI
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SECTION 5

ABSTRACT OF SNUBBER EXAMINATION AND TEST RESULTS

Snubber examinations and functional testing were performed in conjunction with the maintenance procedures implemented to satisfy technical specification surveillance requirements. Provided is a summary of the as-found visual examinations and as-found functional test results.

Snubber VT-3 Visual Examinations

Snubber No.	Exam Date	Job Order No.	Results
2-GRC-S537	5/22/03	R226063	Acceptable
2-GRC-S538	5/22/03	R226063	Acceptable
2-GRC-S555	5/22/03	R226063	Acceptable
2-GRC-S562	5/22/03	R226063	Acceptable
2-GRC-S564	5/22/03	R226063	Acceptable
2-GRC-S566	5/22/03	R226063	Acceptable
2-GRC-S573	5/22/03	R226063	Acceptable
2-GRC-S575	5/22/03	R226063	Acceptable
2-GRC-S582	5/22/03	R226063	Acceptable
2-GRC-S592	5/22/03	R226063	Acceptable
2-GRC-S594	5/22/03	R226063	Acceptable
2-GRC-S596	5/24/03	R226063	Acceptable
2-GRC-S598	5/22/03	R226063	Acceptable
2-GRC-S599	5/22/03	R226063	Acceptable
2-GRC-S609	5/22/03	R226063	Acceptable
2-GRC-S611	5/22/03	R226063	Acceptable
2-GRC-S623	5/22/03	R226063	Acceptable
2-GRC-S624	5/23/03	R226063	Acceptable
2-GRC-S626	5/22/03	R226063	Acceptable
2-GRC-S629	5/22/03	R226063	Acceptable
2-GRC-S630	5/22/03	R226063	Acceptable
2-GRC-S632	5/27/03	R226063	Acceptable
2-GRC-S631	5/22/03	R226063	Acceptable
2-GRC-S587	5/22/03	R226063	Acceptable
2-AFW-S4023	5/17/03	R225955	Acceptable
2-AFW-S4024(L)	5/17/03	R225955	Acceptable
2-AFW-S4024(U)	5/17/03	R225955	Acceptable
2-AFW-S4021	5/17/03	R225955	Acceptable
2-AFW-S4028(L)	5/17/03	R225955	Acceptable
2-AFW-S4028(U)	5/17/03	R225955	Acceptable

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Snubber VT-3 Visual Examinations
(continued)

Snubber No.	Exam Date	Job Order No.	Results
2-AFW-S4027	5/17/03	R225955	Acceptable
2-AFW-S4025	5/17/03	R225955	Acceptable
2-AFW-S4031	5/17/03	R225955	Acceptable
2-AFW-S4032(L)	5/17/03	R225955	Acceptable
2-AFW-S4032(U)	5/17/03	R225955	Acceptable
2-AFW-S4029	5/17/03	R225955	Acceptable
2-AFW-S4036(L)	5/17/03	R225955	Acceptable
2-AFW-S4036(U)	5/17/03	R225955	Acceptable
2-AFW-S4035	5/17/03	R225955	Acceptable
2-AFW-S4033	5/17/03	R225955	Acceptable
2-GBD-S563(L)	2/12/03	R221494	Acceptable
2-GBD-S563(U)	2/12/03	R221494	Acceptable
2-GBD-S569(L)	2/12/03	R221494	Acceptable
2-GBD-S569(U)	2/13/03	R221494	Acceptable
2-GBD-S568	2/13/03	R221494	Acceptable
2-GCCW-S840	2/12/03	R224977	Acceptable
2-GCCW-S843	2/12/03	R224977	Acceptable
2-OME-3-1-HSD-3U	5/10/03	R225772	Acceptable
2-OME-3-1-HSD-3L	5/10/03	R225772	Acceptable
2-OME-3-1-HSD-1U	5/10/03	R225772	Acceptable
2-OME-3-1-HSD-1L	5/10/03	R225772	Acceptable
2-OME-3-2-HSD-3U	5/9/03	R225772	Acceptable
2-OME-3-2-HSD-3L	5/9/03	R225772	Acceptable
2-OME-3-2-HSD-1U	5/9/03	R225772	Acceptable
2-OME-3-2-HSD-1L	5/9/03	R225772	Acceptable
2-OME-3-3-HSD-3U	5/9/03	R225772	Acceptable
2-OME-3-3-HSD-3L	5/9/03	R225772	Acceptable
2-OME-3-3-HSD-1U	5/9/03	R225772	Acceptable
2-OME-3-3-HSD-1L	5/9/03	R225772	Acceptable
2-OME-3-4-HSD-3U	5/10/03	R225772	Acceptable
2-OME-3-4-HSD-3L	5/10/03	R225772	Acceptable
2-OME-3-4-HSD-1U	5/10/03	R225772	Acceptable
2-OME-3-4-HSD-1L	5/10/03	R225772	Acceptable

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978

Snubber Functional Tests

Snubber No.	Test Date	Job Order No.	Results	Remarks
2-AFW-S4023	5/23/03	R14612	Accept.	Small Bore Grinnell
2-AFW-S4024-U	5/24/03	R14614	Accept.	Small Bore Grinnell
2-AFW-S4024-L	5/23/03	R14613	Accept.	Small Bore Grinnell
2-AFW-S4025	5/24/03	R226233	Accept.	Small Bore Grinnell
2-GRC-S594	5/26/03	R14604	Accept.	Small Bore Grinnell
2-GRC-S623	5/25/03	R14607	Accept.	Small Bore Grinnell
2-GRC-S626	5/25/03	R14611	Accept.	Small Bore Grinnell
2-OME-3-1-HSD-1L	5/18/03	R100582	Accept.	Large Bore
2-OME-3-1-HSD-1U	5/17/03	R58780	Accept.	Large Bore
2-OME-3-1-HSD-3L	5/14/03	R99996	Accept.	Large Bore
2-OME-3-1-HSD-3U	5/15/03	R78800	Accept.	Large Bore

The minimum 14% Technical Specification required sample size consists of 7 small bore (Grinnell) and 3 large bore (Steam Generator) snubbers.

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978

SECTION 6

ABSTRACT OF EXAMINATIONS, RESULTS,
AND CORRECTIVE ACTIONS FOR
ASME SECTION XI, SUBSECTIONS IWE AND IWL

Containment Inservice Inspections

During the reporting period of March 5, 2002 to June 19, 2003, inservice inspections were performed on the Unit 2 Containment pressure retaining structure in accordance with Subsections IWE and IWL of ASME Section XI, 1992 Edition and 1992 Addenda, and 10 CFR 50.55a.

The following attachment provides a listing of the examinations performed, results, and corrective actions, if any were performed. A General Visual Examination was performed on all accessible surfaces of the Containment liner along with examinations performed in conjunction with coating repairs, and other repair/replacement activities.

An acceptance criteria providing the acceptable minimum thickness of the containment liner was established for the examination of the concrete-backed liner. The examination results were compared to the acceptance criteria. With the exception of the following, all results were within the established acceptance criteria. There were no areas that required to be classified as an Augmented Examination area in accordance with IWE-1240.

Linear Indications on Main Steam Containment Penetration 2-CPN-2

General visual examination of main steam containment penetration 2-CPN-2 identified a leak on the penetration cooler at the cooler to penetration weld joint. Supplemental examinations identified linear indications on the penetration flued head. (See attached)

- **Type of Degradation**
Corrosion Fatigue Cracking

- **Extent of Degradation**
Localized corrosion on one penetration forged head where a strap-on cooler is attached. The other MS penetrations with the similar strap-on coolers were surface tested by the liquid penetrant method and no other flaws were identified.

- **Conditions That Led To the Degradation**
Service induced localized corrosion fatigue is believed to be from heating up the steam lines before cutting in the Component Cooling coolers to the penetration combined with localized concentration of contaminants in a tight crevice created between the strap-on

cooler and the forged head joint. Localized residual stress from installation may have contributed to the initiation.

- **Evaluation**

A boat sample was removed at the location we believe is the origin of the flaw where the component cooling leak was discovered. Corrosion Fatigue was identified as the cause of the cracking. The cracking initiated at the strap-on cooler to forged penetration head weld joint. The flaw traversed axially along the forging penetration axis.

- **Corrective Actions**

Section XI repair was performed on the forged head and the cooler was removed.

- **Areas Susceptible to Similar Degradation**

The other 3 main steam line forged penetration heads where the strap-on cooler is attached were surface examined and no other flaws were identified. Additional examinations on the main steam cooler to penetration weld joints are tentatively scheduled for the next outage on Unit 1 and Unit 2.

- **Code Requirements**

The weld repair on 2-CPN-2 was performed in accordance with ASME Section XI IWA-4000. The repair method was evaluated to be suitable and the cause of failure was considered. This area will not be classified as an Augmented Examination area per the 1992 Edition and 1992 Addenda of ASME Section XI, Subsection IWE, paragraph IWE-1240. The cause (corrosion fatigue cracking) for accelerated degradation was eliminated with the removal of the cooler. In accordance with NRC Safety Evaluation TAC Number MB1249 and MB1250, and Code Relief CISIR-03, successive inspections (paragraph IWE-2420) are not required. The additional examinations required by IWE-2430 were performed with examination of all accessible surfaces specified in Examination Category E-A.

**Evaluation of IWE As-Found Condition
Examination Results**

Date	Unit	Job Order Activity	Examination Area	Exam Method	Indications/Conditions that led to Degradation (If rejectable)	Disposition*/Corr. Actions
5/14/2003	2	02234046-01	Unit 2 EL. 612 Airlock, 2-AIRLOCK-C612, Inner Door Handwheel Bolting, and Inner Door Interlock Bolting	VT-1	None	Accept
5/15/2003	2	R0224172-01	Containment Liner Plate and Penetrating Items - Zones: 2-598-1, 2-598-2, 2-598-3, 2-598-4, 2-598-5, 2-598-6, 2-598-7, 2-598-8, 2-598-10, 2-598-11, 2-598-12, 2-598-13, 2-598-14, 2-598-15, 2-598-16, 2-598-17, 2-598-18, 2-598-19, 2-598-20, 2-598-21, 2-598-22, 2-598-23, 2-598-24, 2-598-25, 2-598-26, 2-598-27, 2-612-2, 2-612-3, 2-612-4, 2-612-5, 2-612-6, 2-612-7, 2-612-8, 2-612-9, 2-612-10A, 2-612-10B, 2-612-11A, 2-612-11B, 2-612-12A, 2-612-12B, 2-612-13A, 2-612-13B, 2-612-14A, 2-612-14B, 2-612-15A, 2-612-15B, 2-612-16, 2-612-17, 2-612-18, 2-612-19, 2-612-20, 2-612-21, 2-612-22, 2-612-23, 2-612-24, 2-612-25A, 2-612-25B, 2-612-25C, 2-612-26A, 2-612-26B, 2-612-26C, 2-612-27A, 2-612-27B, 2-612-27C, 2-612-28A, 2-612-28B, 2-612-1, 2-650-1A, 2-650-1B, 2-650-1C, 2-650-2A, 2-650-2B, 2-650-2C, 2-650-3A, 2-650-3B, 2-650-3C, 2-650-4, 2-715-1A, 2-715-2A, 2-715-3, 2-745-001, 2-757-001, 2-PORT-01, 2-PORT-02, 2-PORT-03, 2-598-9	General Visual	CCW leak in 2-CPN-2 penetration cooling coil leaving brownish residue on both 2-CPN-2, and 2-CPN-7. Forged flued head had linear indications. See CR 03135064. Sodium Tetraborate residue noted.	Repairs/NDE performed on 2-CPN-2 per R/R Plans under JO 03135064.. See NIS-2.
5/15/2003	2	R234172-01	Containment Liner Plate Moisture Barrier - 2-598-MB	VT-3	Deposits and residue noted.	Accept

Program Owner: James M. Fitchuk Date: 9-5-03
JAMES M. FITCHUK

* References: 1) NED-1999-00004, Revision 0, "ISI Acceptance Criteria for Containment Liner Thickness, Sargent & Lundy Report No. SL-5360, Rev. 0"

**Evaluation of IWE As-Found Condition
Examination Results**

Date	Unit	Job Order Activity	Examination Area	Exam Method	Indications/Conditions that led to Degradation (if rejectable)	Disposition*/Corr. Actions
5/18/2003	2	R0227654-04	Unit 2 EL. 650 Airlock, 2-AIRLOCK-C650, Outer Door Bulkhead Bolting	VT-1	None	Accept
5/27/2003	2	R227654-06/09	Unit 2 EL. 650 Airlock, 2-AIRLOCK-C650, Equipment Hatch Bolting (1.25" X 10")	VT-1	None	Accept
6/6/2003	2	03135064-04	2-CPN-2, Extending out from liner to whip restraint. Junction of penetration and liner extending out 6" on liner for 360 deg.	VT-3	None	Accept
6/7/2003	2	03135064-04	2-CPN-2, Post paint removal Areas on flued head of penetration.	VT-3	Excavation area at approx. 8:00 which measures approx. 1 3/4" wide, and 2 1/2" long, and approx. 1/4" deep. Linear indication visible in excavation area which measure approx. 1" long, originating from the toe of the weld for the cooling coil. Line of pit like spots, above excavation running parallel to linear indication., which is approx. 1 3/4" long, and less than 1/32" deep.	Repairs/NDE performed on 2-CPN-2 per R/R Plans under JO 03135064.. See NIS-2.

Program Owner: James M. Fitchuk Date: 9-5-03
JAMES M. FITCHUK

* References: 1) NED-1999-00004, Revision 0, "ISI Acceptance Criteria for Containment Liner Thickness, Sargent & Lundy Report No. SL-5360, Rev. 0"

**Evaluation of IWE As-Found Condition
Examination Results**

Date	Unit	Job Order Activity	Examination Area	Exam Method	Indications/Conditions that led to Degradation (If rejectable)	Disposition*/Corr. Actions
6/10/2003	2	Transmittal # 03-233130 Report #900179-00	Westinghouse PT of 2-CPN-2 with the welded cooler removed.	PT	140 indications found - linear and rounded	Reject - Repairs/NDE performed on 2-CPN-2 per R/R Plans under JO 03135064.. See NIS-2.
6/11/2003	2	03135064-14	2-CPN-3 area from cooling coil out 4".	PT	None	Accept
6/11/2003	2	03135064-14	2-CPN-3 from cooling coil extending out to the whip restraint.	VT-3	None	Accept
6/11/2003	2	03135064-15	2-CPN-4 from cooling coil extending out to the whip restraint.	VT-3	2 arc strikes noted at 2:00 and 7:00. Measurements were 1 1/4" long and approx. 1/32" deep/1/4" long and 1/16" deep respectively. Acceptable per 12-MHP-5050-SPC-002.	Accept
6/11/2003	2	03135064-15	2-CPN-4 area from cooling coil out 4".	PT	2 arc strikes noted at 2:00 and 7:00. Measurements were 1 1/4" long and approx. 1/32" deep/1/4" long and 1/16" deep respectively. Acceptable per 12-MHP-5050-SPC-002.	Accept
6/11/2003	2	03135064-16	2-CPN-5 from cooling coil extending out to the whip restraint.	VT-3	None	Accept
6/11/2003	2	03135064-16	2-CPN-5 area from cooling coil out 4".	PT	None	Accept
6/11/2003	2	R234172-01	Containment Liner Plate above Ice Condenser, Zones 2-715-1B, 2-715-1C, 2-715-2B.	General Visual	None	Accept

Program Owner: James M. Fitchuk Date: 9-5-03
JAMES M. FITCHUK

* References: 1) NED-1999-00004, Revision 0, "ISI Acceptance Criteria for Containment Liner Thickness, Sargent & Lundy Report No. SL-5360, Rev. 0"

**INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978**

SECTION 7

**ABSTRACT OF EXAMINATIONS, RESULTS
AND CORRECTIVE ACTIONS FOR
STEAM GENERATOR
EDDY CURRENT EXAMINATIONS**

Eddy current inspections were not required for the Unit 2 C-14 Refueling Outage.

**INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978**

SECTION 8

NIS-2 REPAIR AND REPLACEMENT INDEX

U2C14 - Unit 2 2003 Refueling Outage

<i>Job Order</i>	<i>Description</i>	<i>Component</i>	<i>Code Class</i>
01053036 12	PERFORM WELD REPAIRS AS REQUIRED FROM INSPECTION	2-PP-50E	2
01241079 01	2-FW-132-3 ROTATE FOR BONNET REMOVAL/REPAIR LEAK	2-FW-132-3	2
01286016 01	2-MS-135-2, REPLACE VALVE TO STOP LEAKBY	2-MS-135-2	2
01364002 01	2-CS-319: REPAIR LEAKBY	2-CS-319	2
02036030 15	2-PW-275, REPLACE WELDED CHECK VALVE	2-PW-275	2
02055014 01	BORON/LEAK AT INLET FLANGE CONNECTION OF 2-SV-54	2-SV-54	2
02058038 12	PERFORM WELD REPAIRS AS REQUIRED FROM INSPECTION	2-PP-50W	2
02058038 13	INSTALL PIPING REMOVED TO SUPPORT CLADDING REPAIRS	2-CS-81	2
02114066 01	2-CS-307 REPAIR VALVE (SEE CR 02037008)	2-CS-307	2
02155032 01	2-NRV-151, REPLACE VALVE TRIM, OVERHAUL ACTUATOR	2-NRV-151	1
02155033 01	2-NRV-152, REPLACE VALVE TRIM, OVERHAUL ACTUATOR	2-NRV-152	1
02155034 01	2-NRV-153, REPLACE VALVE TRIM, OVERHUAL ACTUATOR	2-NRV-153	1
02199015 01	2-CS-328-L1, REPLACE VALVE CAGE ASSY. ISI INSPECT	2-CS-328-L1	1
02199019 01	2-CS-328-L4, REPLACE VALVE CAGE ASSY. ISI INSPECT	2-CS-328-L4	1
02199020 01	2-CS-329-L1, INSPECT/REPLACE VALVE CAGE	2-CS-329-L1	1
02199021 01	2-CS-329-L4, REPLACE VALVE CAGE ASSY. ISI INSPECT	2-CS-329-L4	1
02330023 01	2-MRV-212, REPAIR LEAK BY	2-MRV-212	2
03052011 01	2-MRV-211 REPAIR LEAK BY	2-MRV-211	2
03098014 03	2-QM0-225, DISASSEMBLE,INSPECT & REPAIR VALVE	2-QM0-225	2
03120051 01	2-MS-135-1, REPLACE VALVE TO STOP LEAKBY	2-MS-135-1	2
03147005 01	2-AFW-S4032-U: REPLACE LOAD PIN	2-AFW-S4032-U	2
03147005 02	2-AFW-S4031: INSTALL MISSING HARDWARE FOR LOAD PUN	2-AFW-S4031	2
03147005 03	2-AFW-S4021: REPLACE MISSING WASHER ON LOAD PIN	2-AFW-S4021	2
C0203258 01	2-WCR-915, REPLACE BONNET BOLTING.	2-WCR-915	2
R0014607 01	REMOVE/FUNCTIONAL TEST/INSTALL NEW SNUBBER.	2-GRC-S623	1
R0014612 02	REMOVE/FUNCTIONAL TEST/INSTALL NEW SNUBBER.	2-AFW-S4023	2

<i>Job Order</i>	<i>Description</i>	<i>Component</i>	<i>Code Class</i>
R0014613 01	REMOVE/FUNCTIONAL TEST/INSTALL NEW SNUBBER.	2-AFW-S4024-L	2
R0014614 01	REMOVE/FUNCTIONAL TEST/INSTALL NEW SNUBBER.	2-AFW-S4024-U	2
R0059297 01	2-SV-2A-2 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-2A-2	2
R0059299 01	2-SV-1B-3 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-1B-3	2
R0059324 01	2-SV-1A-1 REFURBISH VALVE	2-SV-1A-1	2
R0068986 01	2-SV-2A-4 REFURBISH VALVE	2-SV-2A-4	2
R0079885 01	2-SV-2A-1 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-2A-1	2
R0079894 01	2-SV-1B-2 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-1B-2	2
R0079895 01	2-SV-2A-3 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-2A-3	2
R0214378 01	2-SV-1A-3 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-1A-3	2
R0214381 01	2-SV-1B-4 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-1B-4	2
R0226233 01	REMOVE/FUNCTIONAL TEST/INSTALL NEW SNUBBER.	2-AFW-S4025	2
R0226763 05	2-SV-45A RMV/REPLACE VLV FOR SETPOINT TESTING	2-SV-45A	1
R0226766 05	2-SV-45C RMV/REPLACE VLV FOR SETPOINT TESTING	2-SV-45C	1
R0226770 06	2-SV-45B RMV & REPLACE VLV FOR SETPOINT TESTING	2-SV-45B	1
R0227620 03	OPEN/CLOSE, 2-ICM-306 VALVE ENCLOSURE MANWAY COVER	2-TK-87	2
R0233318 01	2-OME-3-1-HSD-3L, REBUILD SNUBBER	2-OME-3-1-HSD-3L	2
R0233452 01	2-SV-3-1 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-3-1	2
R0233453 01	2-SV-3-4 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-3-4	2
R0233454 01	2-SV-1A-4 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-1A-4	2
R0234195 01	2-SV-1A-2 REFURBISH VALVE	2-SV-1A-2	2
R0234196 01	2-SV-1B-1 REFURBISH MAIN STEAM SAFETY VALVE	2-SV-1B-1	2
02294028 22	2-OME-1 REPAIR REACTOR VESSEL HEAD PENETRATION	2-OME-1	1

**INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 2
BRIDGMAN, MI
COMMERCIAL SERVICE DATE 7-1-1978**

SECTION 9

NIS-2 REPAIR AND REPLACEMENT REPORTS

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-30-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 01053036-12
One Cook Place, Bridgman, MI 49106 Component# 2-PP-50E
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ASME 1968 DRAFT P & V CODE Ed.NO Add., Code
Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-PP-50E	N/A	N/A	EXISTING	N/A	REPAIRED	NO
FILLER MATERIAL E309 (1/8)	ASME # SFA 5.4	N/A	M & E # 30-044455 ASP # 17184	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT, P/T Pressure: psi Test Temperature F.

Description of Work: Repaired Pump cladding by welding.

Job Order/File: 01053036-12 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J A Hines Commissions MI #300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-04-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 01241079-01
One Cook Place, Bridgman, MI 49106 Component# 2-FW-132-3
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N416-1
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-FW-132-3						
BODY, VALVE	ASME SA216 GR WCB	ATWOOD & MORRILL	M&E # 30-034325 ASP # 15991	N/A	REPLACED	NO
COVER, VALVE	ASME SA675 GR 70	ATWOOD & MORRILL	M&E # 30-034343 ASP # 19240	N/A	REPLACED	NO
DISC, VALVE	ASME SA-675 GR 70	ATWOOD & MORRILL	M&E # 30-034386 ASP # 13610	N/A	REPLACED	NO
BEARING COVER VALVE	ASME SA-675 GR 70	ATWOOD & MORRILL	M&E # 30-034330 ASP # 19015	N/A	REPLACED	NO
ANTI ROTATION DEVICE	ASTM A36-90	N/A	M&E # 153150 ASP # 23052	N/A	REPLACED	NO
ROD, THREADED 1 IN 8 UN	ASME SA193 GR B7	N/A	M&E # 30-211640 ASP # 21077	N/A	REPLACED	NO

Job Order/File: 01241079-01 **ISI CLASS** 2

NUTS, 1 IN 8 UN	ASME SA194 GR-2H	N/A	M&E # 30-211910 ASP # 24470	N/A	REPLACED	NO
ROD, THREADED 1/2 IN 13 UN	ASME SA193 GR B7	N/A	M&E # 30-211590 ASP # 27219	N/A	REPLACED	NO
NUTS, 1/2 IN 13 UN	ASME SA194 GR-2H	N/A	M&E # 30-034410 ASP # 27606	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT, PT/MT, RT, VT-2 Pressure: psi Test Temperature F.

Description of Work: Replaced VALVE by welding. Valve was assembled using spare parts. New Valve DISC was modified by welding; adding Anti-Rotation Device (2- ASTM A36 Steel Bars) per EE2003-0023.

Job Order/File: 01241079-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Hines Commissions MI#300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-04-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 01286016-01
One Cook Place, Bridgman, MI 49106 Component# 2-MS-135-2
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N416-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-MS-135-2						
VALVE	ASME SA105 VALVE BODY	VOGT	M&E # 30-044248 ASP # 19582	N/A	REPLACED	NO
LARGE PIPE SUB ASSEMBLY 2-MS-692						
PIPE	ASME SA106 GR B	N/A	M&E # 30-014981 ASP # 24154	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT, PT, VT-2 Pressure: psi Test Temperature F.

Job Order/File: 01286016-01 ISI CLASS 2

Description of Work: Replaced VALVE and associated pipe by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Davis
Inspector's Signature

Commissions MI#300471
National Board, State, Province, Endorsements

Date: 07/14 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-27-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 01364002-01
One Cook Place, Bridgman, MI 49106 Component# 2-CS-319
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-CS-319						
DISC, VALVE	ASME SA182 GR F316	VELAN	M&E # 30-43940 ASP # 15181	N/A	REPLACED	NO
RETAINING RING, DISC	ASME SA564 GR 630	VELAN	M&E # 30-044064 ASP # 14666	N/A	REPLACED	NO
STEM, VALVE	ASME SA564 GR 630	VELAN	M&E # 30-044094 ASP # 15261	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Disc, Disc Retaining Ring with new.

Job Order/File: 01364002-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Bewayne Timmons Maint. Welding Supervisor Date 7-12-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

JA Hines Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-04-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02036030-15
One Cook Place, Bridgman, MI 49106 Component# 2-PW-275
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: PW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N416-1
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-PW-275						
VALVE S/N A3742	ASME SA351 GR CF8M TP 316 VALVE BODY	WALWORTH/ ALOYCO	M&E # 00-035716 ASP # 27749 P.O. # 2-970-7	1982	REPLACED	YES
LARGE PIPE SUB ASSEMBLY 2-PW-22						
PIPE	ASME SA312 TP.304	N/A	M&E # 00-036365 ASP # 27758 P.O. # 30653	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT, PT, RT, VT-2 Pressure: psi Test Temperature F.

Job Order/File: 02036030-15 ISI CLASS 2

Description of Work: Replaced VALVE and Associated pipe by welding.

Manufacturer FORM NVP-1 attached for valve.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ NONE

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

Signed: Dewayne Timmons
Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.


D. Timmons Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/14 — 2003

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

- | | | | | | | | |
|------|---------|-------|---|---------|---|------|------|
| (1) | N376-SP | A3742 | - | D-52567 | 3 | 1373 | 1982 |
| (2) | | | | Rev. I | | | |
| (3) | | | | | | | |
| (4) | | | | | | | |
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| (10) | | | | | | | |

Initials ep Date 10/14/83



* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks Heat # 's
(c) Bolting			
Studs	SA-453, Gr 660B	REC Corporation	14730
Nuts	SA-194, Gr 8	REC Corporation	825138
(d) Other Parts			

9. Hydrostatic test 425 psi. Disk Differential test pressure 275 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1, Edition 1974.
 Addenda Winter 1974 (Date), Code Case No. 1635-1, Date Jan 7, 1983.
 Signed Walworth Company/Aloyco Plant by Frank Truppo (N Certificate Holder) Manager O.A.
 Our ASME Certificate of Authorization No. N-2076 to use the N symbol expires 4-7-84 (Date).

CERTIFICATION OF DESIGN

Design information on file at Walworth Company/Aloyco Plant, Linden, New Jersey 1400 W. Elizabeth Ave.
 Stress analysis report (Class 1 only) on file at Not required

Design specifications certified by (1) Naranjan P. Goel
 PE State Kansas Reg. No. 7118
 Stress analysis certified by (1) Not required
 PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New Jersey and employed by HSB I & I Co. of Hartford, Conn. have inspected the pump, or valve, described in this Data Report on JAN. 7 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date JAN. 7 19 83
W. M. [Signature] Commissions NB 6965
 (Nat'l Bd., State, Prov. and No.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-27-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 02055014-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-54.
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-54						
STUDS, 5/8 IN 11 UNC	ASME SA453 GR 660	N/A	M&E # 30-212290 ASP # 23596	N/A	REPLACED	NO
NUTS, 5/8 IN 11 UNC	ASME SA194 GR 8F	N/A	M&E # 30-212090 ASP # 27455	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: _____ Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Flange Bolting.

Job Order/File: 02055014-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-8-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Dineen
 Inspector's Signature

Commissions MI#300471
 National Board, State, Province, Endorsements

Date: 07/09 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-16-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 02058038-12
One Cook Place, Bridgman, MI 49106 Component# 2-PP-50W
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ASME 1968 DRAFT P & V CODE Ed.NO Add., Code
Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. **Identification of Components Repaired or Replaced and Replacement Components**

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-PP-50W	N/A	N/A	EXISTING	N/A	REPAIRED	NO
FILLER MATERIAL ER309L (1/8)	ASME # SFA 5.9	N/A	M & E # 30-044455 ASP # 22734	N/A	REPLACED	NO
FILLER MATERIAL E309-16 (1/8)	ASME # SFA 5.4	N/A	M & E # 30-044455 ASP # 17184	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT, P/T Pressure: psi Test Temperature F.

Job Order/File: 02058038-12 ISI CLASS 2

Description of Work: Repaired Pump cladding by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Jones Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-31-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02058038-13
One Cook Place, Bridgman, MI 49106 Component# 2-CS-81
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N416-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-CS-81 LARGE PIPE SUB-ASSEMBLY						
FILLER MATERIAL ER308L (1/8)	ASME # SFA 5.9	N/A	M & E # 30-044455 ASP # 26100	N/A	REPLACED	NO
FILLER MATERIAL ER308 (3/32)	ASME # SFA 5.9	N/A	M & E # 30-044988 ASP # 27174	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT, PT, RT, VT-2 Pressure: psi Test Temperature F.

Job Order/File: 002058038-13 ISI CLASS 2

Description of Work: Removed and Reinstalled Existing Large Pipe Flange by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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J. A. Timmons Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-29-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 02114066-01
One Cook Place, Bridgman, MI 49106 Component# 2-CS-307
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-CS-307						
DISC, VALVE	ASME SA182 TP F316	VELAN	M&E # 30-043940 ASP # 15181	N/A	REPLACED	NO
RETAINING RING, VALVE	ASME SA564 SS 630	VELAN	M&E # 30-044064 ASP # 14666	N/A	REPLACED	NO
STEM, VALVE	ASME SA564 SS 630	VELAN	M&E # 30-044094 ASP # 15261	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: _____ Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Disc, Retaining Ring and Stem.

Job Order/File: 02114066-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-9-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

JA Dines Commissions MI # 300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/10 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02155032-01
One Cook Place, Bridgman, MI 49106 Component# 2-NRV-151.
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. **Identification of Components Repaired or Replaced and Replacement Components**

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-NRV-151						
PLUG, VALVE	ASME SA479 TYPE 316	MASONEILAN	M&E # 30-042070 ASP # 26743	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-2 Pressure: psi Test Temperature F.

Job Order/File: 02155032-01 ISI CLASS 1

Description of Work: Replaced Valve Plug.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 6-28-07
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J A Dines Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/08 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 02155033-01
One Cook Place, Bridgman, MI 49106 Component# 2-NRV-152.
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-NRV-152						
PLUG, VALVE	ASME SA479 TYPE 316	MASONEILAN	M&E # 30-042070 ASP # 26743	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-2 Pressure: psi Test Temperature F.

Job Order/File: 02155033-01 ISI CLASS 1

Description of Work: Replaced Valve Plug.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 6-28-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/22/03, 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 of loss of any kind arising from or connected with this inspection.

J A Hines Commissions MI # 300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/08 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02155034-01
One Cook Place, Bridgman, MI 49106 Component# 2-NRV-153.
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS.
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-NRV-153						
PLUG, VALVE	ASME SA479 TYPE 316	MASONEILAN	M&E # 30-042070 ASP # 26743	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-2 Pressure: psi Test Temperature F.

Job Order/File: 02155034-01 ISI CLASS 1

Description of Work: Replaced Valve Plug.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 6-28-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Hines Commissions MI 300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/08 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 02199015-01
One Cook Place, Bridgman, MI 49106 Component# 2-CS-328-L1
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-CS-328-L1						
DISC ASSEMBLY, VALVE	ASME SA182 TP F316 (DISC)	VELAN	M&E # 30-043790 ASP # 16711	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT-2 Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Disc Assembly. VT-2 performed per
JO # R0226935-01.

Job Order/File: 02199015-01

ISI CLASS

1

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/ASigned: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Hines Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02199019-01
One Cook Place, Bridgman, MI 49106 Component# 2-CS-328-L4
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-CS-328-L4						
DISC ASSEMBLY, VALVE	ASME SA182 TP F316 (DISC)	VELAN	M&E # 30-043790 ASP # 16711	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT-2 Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Disc Assembly. VT-2 performed per

JO # R0226935-01.

Job Order/File: 02199019-01 ISI CLASS 1**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State or Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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JA Hines Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02199020-01
One Cook Place, Bridgman, MI 49106 Component# 2-CS-329-L1
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add. Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-CS-329-L1						
DISC ASSEMBLY, VALVE	ASME SA182 TP F316 (DISC)	VELAN	M&E # 30-043790 ASP # 16711	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT-2 Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Disc Assembly. VT-2 performed per

JO # R0226935-01.

Job Order/File: 02199020-01 ISI CLASS 1

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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Jadline Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02199021-01
One Cook Place, Bridgman, MI 49106 Component# 2-CS-329-L4
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-CS-329-L4						
DISC ASSEMBLY, VALVE	ASME SA182 TP F316 (DISC)	VELAN	M&E # 30-043790 ASP # 16711	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT-2 Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Disc Assembly. VT-2 performed per
JO # R0226935-01.

Job Order/File: 02199021-01 ISI CLASS 1

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/26/03, 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 of loss of any kind arising from or connected with this inspection.

JC Thines Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-11-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 02330023-01
One Cook Place, Bridgman, MI 49106 Component# 2-MRV-212
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-MRV-212						
PLUG & STEM ASSEMBLY, VALVE	ASTM A582G416(Plug) A276 Type 316 (Stem)	FISHER CONTROLS	M&E # 30-688864 ASP # 27167	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Description of Work: Replaced Valve PLUG/STEM Assembly.

Job Order/File: 02330023-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-9-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Jones Commissions MI#300471
 Inspector's Signature National Board, State, Province, Endorsements
 Date: 07/10 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-08-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 03052011-01
One Cook Place, Bridgman, MI 49106 Component# 2-MRV-211
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-MRV-211						
PLUG & STEM ASSEMBLY, VALVE	ASTM A582Gr416(Plug) A276-Type 316 (Stem)	FISHER CONTROLS	M&E # 30-688864 ASP # 27167	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Description of Work: Replaced Valve PLUG/STEM Assembly.

Job Order/File: 03052011-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-8-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

JA Hines Commissions MI#300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/09 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 04-10-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 03098014-03
One Cook Place, Bridgman, MI 49106 Component# 2-QMO-225
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-QMO-225						
PLUG ASSEMBLY, VALVE	ASTM A479 GR 316(Plug)	NELES JAMESBURY	M&E # 30-041073 ASP # 19336	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Description of Work: Replaced Valve PLUG Assembly.

Job Order/File: 03098014-03 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 6-28-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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J. A. Dineen Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements
Date: 07/08 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 03120051-01
One Cook Place, Bridgman, MI 49106 Component# 2-MS-135-1
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N416-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-MS-135-1						
VALVE	ASME SA105 VALVE BODY	VOGT	M&E # 30-044248 ASP # 19582	N/A	REPLACED	NO
LARGE PIPE SUB ASSEMBLY						
PIPE	ASME SA106 GR B	N/A	M&E # 30-014981 ASP # 25237	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT, PT, VT-2 Pressure: psi Test Temperature F.

Description of Work: Replaced VALVE and associated pipe by welding.

Job Order/File: 03120051-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-8-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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Ja Hines Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/09 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-01-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 03147005-01
One Cook Place, Bridgman, MI 49106 Component# 2-AFW-S4032-U
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-AFW-S4032-U S/N # 32893						
LOAD PIN, SNUBBER	N/A	GRINNELL	M&E # 30-024977 ASP # 15148	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure N/A

NDE: VT-3 Pressure: psi Test Temperature F.

Description of Work: Replaced Pipe Snubber Load Pin and Performed VT-3 as left inspection.

Job Order/File: 03147005-01 ISI CLASS 2

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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J. A. Hines Commissions MI*300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-01-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 03147005-02
One Cook Place, Bridgman, MI 49106 Component# 2-AFW-S4031
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-AFW-S4031 S/N # 34360						
SPACER WASHER, SNUBBER	N/A	GRINNELL	M&E # 21-769082	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure N/A

NDE: VT-3 Pressure: psi Test Temperature F.

Description of Work: Replaced Pipe Snubber Spacer Washer and Performed VT-3 as left inspection.

Job Order/File: 03147005-02 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State or Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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J. A. Hines Commissions MI*300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-01-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# 03147005-03
One Cook Place, Bridgman, MI 49106 Component# 2-AFW-S4021
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-AFW-S4021 S/N # 33071						
LOAD PIN, SNUBBER	N/A	GRINNELL	M&E # 30-024977 ASP # 15148	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure N/A

NDE: VT-3 Pressure: psi Test Temperature F.

Description of Work: Replaced Pipe Snubber Load Pin and Performed VT-3 as left inspection.

Job Order/File: 03147005-03

ISI CLASS

2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

JL Hines Commissions MI*300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-22-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# C0203258-01
One Cook Place, Bridgman, MI 49106 Component# 2-WCR-915
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: ESW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-WCR-915						
STUDS, 5/8 IN 18 UNF	ASME SA453 GR 660	N/A	M&E # 30-040581 ASP # 18063	N/A	REPLACED	NO
NUTS, 5/8 IN 18 UNF	ASME SA194 GR 8	N/A	M&E # 30-040589 ASP # 18382	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Description of Work: Replaced Valve Bonnet Bolting.

Job Order/File: C0203258-01 ISI CLASS 2**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-07
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Hines Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-09-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0014607-01
One Cook Place, Bridgman, MI 49106 Component# 2-GRC-S623
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add. Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-GRC-S623						
SNUBBER S/N 34247	N/A	GRINNELL	M&E # 30-024681 ASP # 27724	N/A	REPLACED	NO
TUBE, CYLINDER	N/A	GRINNELL	M&E # 00-028630 ASP # 25878 P.O. NU04-17560	N/A	REPLACED	NO
"A" KIT	N/A	GRINNELL	M&E # 30-040550 ASP # 20905	N/A	REPLACED	NO
SEAL KIT	N/A	GRINNELL	M&E # 30-025055 ASP # 23443	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-3 Pressure: psi Test Temperature F.

Job Order/File: R0014607-01 ISI CLASS 1

Description of Work: Replaced Existing Pipe Snubber with refurbished Snubber from stock. JOA # C0200096-01, Controlled the refurbishment activities for Snubber S/N # 34247. A new Cylinder Tube, Configuration "A" Modification Kit and a Seal Kit were installed during this activity.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

D. J. Timmons
Inspector's Signature

Commissions MI # 300471
National Board, State, Province, Endorsements

Date: 07/14 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0014612-02
One Cook Place, Bridgman, MI 49106 Component# 2-AFW-S4023
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-AFW-S4023						
SNUBBER S/N 32424	N/A	GRINNELL	M&E # 30-024683 ASP # 27647	N/A	REPLACED	NO
SEAL KIT, TYPE-A	N/A	GRINNELL	M&E # 30-040591 ASP # 21125	N/A	REPLACED	NO
SEAL KIT	N/A	GRINNELL	M&E # 30-025060 ASP # 23203	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-3 Pressure: psi Test Temperature F.

Job Order/File: R0014612-02 ISI CLASS 2

Description of Work: Replaced Existing Pipe Snubber with refurbished Snubber
from stock. JOA # 02140063-01, Controlled the refurbishment activities for
Snubber S/N # 32424. Two (2) seal kits were installed during this activity.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE


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


Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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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 Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements
Date: 07/15 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0014613-01
One Cook Place, Bridgman, MI 49106 Component# 2-AFW-S4024-L
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-AFW-S4024-L						
SNUBBER S/N 33173	N/A	GRINNELL	M&E # 30-024683 ASP # 27647	N/A	REPLACED	NO
SEAL KIT, TYPE-A	N/A	GRINNELL	M&E # 30-040591 ASP # 21125	N/A	REPLACED	NO
SEAL KIT	N/A	GRINNELL	M&E # 30-025060 ASP # 18076	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-3 Pressure: psi Test Temperature F.

Job Order/File: R0014613-01 ISI CLASS 2

Description of Work: Replaced Existing Pipe Snubber with refurbished Snubber from stock. JOA # 02144042-01, Controlled the refurbishment activities for Snubber S/N # 33173. Two (2) seal kits were installed during this activity.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7/12/03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Hines Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-30-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0014614-01
One Cook Place, Bridgman, MI 49106 Component# 2-AFW-S4024-U
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-AFW-S4024-U						
SNUBBER S/N 32466	N/A	GRINNELL	M&E # 30-024683 ASP # 27647	N/A	REPLACED	NO
SEAL KIT, TYPE-A	N/A	GRINNELL	M&E # 30-040591 ASP # 21125	N/A	REPLACED	NO
SEAL KIT	N/A	GRINNELL	M&E # 30-025060 ASP # 23203	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-3 Pressure: psi Test Temperature F.

Job Order/File: R0014614-01 ISI CLASS 2

Description of Work: Replaced Existing Pipe Snubber with refurbished Snubber from stock. JOA # 02141077-01, Controlled the refurbishment activities for Snubber S/N # 32466. Two (2) seal kits were installed during this activity.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State or Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/22/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Jones Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/14 — 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-23-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0059297-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-2A-2
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-2A-2						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6338	3707RA-RT22 (MODEL #)	CONSOLIDATED/ DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM19	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0059279-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/ testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre *Joseph A. Giuffre* Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

JA Giuffre Commissions MI*300471
Inspector's Signature National Board, State, Province, Endorsements
Date: 07/16 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
 b: Name of manufacturer: Consolidated / Dresser
 c: Identifying nos.
- | | | | | | |
|---|----------------------------|--------------------------|--------------------------------|-----------------------------|---------------------------|
| <u>3707RA-RT22</u> | <u>BN6338</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| <small>(type)</small> | <small>(mfr's S/N)</small> | <small>(NB#)</small> | <small>(service)</small> | <small>(size)</small> | <small>(yr.built)</small> |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| <small>(name/section/division)</small> | <small>(edition)</small> | <small>(addenda)</small> | <small>(Code Cases(s))</small> | <small>(Code Class)</small> | |
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1075 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM19. NWS traveler # 03-158.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
 National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/14/03 NWS Technologies, LLC Cesar V. Sierra Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/14/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/14/03 C. R. Enos NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

**As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production**

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of Installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) ADM19 ✓		(26)	
(2) ADM20 ✓		(27)	
(3) ADM21 ✓		(28)	
(4) ADM22 ✓		(29)	
(5) ADM23 ✓		(30)	
(6) ADM24 ✓		(31)	
(7) ADM25 ✓		(32)	
(8) ADM26 ✓		(33)	
(9) ADM27 ✓		(34)	
(10) ADM28 ✓		(35)	
(11) ADM29 ✓		(36)	
(12) ADM30 ✓		(37)	
(13) ADM31 ✓		(38)	
(14) ADM32 ✓		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

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

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed D.W. Brannen
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0059299-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1B-3
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1B-3						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6329	3707RA-RT22 (MODEL #)	CONSOLIDATED/ DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM23	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0059299-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/ testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Giuffre Commissions MI*300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.

<u>3707RA-RT22</u>	<u>BN6329</u>	<u>n/a</u>	<u>steam</u>	<u>6"</u>	<u>n/a</u>
<small>(type)</small>	<small>(mfr's S/N)</small>	<small>(NB#)</small>	<small>(service)</small>	<small>(size)</small>	<small>(yr.built)</small>
- d: Construction Code: ASME Section III 1968 S '69 n/a 2

<small>(name/section/division)</small>	<small>(edition)</small>	<small>(addenda)</small>	<small>(Code Cases(s))</small>	<small>(Code Class)</small>
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6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a

<small>(edition)</small>	<small>(addenda)</small>	<small>(Code Case(s))</small>
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7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a

<small>(edition)</small>	<small>(addenda)</small>	<small>(Code Case(s))</small>
--------------------------	--------------------------	-------------------------------
8. Construction Code used for repairs, replacements: 1968 S '69 n/a

<small>(edition)</small>	<small>(addenda)</small>	<small>(Code Case(s))</small>
--------------------------	--------------------------	-------------------------------
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (Include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM23. NWS traveler # 03-154.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/15/03 NWS Technologies, LLC *Cesar V. Sierra* Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/15/03 *C. R. Enos* NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>ADM19 ✓</u>		(26) _____	
(2) <u>ADM20 ✓</u>		(27) _____	
(3) <u>ADM21 ✓</u>		(28) _____	
(4) <u>ADM22 ✓</u>		(29) _____	
(5) <u>ADM23 ✓</u>		(30) _____	
(6) <u>ADM24 ✓</u>		(31) _____	
(7) <u>ADM25 ✓</u>		(32) _____	
(8) <u>ADM26 ✓</u>		(33) _____	
(9) <u>ADM27 ✓</u>		(34) _____	
(10) <u>ADM28 ✓</u>		(35) _____	
(11) <u>ADM29 ✓</u>		(36) _____	
(12) <u>ADM30 ✓</u>		(37) _____	
(13) <u>ADM31 ✓</u>		(38) _____	
(14) <u>ADM32 ✓</u>		(39) _____	
(15) _____		(40) _____	
(16) _____		(41) _____	
(17) _____		(42) _____	
(18) _____		(43) _____	
(19) _____		(44) _____	
(20) _____		(45) _____	
(21) _____		(46) _____	
(22) _____		(47) _____	
(23) _____		(48) _____	
(24) _____		(49) _____	
(25) _____		(50) _____	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)
 Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004
 Date 2/19/03 Name SEE LINE 1 Signed DW Brumer
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
 or loss of any kind arising from or connected with this inspection.

Date 02-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0059324-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1A-1
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1A-1						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6325	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM28	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0059324-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/ testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

12/1/03 Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 — 2003

FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒ OF NUCLEAR PRESSURE RELIEF DEVICES

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
 b: Name of manufacturer: Consolidated / Dresser
 c: Identifying nos.
- | <u>3707RA-RT22</u>
(type) | <u>BN6325</u>
(mfr's S/N) | <u>n/a</u>
(NB#) | <u>steam</u>
(service) | <u>6"</u>
(size) | <u>n/a</u>
(yr. built) |
|--|------------------------------|---------------------------|-------------------------------|--------------------------|---------------------------|
| d: Construction Code: <u>ASME Section III</u>
(name/section/division) | <u>1968</u>
(edition) | <u>S '69</u>
(addenda) | <u>n/a</u>
(Code Cases(s)) | <u>2</u>
(Code Class) | |
| 6. ASME Code Section XI applicable for inservice inspection: | <u>1989</u>
(edition) | <u>n/a</u>
(addenda) | <u>n/a</u>
(Code Case(s)) | | |
| 7. ASME Code Section XI used for repairs, replacements: | <u>1989</u>
(edition) | <u>n/a</u>
(addenda) | <u>n/a</u>
(Code Case(s)) | | |
| 8. Construction Code used for repairs, replacements: | <u>1968</u>
(edition) | <u>S '69</u>
(addenda) | <u>n/a</u>
(Code Case(s)) | | |
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM28. NWS traveler # 03-150.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
 National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/14/03 NWS Technologies, LLC *Cesar V. Sierra* Manager, QA
 Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/14/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/14/03 *Carl R. Enos* NB # 8460, A, N, I TN# 2236
 Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) ADM19 ✓		(26)	
(2) ADM20 ✓		(27)	
(3) ADM21 ✓		(28)	
(4) ADM22 ✓		(29)	
(5) ADM23 ✓		(30)	
(6) ADM24 ✓		(31)	
(7) ADM25 ✓		(32)	
(8) ADM26 ✓		(33)	
(9) ADM27 ✓		(34)	
(10) ADM28 ✓		(35)	
(11) ADM29 ✓		(36)	
(12) ADM30 ✓		(37)	
(13) ADM31 ✓		(38)	
(14) ADM32 ✓		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F.
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Gmenner
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of LOUISIANA and employed by HSB CT of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02-20-03 Signed [Signature] Commissions LA. 798
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0068986-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-2A-4
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-2A-4						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6332	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-29812	N/A	REPAIRED	YES
DISC, VALVE S/N # ADI76	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 26647	2002	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2002
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) ADI66	
(2) ADI67	
(3) ADI68	
(4) ADI69	
(5) ADI70	
(6) ADI71	
(7) ADI72	
(8) ADI73	
(9) ADI74	
(10) ADI75	
(11) ADI76	
(12) ADI77	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

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

Certificate Holder's Serial Nos. ADI66 through ADI77

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 3-20-02 Name SEE LINE 1 Signed V L Beaven
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
of LOUISIANA and employed by HSB CT
of HARTFORD, CT. have inspected these items described in this Data Report on 3/20/02, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 3/20/02 Signed [Signature] Commissions Unbep
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000029812 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.
- | | | | | | |
|---|---------------|--------------|-----------------|--------------|-------------|
| <u>3707RA-RT22</u> | <u>BN6332</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr. built) |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1075 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADI76. NWS traveler # 03-161.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/15/03 NWS Technologies, LLC *Cesar V. Sierra* Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/15/03 *C.R. Enos* NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

Job Order/File: R0068986-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1
is attached. A new material valve disc was installed during this refurbishment/
testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/22/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Hines Commissions MI*300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-01-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0079885-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-2A-1
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-2A-1						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6334	3707RA-RT22 (MODEL #)	CONSOLIDATED/ DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADI77	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 26647	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0079885-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/ testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

Joseph A. Giuffre Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000029812 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.
- | | | | | | |
|---|---------------|--------------|-----------------|--------------|------------|
| <u>3707RA-RT22</u> | <u>BN6334</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1075 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADI77. NWS traveler # 03-162.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/15/03 NWS Technologies, LLC [Signature] Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/15/03 C. R. Enos NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2002
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) ADI66	
(2) ADI67	
(3) ADI68	
(4) ADI69	
(5) ADI70	
(6) ADI71	
(7) ADI72	
(8) ADI73	
(9) ADI74	
(10) ADI75	
(11) ADI76	
(12) ADI77	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

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

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. AD166 through AD177

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 3-20-02 Name SEE LINE 1 Signed V L Beaven
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the State or Province
of LOUISIANA and employed by HSB CT
of HARTFORD, CT. have inspected these items described in this Data Report on 3/20/02, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
or loss of any kind arising from or connected with this inspection.

Date 3/20/02 Signed [Signature] Commissions Unlabeled
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-22-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0079894-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1B-2
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1B-2						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6330	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM20	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0079894-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre *Giuffre* Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Giuffre Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements
Date: 07/16 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos. 3707RA-RT22 BN6330 n/a steam 6" n/a
(type) (mfr's S/N) (NB#) (service) (size) (yr. built)
- d: Construction Code: ASME Section III 1968 S '69 n/a 2
(name/section/division) (edition) (addenda) (Code Cases(s)) (Code Class)
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM20. NWS traveler # 03-155.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/15/03 NWS Technologies, LLC [Signature] Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/15/03 C.R. Enos NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) ADM19 ✓	
(2) ADM20 ✓	
(3) ADM21 ✓	
(4) ADM22 ✓	
(5) ADM23 ✓	
(6) ADM24 ✓	
(7) ADM25 ✓	
(8) ADM26 ✓	
(9) ADM27 ✓	
(10) ADM28 ✓	
(11) ADM29 ✓	
(12) ADM30 ✓	
(13) ADM31 ✓	
(14) ADM32 ✓	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

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

Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Gmenow
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
of LOUISIANA and employed by HSB CT
of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
or loss of any kind arising from or connected with this inspection.

Date 02-20-03 Signed [Signature] Commissions LA. 798
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-01-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0079895-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-2A-3
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-2A-3						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6336	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM24	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0079895-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1
is attached. A new material valve disc was installed during this refurbishment/
testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler
Pressure Vessel Inspectors and the State of Michigan and employed by
ABS GROUP INC. of HOUSTON, TEXAS
have inspected the components described in this Owner's Report during the period
04/22/03 to 06/20/03, 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 of loss of any
kind arising from or connected with this inspection.

JA Dineen Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 — 2003

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of Installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>ADM19 ✓</u>	
(2) <u>ADM20 ✓</u>	
(3) <u>ADM21 ✓</u>	
(4) <u>ADM22 ✓</u>	
(5) <u>ADM23 ✓</u>	
(6) <u>ADM24 ✓</u>	
(7) <u>ADM25 ✓</u>	
(8) <u>ADM26 ✓</u>	
(9) <u>ADM27 ✓</u>	
(10) <u>ADM28 ✓</u>	
(11) <u>ADM29 ✓</u>	
(12) <u>ADM30 ✓</u>	
(13) <u>ADM31 ✓</u>	
(14) <u>ADM32 ✓</u>	
(15) _____	
(16) _____	
(17) _____	
(18) _____	
(19) _____	
(20) _____	
(21) _____	
(22) _____	
(23) _____	
(24) _____	
(25) _____	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26) _____	
(27) _____	
(28) _____	
(29) _____	
(30) _____	
(31) _____	
(32) _____	
(33) _____	
(34) _____	
(35) _____	
(36) _____	
(37) _____	
(38) _____	
(39) _____	
(40) _____	
(41) _____	
(42) _____	
(43) _____	
(44) _____	
(45) _____	
(46) _____	
(47) _____	
(48) _____	
(49) _____	
(50) _____	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Brenner
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION .

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
 or loss of any kind arising from or connected with this inspection.

Date 02-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0214378-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1A-3
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1A-3						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6324	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM22	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0214378-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/ testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

Ja Dines Commissions MI*300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgman, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.
- | | | | | | | |
|-----------------------|-------------------------|---------------|--------------|-----------------|--------------|------------|
| | <u>3707RA-RT22</u> | <u>BN6324</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| | (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: | <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| | (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM22. NWS traveler # 03-149.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/15/03 NWS Technologies, LLC *Cesar V. Sierra* Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/15/03 *C.R. Enos* NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of Installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) ADM19 ✓		(26)	
(2) ADM20 ✓		(27)	
(3) ADM21 ✓		(28)	
(4) ADM22 ✓		(29)	
(5) ADM23 ✓		(30)	
(6) ADM24 ✓		(31)	
(7) ADM25 ✓		(32)	
(8) ADM26 ✓		(33)	
(9) ADM27 ✓		(34)	
(10) ADM28 ✓		(35)	
(11) ADM29 ✓		(36)	
(12) ADM30 ✓		(37)	
(13) ADM31 ✓		(38)	
(14) ADM32 ✓		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)
 Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 6/20/2004
 Date 2/19/03 Name SEE LINE 1 Signed DW Gmener
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION .

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 62-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 62-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-28-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0214381-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1B-4
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add. Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1B-4						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6327	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM26	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0214381-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1
is attached. A new material valve disc was installed during this refurbishment/
testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre *Joseph A. Giuffre* Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler
Pressure Vessel Inspectors and the State of Michigan and employed by
ABS GROUP INC. of HOUSTON, TEXAS
have inspected the components described in this Owner's Report during the period
04/22/03 to 06/20/03, 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 of loss of any
kind arising from or connected with this inspection.

Joe Hines Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos. 3707RA-RT22 BN6327 n/a steam 6" n/a
(type) (mfr's S/N) (NB#) (service) (size) (yr.built)
- d: Construction Code: ASME Section III 1968 S '69 n/a 2
(name/section/division) (edition) (addenda) (Code Cases(s)) (Code Class)
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM26. NWS traveler # 03-152.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.
5/15/03 NWS Technologies, LLC [Signature] Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
5/15/03 C.R. Enos NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Pkt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>ADM19 ✓</u>		(26) _____	
(2) <u>ADM20 ✓</u>		(27) _____	
(3) <u>ADM21 ✓</u>		(28) _____	
(4) <u>ADM22 ✓</u>		(29) _____	
(5) <u>ADM23 ✓</u>		(30) _____	
(6) <u>ADM24 ✓</u>		(31) _____	
(7) <u>ADM25 ✓</u>		(32) _____	
(8) <u>ADM26 ✓</u>		(33) _____	
(9) <u>ADM27 ✓</u>		(34) _____	
(10) <u>ADM28 ✓</u>		(35) _____	
(11) <u>ADM29 ✓</u>		(36) _____	
(12) <u>ADM30 ✓</u>		(37) _____	
(13) <u>ADM31 ✓</u>		(38) _____	
(14) <u>ADM32 ✓</u>		(39) _____	
(15) _____		(40) _____	
(16) _____		(41) _____	
(17) _____		(42) _____	
(18) _____		(43) _____	
(19) _____		(44) _____	
(20) _____		(45) _____	
(21) _____		(46) _____	
(22) _____		(47) _____	
(23) _____		(48) _____	
(24) _____		(49) _____	
(25) _____		(50) _____	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Emmer
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION .

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
 or loss of any kind arising from or connected with this inspection.

Date 02-20-03 Signed [Signature] Commissions LA. 798
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0226233-01
One Cook Place, Bridgman, MI 49106 Component# 2-AFW-S4025
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: AFW
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-AFW-S4025						
SNUBBER S/N 32472	N/A	GRINNELL	M&E # 30-024683 ASP # 27647	N/A	REPLACED	NO
SEAL KIT, TYPE-A	N/A	GRINNELL	M&E # 30-040591 ASP # 21125	N/A	REPLACED	NO
SEAL KIT	N/A	GRINNELL	M&E # 30-025060 ASP # 18076	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-3 Pressure: psi Test Temperature F.

Job Order/File: R0226233-01 ISI CLASS 2

Description of Work: Replaced Existing Pipe Snubber with refurbished Snubber from stock. JOA # 02146047-01, Controlled the refurbishment activities for Snubber S/N # 32472. Two (2) seal kits were installed during this activity.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-12-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

Jadine Commissions MI*300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/15 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0226763-05
One Cook Place, Bridgman, MI 49106 Component# 2-SV-45A.
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS.
5. a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A.
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-45A						
SAFETY RELIEF VALVE (6 M 6) S/N RV-2-8010C	ASTM A351 GR CF8M	CROSBY	M&E # 30-036392 ASP # 27664 P.O. # NU04-0000015132	N/A	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT-3, VT-2 Pressure: psi Test Temperature F.

140

Job Order/File: R0226763-05 ISI CLASS 1

Description of Work: Installed valve was removed and Replaced using a

Refurbished Valve. No bolting was replaced. VT-2 performed per JO #

R0226935-01. FORM NVR-1 is attached.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. Ardine Commissions MZ#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 2003

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FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☐
OF NUCLEAR PRESSURE RELIEF DEVICES

1. Work performed by: NWS Technologies, LLC Purchase Order # NU04-0000015132
131 Venture Boulevard, Spartanburg, SC 29301
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgeman, MI 49106
5. a: Repaired pressure relief device: Pressurizer Safety Valve
b: Name of manufacturer: Crosby
c: Identifying nos.
- | | | | | | |
|--|----------------------------------|---------------------------|-------------------------------|--------------------------|---------------------------|
| <u>HB-86 BP</u>
(type) | <u>RV-2-8010C</u>
(mfr's S/N) | <u>N/A</u>
(NB#) | <u>steam</u>
(service) | <u>6 M 6</u>
(size) | <u>N/A</u>
(yr. built) |
| d: Construction Code: <u>ASME Section III</u>
(name/section/division) | <u>1968</u>
(edition) | <u>S '69</u>
(addenda) | <u>N/A</u>
(Code Cases(s)) | <u>1</u>
(Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989
(edition)
7. ASME Code Section XI used for repairs, replacements: 1989
(edition)
8. Construction Code used for repairs, replacements: 1968
(edition)
9. Design responsibilities: N/A
10. Opening pressure: 2485 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Steam test, jack & lap, steam seat tightness - leaked, low set-pressure, full disassembly, lapped washers to spring, inspected, lapped seats cleaned, lubricated, assembled, steam set-pressure cert. test, jack & lap, steam seat tightness test.
12. Remarks: No parts were replaced during the repair.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2003.

National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2003.

10/22/01 NWS Technologies, LLC Cesar V. Sierra Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler Inspection & Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 22 Oct. 2001 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

10/22/01 Charles F. Toegel Jr. NB # 8462, A, N, I NC# 1073
Date Inspectors Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0226766-05
One Cook Place, Bridgman, MI 49106 Component# 2-SV-45C.
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS.
5. a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A.
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. **Identification of Components Repaired or Replaced and Replacement Components**

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-45C						
SAFETY RELIEF VALVE (6 M 6) S/N # N56499-00-0003	ASME SA351 GR CF8M	CROSBY	M&E # 30-036392 ASP # 27687 P.O. # NU190-0000027761	1974	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure
 NDE: VT-3, VT-2 Pressure: psi Test Temperature F.

Job Order/File: R0226766-05 ISI CLASS 1

Description of Work: Installed valve was removed and Replaced using a

Refurbished Valve. No bolting was replaced. VT-2 performed per JO #

R0226935-01. FORM NVR-1 is attached.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Lines Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/12 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☐
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027761 Rev. 1
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgeman, MI 49106
5. a: Repaired pressure relief device: Pressurizer Safety Valve
 b: Name of manufacturer: Crosby
 c: Identifying nos.
- | | | | | | |
|---|-----------------------|--------------|-----------------|--------------|-------------|
| <u>HB-BP-86</u> | <u>N56499-00-0003</u> | <u>N/A</u> | <u>steam</u> | <u>6 M 6</u> | <u>1974</u> |
| (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>N/A</u> | <u>1</u> | |
| (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A
 (edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 N/A N/A
 (edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 N/A
 (edition) (addenda) (Code Case(s))
9. Design responsibilities: N/A
10. Opening pressure: 2485 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): As-found steam test, full disassembly, inspect, clean, lap seats, buffed, lubricated, assembled. Certified set-pressure using steam. Jacked and lapped to restore seat finish. Certified seat tightness using steam.
12. Remarks: NWS traveler # 03-10. No parts were replaced during the repair.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2003.
 National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2003.

2/21/03 NWS Technologies, LLC Cesar V. Sierra Manager, QA
 Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 21 FEB 2003 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

2/21/03 Charles F. Toegel Jr. NB # 8462, A, N, I NC# 1073
 Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-17-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0226770-06
One Cook Place, Bridgman, MI 49106 Component# 2-SV-45B
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: RCS
5. a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A.
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-45B						
SAFETY RELIEF VALVE (6 M 6) S/N # N56499-00-0002	ASME SA351 GR CF8M	CROSBY	M&E # 30-036392 ASP # 27687 P.O. # NU190-0000027761	1974	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure

NDE: VT-3, VT-2 Pressure: psi Test Temperature F.

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Job Order/File: R0226770-06 ISI CLASS 1

Description of Work: Installed valve was removed and Replaced using a

Refurbished Valve. No bolting was replaced. VT-2 performed per JO #

R0226935-01. FORM NVR-1 is attached.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-11-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

JA Hines Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements
Date: 07/12 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☐
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027761 Rev. 1
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgman, MI 49106
5. a: Repaired pressure relief device: Pressurizer Safety Valve
b: Name of manufacturer: Crosby
c: Identifying nos.
- | | | | | | | |
|-----------------------|-------------------------|-----------------------|--------------|-----------------|--------------|-------------|
| | <u>HB-BP-86</u> | <u>N56499-00-0002</u> | <u>N/A</u> | <u>steam</u> | <u>6 M 6</u> | <u>1974</u> |
| | (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: | <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>N/A</u> | <u>1</u> | |
| | (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 N/A N/A
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 N/A
(edition) (addenda) (Code Case(s))
9. Design responsibilities: N/A
10. Opening pressure: 2485 psig
Set-pressure adjustment made at NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): As-found steam test, full disassembly, inspect, clean, lap seats, buffed, lubricated, assembled. Certified set-pressure using steam. Jacked and Lapped to restore seat finish. Certified seat tightness using steam.
12. Remarks: NWS traveler # 03-9. No parts were replaced during the repair.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2003.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2003.

2/21/03 NWS Technologies, LLC Cesar V. Sierra Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 21 FEB 2003 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

2/21/03 Charles F. Toegel Jr. NB # 8462, A, N, I NC# 1073
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 06-10-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0227620-03
One Cook Place, Bridgman, MI 49106 Component# 2-TK-87
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: CVCS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-TK-87						
(12) 1/2 "x 5/8 " STUDS	ASME SA193, B-7	N/A	M&E 00-022115 ASP-25070	N/A	REPLACED	NO
(11) 5/8" WASHERS	ASTM F-436-93	N/A	M&E 30-212690 ASP-20515	N/A	REPLACED	NO
(11) 5/8" NUTS	ASME SA 194-89 GR 2H HEAVY	N/A	M&E 30-211880 ASP-21351	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nomial Operating Pressure N/A

NDE: VT-3 Pressure: psi Test Temperature F.

Job Order/File: R0227620-03 ISI CLASS 2

Description of Work: The manway cover was installed using new Tapered Bolts,
(11)Nuts , (11)Washers and an O Ring..

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7/1/03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS

have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

Ja Hines Commissions MI# 300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/14 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-22-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0233318-01
One Cook Place, Bridgman, MI 49106 Component# 2-OME-3-1-HSD-3L
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: ANSI B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-OME-3-1-HSD-3L						
ROD END COVER, SNUBBER	UNS # 4340	ENERTECH	M&E # 30-023634 ASP # 12673	N/A	REPLACED	NO
PISTON ROD, SNUBBER	ASTM A668-85	ENERTECH	M&E # 30-023600 ASP # 10600	N/A	REPLACED	NO
PISTON, SNUBBER	ASTM A668-85	ENERTECH	M&E # 30-023595 ASP # 10600	N/A	REPLACED	NO

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: VT-3 Pressure: psi Test Temperature F.

151

Job Order/File: R0233318-01 ISI CLASS 1

Description of Work: Refurbished Snubber. This snubber did not change installed location. VT-3 performed per Repetitive Task JOA # R0099996-17.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Dewayne Timmons Maint. Welding Supervisor Date 7-9-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J. A. Hines Commissions MI#300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/10 2003

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0233452-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-3-1
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-3-1						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6343	3707RA-RT22 (MODEL #)	CONSOLIDATED/ DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM30	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0233452-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1
is attached. A new material valve disc was installed during this refurbishment/
testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONECertificate of Authorization No. N/A Expiration Date N/A

Signed: Joseph A. Giuffre Mechanical Maintenance Manager Date 7-15-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

JA Giuffre Commissions MI #300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
 b: Name of manufacturer: Consolidated / Dresser
 c: Identifying nos.
- | | | | | | |
|---|---------------|--------------|-----------------|--------------|------------|
| <u>3707RA-RT22</u> | <u>BN6343</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
 (edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
 (edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
 (edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1085 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM30. NWS traveler # 03-160.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
 National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/14/03 NWS Technologies, LLC *Cesar V. Sierra* Manager, QA
 Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/14/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/14/03 *Carl R. Enos* NB # 8460, A, N, I TN# 2236
 Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) ADM19 ✓	
(2) ADM20 ✓	
(3) ADM21 ✓	
(4) ADM22 ✓	
(5) ADM23 ✓	
(6) ADM24 ✓	
(7) ADM25 ✓	
(8) ADM26 ✓	
(9) ADM27 ✓	
(10) ADM28 ✓	
(11) ADM29 ✓	
(12) ADM30 ✓	
(13) ADM31 ✓	
(14) ADM32 ✓	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

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

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed D.W. Brannen
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0233453-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-3-4
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed., NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-3-4						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6342	3707RA-RT22 (MODEL #)	CONSOLIDATED/ DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM25	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0233453-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1
is attached. A new material valve disc was installed during this refurbishment/
testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre Mechanical Maintenance Manager Date 7-15-03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

Joseph A. Giuffre Commissions MI-300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.
- | | | | | | |
|---|----------------------------|--------------------------|--------------------------------|-----------------------------|---------------------------|
| <u>3707RA-RT22</u> | <u>BN6342</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| <small>(type)</small> | <small>(mfr's S/N)</small> | <small>(NB#)</small> | <small>(service)</small> | <small>(size)</small> | <small>(yr.built)</small> |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| <small>(name/section/division)</small> | <small>(edition)</small> | <small>(addenda)</small> | <small>(Code Cases(s))</small> | <small>(Code Class)</small> | |
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1085 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (Include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM25. NWS traveler # 03-159.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/15/03 NWS Technologies, LLC *Cesar V. Sierra* Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/15/03 *C.R. Enos* NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of Installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) ADM19 ✓		(26)	
(2) ADM20 ✓		(27)	
(3) ADM21 ✓		(28)	
(4) ADM22 ✓		(29)	
(5) ADM23 ✓		(30)	
(6) ADM24 ✓		(31)	
(7) ADM25 ✓		(32)	
(8) ADM26 ✓		(33)	
(9) ADM27 ✓		(34)	
(10) ADM28 ✓		(35)	
(11) ADM29 ✓		(36)	
(12) ADM30 ✓		(37)	
(13) ADM31 ✓		(38)	
(14) ADM32 ✓		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

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

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Gmenner
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-26-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0233454-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1A-4
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1A-4						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6326	3707RA-RT22 (MODEL #)	CONSOLIDATED/ DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM27	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0233454-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1
is attached. A new material valve disc was installed during this refurbishment/
testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre *J. Giuffre* Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler
Pressure Vessel Inspectors and the State of Michigan and employed by
ABS GROUP INC. of HOUSTON, TEXAS
have inspected the components described in this Owner's Report during the period
04/22/03 to 06/20/03, 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 of loss of any
kind arising from or connected with this inspection.

J. A. Dineen Commissions MI #300471
Inspector's Signature National Board, State, Province, Endorsements
Date: 07/16 — 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.
- | | | | | | |
|---|---------------|--------------|-----------------|--------------|------------|
| <u>3707RA-RT22</u> | <u>BN6326</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM27. NWS traveler # 03-151.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/15/03 NWS Technologies, LLC *Cesar V. Sierra* Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/15/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/15/03 *C. R. Enos* NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) ADM19 ✓		(26)	
(2) ADM20 ✓		(27)	
(3) ADM21 ✓		(28)	
(4) ADM22 ✓		(29)	
(5) ADM23 ✓		(30)	
(6) ADM24 ✓		(31)	
(7) ADM25 ✓		(32)	
(8) ADM26 ✓		(33)	
(9) ADM27 ✓		(34)	
(10) ADM28 ✓		(35)	
(11) ADM28 ✓		(36)	
(12) ADM30 ✓		(37)	
(13) ADM31 ✓		(38)	
(14) ADM32 ✓		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM19 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Gmener
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of LOUISIANA and employed by HSE CT of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-30-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C.Cook Nuclear Power Plant Job Order# R0234195-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1A-2
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME,ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1A-2						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6328	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM21	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure

NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0234195-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/ testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre *Giuffre* Mechanical Maintenance Manager Date 7-16-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

J.A. Dineen Commissions MI*300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos. 3707RA-RT22 BN6328 n/a steam 6" n/a
(type) (mfr's S/N) (NB#) (service) (size) (yr.built)
- d: Construction Code: ASME Section III 1968 S '69 n/a 2
(name/section/division) (edition) (addenda) (Code Cases(s)) (Code Class)
6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '69 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM21. NWS traveler # 03-153.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/14/03 NWS Technologies, LLC Cesar V. Sierra Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/14/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/14/03 CR Enos NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) ADM19 ✓	
(2) ADM20 ✓	
(3) ADM21 ✓	
(4) ADM22 ✓	
(5) ADM23 ✓	
(6) ADM24 ✓	
(7) ADM25 ✓	
(8) ADM26 ✓	
(9) ADM27 ✓	
(10) ADM28 ✓	
(11) ADM29 ✓	
(12) ADM30 ✓	
(13) ADM31 ✓	
(14) ADM32 ✓	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM18 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Brumer
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02-20-03 Signed [Signature] Commissions LA. 798
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

1. Owner: AMERICAN ELECTRIC POWER Date Performed: 05-28-03
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# R0234196-01
One Cook Place, Bridgman, MI 49106 Component# 2-SV-1B-1
3. Work Performed by: AEP/D.C. COOK Maintenance Department
4. Identification of System: MS
5. (a) Applicable Construction Code: USAS, B31.1, 1967 Ed. NO Add., Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&E# ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
2-SV-1B-1						
SAFETY RELIEF VALVE (6 X 10) S/N # BN6331	3707RA-RT22 (MODEL #)	CONSOLIDATED/DRESSER	P.O. # 190-27664	N/A	REPAIRED	YES
DISC, VALVE S/N # ADM29	ASME SB637 (Inconel X-750)	DRESSER	M&E # 30-037699 ASP # 27622	2003	REPLACED	YES

7. Hydrostatic NA Pneumatic NA Nominal Operating Pressure
 NDE: N/A Pressure: psi Test Temperature F.

Job Order/File: R0234196-01 ISI CLASS 2

Description of Work: Valve was refurbished by Certified Vendor, FORM NVR-1 is attached. A new material valve disc was installed during this refurbishment/ testing process, FORM N-2 is attached. No change in plant installed location.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed: Joseph A. Giuffre *Joseph A. Giuffre* Mechanical Maintenance Manager Date 7-15-03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Providence of Michigan and employed by ABS GROUP INC. of HOUSTON, TEXAS have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

James Commissions MI# 300471
Inspector's Signature National Board, State, Province, Endorsements

Date: 07/16 2003

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: NWS Technologies, LLC Purchase Order # 190-0000027664 Rev. 2
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: American Electric Power, 500 Circle Drive Buchanan, MI 49107
- 3/4. Owner - name, address and identification of nuclear power plant: American Electric Power, Cook Nuclear Plant, One Cook Place Bridgmen, MI 49106
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.
- | | | | | | |
|---|---------------|--------------|-----------------|--------------|------------|
| <u>3707RA-RT22</u> | <u>BN6331</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>n/a</u> |
| (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: <u>ASME Section III</u> | <u>1968</u> | <u>S '69</u> | <u>n/a</u> | <u>2</u> | |
| (name/section/division) | (edition) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 1989
(edition) n/a (Code Case(s)) n/a
7. ASME Code Section XI used for repairs, replacements: 1989
(edition) n/a (Code Case(s)) n/a
8. Construction Code used for repairs, replacements: 1968
(edition) S '69 (Code Case(s)) n/a
9. Design responsibilities: n/a
10. Opening pressure: 1065 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Initial test, disassembled, replaced disc with X750 disc, repaired, certified set-pressure and seat tightness on steam.
12. Remarks: Replaced disc. New (X750) disc S/N ADM29. NWS traveler # 03-156.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2006.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2006.

5/14/03 NWS Technologies, LLC [Signature] Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Carl R. Enos holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Tennessee and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 5/14/03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

5/14/03 C.R. Enos NB # 8460, A, N, I TN# 2236
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NPT Certificate Holder)

2. Manufactured for American Electric Power Co. DC Cook Nuc Plt / Nuc Gen Group 500 Circle Dr Buchanan, Michigan 49107-
(name and address of purchaser)

3. Location of Installation American Electric Power Co. DC Cook Nuclear Plant One Cook Place Bridgeman, Michigan 49106-
(name and address)

4. Type OS283 SB637 (Inconel X-750) 170 KSI N/A 2003
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code Section III, Division 1: 1968 Summer 1969 A Article 9 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)

7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) ADM19 ✓		(26)	
(2) ADM20 ✓		(27)	
(3) ADM21 ✓		(28)	
(4) ADM22 ✓		(29)	
(5) ADM23 ✓		(30)	
(6) ADM24 ✓		(31)	
(7) ADM25 ✓		(32)	
(8) ADM26 ✓		(33)	
(9) ADM27 ✓		(34)	
(10) ADM28 ✓		(35)	
(11) ADM29 ✓		(36)	
(12) ADM30 ✓		(37)	
(13) ADM31 ✓		(38)	
(14) ADM32 ✓		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)Certificate Holder's Serial Nos. ADM18 through ADM32

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

Design report* certified by N/A P.E. State N/A Reg. No. N/A
 (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2434 Expires 6/20/2004

Date 2/19/03 Name SEE LINE 1 Signed DW Gmener
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of LOUISIANA and employed by HSB CT
 of HARTFORD, CT. have inspected these items described in this Data Report on 02-20-03, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 (II, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02-20-03 Signed [Signature] Commissions LA. 798
 (Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

1. Owner: AMERICAN ELECTRIC POWER Date: June 19, 2003
P.O. Box 60 Fort Wayne IN 46801 Unit# 2
2. Plant: D.C. Cook Nuclear Power Plant Job Order# 02294028-22
One Cook Place, Bridgman, MI 49106 Component# RV Head 2-OME-1
Penetration # 74 & 43
3. Work Performed by: Westinghouse Electric Company, LLC
4. Identification of System: Reactor Head
5. (a) Applicable Construction Code: ASME Section III, 1968, Code Case: N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	ASME, ASTM or AISI designation:	Name of Manufacture	Material Identification: M&EW ASP# P.O.#	Year built	Repaired Or Replaced	ASME Code Stamped Yes/No
RV Head Penetration	SB166 UNS06600	Westinghouse	N/A	1972	Repaired	Y

7. Hydrostatic Pneumatic Nominal Operating Pressure
N/A NDE: PT & ET Pressure: psi Test Temperature F.

Description of Work: Repair of PT Indications in Flued Head Structure
by grinding, rewelding and final PT of repaired areas.

App. J testing completed in accordance with ASME Section XI.

Job Order/File: 03135064-12/13 ISI Class MC

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No. _____ Expiration Date _____

Signed: [Signature] WESTINGHOUSE QA Date 9/16/03
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler Pressure Vessel Inspectors and the State of Michigan and employed by ABS Consulting, Inc., have inspected the components described in this Owner's Report during the period 04/22/03 to 06/20/03, 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 of loss of any kind arising from or connected with this inspection.

[Signature] Commissions MT# 300471
 Inspector's Signature National Board, State, Province, Endorsements

Date: 09/16 19 2003