

Indiana Michigan
Power Company
500 Circle Drive
Buchanan, MI 49107 1373



June 13, 2002

AEP:NRC:2055-03
10 CFR 50.55a

Docket No.: 50-315

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

Donald C. Cook Nuclear Plant Unit 1
ADDENDUM TO 1998 NIS-1 REPORT FOR
INSERVICE INSPECTION ACTIVITIES

Reference: Letter from S. A. Greenlee, Indiana Michigan Power Company, to Nuclear Regulatory Commission Document Control Desk, "Donald C. Cook Nuclear Plant Unit 1, NIS-1 Report for Inservice Inspection Activities," submittal C0301-04, dated March 22, 2001

In the referenced letter, Indiana Michigan Power Company (I&M) submitted the summary report for Unit 1 inservice inspection activities. Subsequent to that submittal, I&M determined that some material was inadvertently omitted from the report. The attachment to this letter provides the information that was omitted from the summary report.

This letter contains no new commitments. Should you have any questions, please contact Mr. Gordon P. Arent, Manager of Regulatory Affairs, at (616) 697-5553.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. A. Greenlee', with a stylized flourish at the end.

S. A. Greenlee
Director, Nuclear Technical Services

RV/dmb

Attachment

A047

c: K. D. Curry, w/o attachments
J. E. Dyer
MDEQ – DW & RPD, w/o attachments
NRC Resident Inspector
R. Whale, w/o attachments

ATTACHMENT TO AEP:NRC:2055-03
INSERVICE INSPECTION REPORT ADDENDUM

ADDENDUM
TO
SUMMARY REPORT
FOR THE
DONALD C. COOK NUCLEAR PLANT
UNIT 1
1998 REFUELING OUTAGE

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 1,
BRIDGMAN MI.
COMMERCIAL SERVICE DATE August 23, 1975

Report for Inspection Period
From April 28, 1997 to December 22, 2000

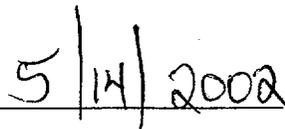
MAY 14, 2002

Prepared by:

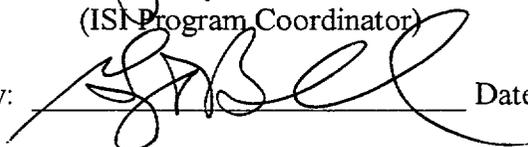

Roy Hall

(ISI Program Coordinator)

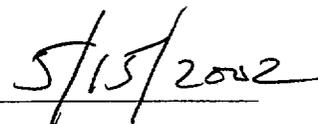
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Reviewed by:



Date:



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INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 1
BRIDGMAN MI.
COMMERCIAL SERVICE DATE 8/23/1975

ADDENDUM

TO

Report of Inservice Inspections
From April 28, 1997 to December 22, 2001

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INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 1,
BRIDGMAN MI.
COMMERCIAL SERVICE DATE 8/23/1975

SECTION 1

INTRODUCTION

This Addendum provides information that was inadvertently omitted from the March 12, 2001 NIS-1 and NIS-2 reports for the Inservice Inspection activities performed at the Donald C. Cook Nuclear Plant, Unit 1, for the period of April 28, 1997 through December 22, 2000.

This report contains information that was inadvertently omitted in Cook's submittal during the duplication process for the above referenced report.

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INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 1
BRIDGMAN MI.
COMMERCIAL SERVICE DATE 8/23/1975

ADDENDUM

TO

SECTION 2

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

During the reporting period of April 28, 1997 to December 22, 2000, inservice inspections were performed on the Unit 1 Containment pressure retaining structure in accordance with Subsections IWE of ASME Section XI, 1992 Edition and 1992 Addenda, and 10 CFR 50.55a.

The following attachment provides a listing of the evaluations of IWE as-found condition results and corrective actions, if any that were performed and inadvertently omitted in the Cook Plant submittal of the NIS-1 dated March 12, 2001.

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.

Prog. Owner: J. M. Fitch

Date: 3/6/01

NIS-1 Attachment Evaluation of IWE As-Found Condition Examination Results

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| Date | Unit | Job Order Activity | Examination Area | Exam. Method | Indications/Conditions that led to Degradation (if rejectable) | Disposition*/ Corr. Actions |
|----------|------|--------------------|---|--------------|---|-----------------------------|
| 12/3/97 | 1 | C43017-20 | Liner/penetrations in RCP 11 Feedthrough Cage | VT-3 | Flaking, rust noted by moisture barrier | Accept |
| 12/3/97 | 1 | C43017-31 | Liner/penetrations in RCP 14 Feedthrough Cage | VT-3 | Flaking, rust noted by moisture barrier | Accept |
| 12/6/97 | 1 | C43017-38 | Liner plate at EL. 725' to 750' | VT-3 | Peeling, discoloration, blistering, light rust w/pitting <1/32" | Accept |
| 12/8/97 | 1 | C43017-38 | Horizontal weld channel at first spray ring header platform to next hor. channel | VT-3 | Blistering, light rust w/no pitting | Accept |
| 12/10/97 | 1 | C43017-38 | Liner plate in area of the polar crane access platform @ EL. 725' to 734' | VT-3 | None | Accept |
| 12/14/97 | 1 | C43017-38 | Liner plate in area of the polar crane access platform @ EL. 725' to 734' | VT-3 | Peeling, blistering, light rust w/no pitting | Accept |
| 12/14/97 | 1 | C43017-39 | Liner between ice condenser walls from EL. 692' to 715' | VT-3 | Peeling, blistering, light rust w/ two pits 1/16"D | Accept |
| 12/18/97 | 1 | C43017-39 | West side of upper airlock @ EL. 650 to below hydrogen recombiner platform | VT-3 | Coating flaking, delamination, surface rust | Accept |
| 12/19/97 | 1 | C43017-37 | Liner plate from CEQ Fan room ceiling up to 652' EL. | VT-3 | Peeling, flaking, surface rust w/no pitting | Accept |
| 12/19/97 | 1 | C43017-39 | Liner plate around equip. hatch opening to stairway and from EL. 652' - 681' | VT-3 | Peeling and loose paint | Accept |
| 12/31/97 | 1 | C43017-39 | West side of upper airlock by glycol pipes @ EL. 682 - 694 | VT-3 | Pitting 1/32" to 1/16"D | Accept |
| 5/28/98 | 1 | C44452-01 | West side of equip. hatch: south wall below 701' platform to below hydrogen recombiner platform | VT-3 | Discoloration, chipping, rust on weld channel welds | Accept |
| 5/28/98 | 1 | C44452-02 | S wall @ EL. 708' to top of ice condenser | VT-3 | Slight water staining | Accept |
| 5/29/98 | 1 | C44452-01 | Below hydrogen recombiner at EL. 690' to 682' and penetrations at EL. 664' and 666' | VT-3 | Light to moderate discoloration | Accept |

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

Prog. Owner: J. M. Fitch

Date: 3/6/01

NIS-1 Attachment Evaluation of IWE As-Found Condition Examination Results

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| Date | Unit | Job Order Activity | Examination Area | Exam Method | Indications/Conditions that led to Degradation (if rejectable) | Disposition/ Corr. Actions |
|----------|------|--------------------|--|-------------|--|----------------------------|
| 5/29/98 | 1 | C44452-02 | East of divider barrier seal except for behind glycol pipe @ EL. 701' - 708' | VT-3 | Light discoloration, two gouge areas 1/32" to 3/32"D | Accept |
| 6/1/98 | 1 | C44452-02 | Behind glycol pipe @ EL. 701' - 708' | VT-3 | Light rust discoloration | Accept |
| 6/11/98 | 1 | C44452-01 | W side of equip. hatch, from El. 650' up to weld channel. | VT-3 | Light rust, flaking, water staining | Accept |
| 6/16/98 | 1 | C44452-01 | W side of equip. hatch, from El. 650' up to weld channel above equip. hatch | VT-3 | Chipping, light rust on divider barrier seal welds | Accept |
| 6/16/98 | 1 | C44452-01 | W side of equip. hatch, from hydrogen skimmer platform down app. 20' | VT-3 | None | Accept |
| 6/16/98 | 1 | C44452-01 | W side of equip. hatch, from El. 701' platform down to hydrogen skimmer platform | VT-3 | None | Accept |
| 6/16/98 | 1 | C44452-02 | W side of equip. hatch, from El. 720' down to 701' platform | VT-3 | Chipping | Accept |
| 6/16/98 | 1 | C44452-02 | W side of equip. hatch, from El. 720' down to App. 2' above ice condenser roof | VT-3 | Chipping, light rust staining | Accept |
| 6/23/98 | 1 | C44452-03 | From structural beam below EL. 650' to weld channel at ice condenser platform | VT-3 | None | Accept |
| 6/25/98 | 1 | C44452-01 | From 1st Column E of W wall, west approx. 10', from H. recombiner platform down to next platform | VT-3 | Chipping | Accept |
| 6/25/98 | 1 | C44452-03 | W side of equip. hatch, 2' E of divider barrier seal to CTS/RHR piping, near ice platform | VT-3 | delamination, surface rust w/no pitting | Accept |
| 10/13/98 | 1 | C46261-04 | Col. 1 to concrete, from first weld up 6' | VT-3 | Delamination, flaking, peeling, chipping | Accept |
| 10/21/98 | 1 | C46818-02 | Curtain support area; Az. 123-0 & 0-67@EL. 715-722 | VT-3 | Rusting, flaking, chipping | See VT-1 |
| 10/22/98 | 1 | C46818-02 | Curtain Support area; Az. 123 to 67, EL. 715'-10" to 712' | VT-3 | Chipping, discoloration, rust | See VT-1 |
| 10/22/98 | 1 | C46818-02 | Curtain Support area; Az. 123 to 67, below support | VT-3 | Discoloration, rust | See VT-1 |
| 10/26/98 | 1 | C46818-02 | Below Curtain Support; Bays 14 - 24 (coated) | VT-1 | None | Accept |
| 10/26/98 | 1 | C46818-02 | Below Curtain Support; Bays 14 - 24 (non-coated) | VT-1 | Pitting/corrosion/grinding <=1/32"D | Accept |
| 10/26/98 | 1 | C46818-02 | Below Curtain Support; Bays 14 - 24 (non-coated) | UT | .377" - .425" Thickness | Accept |

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

Prog. Owner: J.M. Fitch

Date: 3/6/01

NIS-1 Attachment Evaluation of IWE As-Found Condition Examination Results

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| Date | Unit | Job Order Activity | Examination Area | Exam Method | Indications/Conditions that led to Degradation (if rejectable) | Disposition / Corr. Actions |
|----------|------|--------------------|---|-------------|---|-----------------------------|
| 10/29/98 | 1 | C46818-02 | Curtain Support area; Bays 12 & 13, coated below support | VT-1 | None | Accept |
| 10/29/98 | 1 | C46818-02 | Curtain Support area; Bays 12 & 13, non-coated below support | VT-1 | Corrosion/pitting/grinding/arc strikes/undercut <1/32"D | Accept |
| 10/29/98 | 1 | C46878-01 | Behind divider barrier seal@Az. 22,155,195,345,280, | VT-3 | Flaking, delamination, light surface rust, and slight rust bloom | Accept |
| 10/30/98 | 1 | C46818-02 | Curtain support area; Bays 9, 10, & 11 (Non-coated) | VT-1 | Corrosion,pitting,grinding <1/32"D; arc strikes,undercut up to 3/64"D | Accept |
| 10/30/98 | 1 | C46818-02 | Curtain support area; Bays 9, 10, & 11 (coated) | VT-1 | None | Accept |
| 10/30/98 | 1 | C46818-03 | Below Curtain Support; Bays 9 - 13 (non-coated) | UT | .385" - .415" Thickness | Accept |
| 10/31/98 | 1 | C46818-02 | Curtain Support; Bays 5-8 | VT-1 | Grinding/Pitting 1/32"D | Accept |
| 10/31/98 | 1 | C46818-03 | Below Curtain Support; Bays 5 - 8 (non-coated) | UT | .364" - .418" Thickness | Accept |
| 11/3/98 | 1 | C46818-02 | Curtain support area; Bays 1 - 4 (Non-coated) | VT-1 | corrosion, pitting, grinding, arc strikes, undercut <=1/32"D | Accept |
| 11/3/98 | 1 | C46818-02 | Curtain support area; Bays 1 - 4 (coated) | VT-1 | None | Accept |
| 11/3/98 | 1 | C46818-03 | Curtain support area; Bays 1 - 4 (Non-coated) | UT | .365" - .418" Thickness | Accept |
| 11/11/98 | 1 | C45976-01 | Between Col. 22 & 23, 9' above annulus floor, box-shaped area with coating ground off | VT-3 | Light rust staining, borax staining | Accept |
| 11/17/98 | 1 | C44452-01 | AZ. 270 @ EL. 723'-7.5" - 720'-7.5" | VT-3 | Discoloration, chipping | Accept |
| 12/18/98 | 1 | C43017-33 | Col. 1-9 from divider barrier down 7' | VT-3 | Chipped, peeling, gouges up to 1/8"D, light rust | Accept |
| 12/28/98 | 1 | C43017-68 | Near Col. 3,4,5&7 and divider barrier | UT | .405" - .781" Thickness | Accept |
| 1/5/99 | 1 | C43017-68 | Near Col. 3,4,5&7 and divider barrier | VT-1 | Gouges up to 7/64"D | Accept |
| 1/6/99 | 1 | C43017-36 | Liner/penetrations: Col. 8-10, 14-20; EL. 599'-605' | VT-3 | Flaking, delamination | Accept |
| 1/13/99 | 1 | C43017-36 | penetrations: Col. 17-19 | VT-3 | None | Accept |
| 1/29/99 | 1 | C46261-01 | Az. 67-122@ EL.. 694-710 & 715-724; Az. 90@EL. 724-top; Az. 250-275@EL. 757-top | VT-3 | Chipping,peeling, discoloration | Accept |
| 2/3/99 | 1 | C46261-01 | Az. 240-280@ EL. 750-760; Az. 192-235@EL.762-766 | VT-3 | Flaking | Accept |

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

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Prog. Owner: J.M. Fitch
 Date: 3/6/01

**NIS-1 Attachment
 Evaluation of IWE As-Found Condition
 Examination Results**

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| Date | Unit | Job Order Activity | Examination Area | Exam Method | Indications/Conditions that led to Degradation (if rejectable) | Disposition/ Corr. Actions |
|---------|------|--------------------|--|-------------|---|--|
| 2/4/99 | 1 | C43017-36 | Col 20 - 22; EL. 599' - 605' | VT-3 | Flaking | Accept |
| 2/4/99 | 1 | C43017-36 | Col 22 - 27; EL. 599' - 605' | VT-3 | Flaking | Accept |
| 2/6/99 | 1 | C43017-36 | RCDT Fence to Col. 8 penetrations | VT-3 | None | Accept |
| 2/11/99 | 1 | C43017-34 | Penetrations between Col. 8 -10, 14 - 20 | VT-3 | None | Accept |
| 2/28/99 | 1 | C46261-01 | W side of equip. hatch above EL. 680' platform | VT-3 | Chipping, peeling, discoloration, paint cracked with some rust | Accept See VT-1 |
| 3/8/99 | 1 | C43017-36 | Between Col. 10-11, 11-12, 12-13, 13-14 from 1' to 7' above floor. | VT-3 | None | Accept |
| 3/10/99 | 1 | C43017-33 | Col. 2-6 from EL. 612' to 619' | VT-3 | Chipping, flaking, grout covering, ground areas, discoloration | Accept w/followup VT after cleaning |
| 3/10/99 | 1 | C43017-33 | Pen. 1-CPN-17, 26, 20, 84, 21, 24, 25, 71 and liner @ Col. 5-7 | VT-3 | Blistering, flaking, loose rust and pitting min. 3/64"D | See UT/VT-1 |
| 3/12/99 | 1 | C43017-36 | Between Col. 25-26 from 1' to 7' above floor including 1' x 1' by floor | VT-3 | Chipping and light rust, cementious appearing material | Accept w/followup VT after cleaning |
| 3/13/99 | 1 | C43017-33 | Col. 6-10 to Concrete wall from EL. 612' extending 7' up | VT-3 | Chipping, scratches, surface rust, grout covering | Accept w/followup VT after cleaning |
| 3/15/99 | 1 | C43017-36 | Area behind Col. 25 from 1' to 7' above floor after removal of cementious appearing material.. | VT-3 | None | Accept |
| 3/15/99 | 1 | C46261-01 | Area at the EL. 737' platform extending 2' past each end of the platform. | VT-3 | Chipping, bistering, peeling with light rust, undercut 1/16"D, pitting <=1/32"D | Accept |
| 3/24/99 | 1 | C43017-35 | Col. 14-17 from floor up to app. 1' | VT-3 | Chipping | Accept |

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

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Prog. Owner: J.M. Fitchel
 Date: 3/6/01

**NIS-1 Attachment
 Evaluation of IWE As-Found Condition
 Examination Results**

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| Date | Unit | Job Order Activity | Examination Area | Exam Method | Indications/Conditions that led to Degradation (If rejectable) | Disposition/ Corr. Actions |
|---------|------|--------------------|--|-------------|---|----------------------------|
| 3/25/99 | 1 | C46261-01 | Ice condenser divider barrier seal and weld on E. side from EL. 681' up to top of the ice condenser. | VT-1 | None | Accept |
| 4/5/99 | 1 | C43017-36 | Col. 7 to col. 1 from 1' above floor up to 7' (After cleaning) | VT-3 | Flaking | Accept |
| 4/6/99 | 1 | C43017-69 | Col. 2 & 3 @ El. 612' up to 619'; Weld channel 5' left of col. 9 to concrete wall by col.9 @ El. 618'; Pen. 1-CPN-25; liner below 1-CPN-25 @ El. 612' - 614'. | VT-3 | Discoloration, rust stains; arc strikes, pitting, dents <1/32"; two gouges w/depth 1/32" & 5/64" | Accept |
| 4/6/99 | 1 | C43017-69 | 1-CPN-17, 1-CPN-20, 1-CPN-25, 1-CPN-26, 1-CPN-84 | VT-1/UT | Pitting 3/64" to 3/32" depth. Material Thickness of 1.604" to 1.705". Note: Pitting on 1-CPN-25 is on leak test channel (non-IWE) | Accept |
| 4/6/99 | 1 | C43017-33 | Liner plate from Col. 3, 7' right and 5' left, EL. 619' up to 620'; Col. 7 over to the left 7', EL. 619' up to 621'. | VT-3 | Grinding grooves up to 1/32", light discoloration, flaking. | Accept |
| 4/8/99 | 1 | C46261-01 | El. 757' platform @ AZ. 67 deg. Approximate area. | VT-3 | None | Accept |
| 4/9/99 | 1 | C43017-69 | Liner behind Col. 4 & 6 @ El. 612' to 619' | VT-3 | Discoloration, slight rust stain | Accept |
| 4/9/99 | 1 | C46261-01 | Liner from El. 681' platform to El. 693' platform from divider seal to column 26. | VT-3 | None | Accept |
| 4/20/99 | 1 | C43017-34 | Liner from Col.16 -Col. 25, El. 632' to Divider seal | VT-3 | Flaking, rusting with no pitting or liner degradation. | Accept |
| 4/21/99 | 1 | C43017-34 | Liner from El. 637' to El. 632' from Col. 25; AZ 126 to vert. Divider barrier seal at 122. | VT-3 | Flaking and rusting noted. | See VT-1/UT after prep |
| 4/23/99 | 1 | C46261-01 | Liner Plate @ AZ. 332, El. 756' to 763' | VT-3 | Blistering, peeling, light discoloration | Accept |
| 4/23/99 | 1 | C43017-35 | Col. 27 to 16 and Col. 14 to 4 from floor up to app. 1' | VT-3 | None | Accept |
| 5/5/99 | 1 | C43017-35 | Areas: 1) left of Col. 16, AZ 236, 1'-11" above annulus floor. 2) right of col. 17, AZ 220, 11' above annulus floor. 3) midway between col. 26 & 27, 11' above annulus floor. 4) Pen. CPN-15. 5) right of col. 26, AZ 112, 11' above annulus floor. 6) right of col. 26, AZ 122, 11'-6" above floor (annulus). | VT-3 | Rust film, delamination, flaking | Accept |

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

Prog. Owner: J.M. Fitch

Date: 3/6/01

NIS-1 Attachment Evaluation of IWE As-Found Condition Examination Results

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| Date | Unit | Job Order Activity | Examination Area | Exam Method | Indications/Conditions that led to Degradation (if rejectable) | Disposition/ Corr Actions |
|---------|------|--------------------|--|-------------|--|-------------------------------------|
| 5/11/99 | 1 | C43017-35 | Col. 23 thru Col. 20, El. 606' up to 613' | VT-3 | Flaking, peeling, borax, and painted-over cementitious matter | Cleanup required |
| 6/22/99 | 1 | C43017-33 | 1) Liner plate from El. 705' to 720', AZ 67 - 112. 2) Pit @ EL. 715, AZ 90. 3) Pits & gouges @ EL. 715', AZ 95. | VT-3 | Pits | See UT/VT-1 |
| 6/23/99 | 1 | C43017-34 | Liner plate from EL. 612' extending 7' up, concrete wall to col.# 17, col. 17 to 18, 18 to 19, 19 to 20, 20 to 21, 21 to 22, 22 to 23, 23 to 24, 24 to 25, 25 to Transfer canal wall. Also, 1-CPN-18, 1-CPN-19, 1-CPN-27, 1-CPN-85. Also, Between Transfer Canal Wall and Col. 17 at 622' El., located 18" to the left of concrete wall 4' above weld channel. | VT-3 | Minor paint chipping, blistering, flaking. Rust and pitting observed on 1-CPN-18, 19, 27 & 85. | See UT/VT-1 (CR 99-16523) |
| 6/30/99 | 1 | C46261-07 | Pits, gouges, arc strikes @ EL. 715' - 717', AZ. 90 - 95 | UT/VT-1 | Pit depths of 1/32" - 5/64" | Accept |
| 6/30/99 | 1 | C43017-35 | Liner plate behind Accumulator #3, from EL. 612' extending down to first weld channel below the floor slab. Vertical weld channel adjacent col. 17 extending past concrete wall approx. 2' | VT-3 | Light rust with no apparent liner degradation. Cementitious material and embedded dirt noted. | Accept w/followup VT after cleaning |
| 8/17/99 | 1 | C43017-34 | Liner plate near Accumulator #3, concrete wall, left, to col. 17 EL. 619' to 628'. | VT-3 | Chipping, rust with no liner degradation noted. | Accept |
| 9/9/99 | 1 | C50714-03 | EL. 598' Floor-liner seal area at AZ 19, 136, 223, and 311 to left of column 23. | VT-3 | None | Accept |
| 9/10/99 | 1 | C50714-03 | EL. 598' Floor-liner seal area at AZ 147 to left of column 23. | VT-3 | None | Accept |
| 6/12/00 | 1 | C53374-13 | EL. 660' to 716', East side of Ice Condenser | VT-3 | Blistering, rust, no degradation | Accept |
| 6/15/00 | 1 | C53374-13 | EL. 660' to 637', East side of Ice Condenser, extending out 3'. | VT-3 | None | Accept |
| 6/20/00 | 1 | C53374-13 | EL. 650' to 685', West side barrier seal area, extending out 3'. | VT-3 | None | Accept |

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

Prog. Owner: J.M. Fitch

NIS-1 Attachment

3/6/01 12:30 PM

Date: 3-6-01

Evaluation of IWE As-Found Condition Examination Results

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| Date | Unit | Job Order Activity | Examination Area | Exam Method | Indications/Conditions that led to Degradation (if rejectable) | Disposition/ Corr. Actions |
|---------|------|--------------------|--|----------------|---|----------------------------|
| 6/20/00 | 1 | C53374-13 | EL. 637' to 650', West Divider Barrier seal area, extending out 3' | VT-3 | Light discoloration, light loose oxidation, no degradation | Accept |
| 6/23/00 | 1 | C53374-13 | EL. 685' to 716', West side barrier seal area, extending out 3' | VT-3 | Chipped paint, surface rust, no degradation | Accept |
| 6/28/00 | 1 | C53374-17 | EL. 650' to 684', 637' to 650', 694', West divider barrier seal area (Zones 1-650-1A, 1-650-1B, 1-612-25C, 1-612-25B, 1-650-1C) | VT-3 | Minor pitting < 3/64"D, arc strike 1/32"D, gouge 1/32"D, bulge (CR 00-9304) | Accept |
| 6/28/00 | 1 | C53374-12 | EL. 637' to 684', behind divider barrier seal | VT-3 (Limited) | peeling paint, delamination, light discoloration, cementitious material tightly adhered with no discoloration emanating from beneath. No loose oxidation, degradation, or wastage noted. | Accept |
| 7/2/00 | 1 | C53374-17 | EL. 636' 10-1/2", at Horizontal Seal area, after removal of 1/4" plate by grinding | VT-1 | gouges up to 1/16"D | Accept |
| 7/6/00 | 1 | C53374-12 | EL. 637' to 716', behind divider barrier seal, (Zones: 1-612-25B, 1-612-25C, 1-650-1A, 1-650-1B, 1-650-1C, 1-650-4) | VT-3 (Limited) | Peeling paint, delamination, discoloration, light oxidation, cementitious material tightly adhered with no discoloration emanating from beneath. No loose oxidation, degradation, or wastage noted. | Accept |
| 7/6/00 | 1 | C53374-17 | EL. 684' to 694', EL. 694' to 701', EL. 701' to 716'; West divider barrier seal area, extending 6" out from seal. (Zones: 1-650-1B, 1-650-1C, 1-650-4) | VT-1 | Minor pitting < 1/32"D, arc strikes up to 1/32"D | Accept |
| 7/19/00 | 1 | C48305-06 | Liner Plate behind Inspection Ports 1-PORT-01, 1-PORT-02, and 1-PORT-03 | General Visual | None | Accept |
| 8/1/00 | 1 | C48245-01 | Liner plate indication in Zone 1-612-14B | VT-3 | Ref: CR 98-1184: 5/64"D conical impression | Accept |

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

10-84

Prog. Owner: J.M. Fittler
 Date: 3/6/01

NIS-1 Attachment 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 |
|----------|------|--------------------|--|----------------|---|----------------------------|
| 8/3/00 | 1 | C48305-01 | ISI Zones: 1-612-1, 1-612-28A, 1-612-28B, 1-612-25A,B&C, 1-612-26A,B&C, 1-612-27A,B,&C, 1-650-1A,B,&C, 1-650-2A,B,&C, 1-650-3A,B,&C, 1-715-1A,B,&C, 1-715-2A,B,&C, 1-745-1, 1-757-1 | General Visual | None | Accept |
| 8/4/00 | 1 | C48892-05 | ISI Zone: 1-745-001: AZ 315, platform attachment to the liner plate EL. 745' to 755'. | VT-3 | Peeling paint, delamination, chipped paint, cracks in paint, light discoloration. No liner plate degradation. | Accept |
| 8/18/00 | 1 | C53374-13 | ISI Zone: 1-650-3A: EL 657'-6", 3'-0" west of East Vertical Divider Barrier seal, at East ice condenser wall. Welded lug removal area. | VT-1 | Arc strikes (6) with the greatest depth 1/32", gouges (3) up to 3/64"D. | Accept |
| 8/25/00 | 1 | C48305-04 | ISI Zone: 1-598-27, 1-CPN-11, 14, 31, 34, 35, 40, 42, and 66 | General Visual | Glue like material and some debris. Conditions documented and corrected per Costings Program | Accept |
| 8/25/00 | 1 | C48305-05 | ISI Zone: 1-612-10A, 1-612-11A | General Visual | Peeling paint, light discoloration. No evidence of liner degradation. | Accept |
| 8/29/00 | 1 | C43017-35 | Liner plate behind Accumulator #3, from EL. 612' extending down to first weld channel below the floor slab. Vertical weld channel adjacent col. 17 extending over towards col 16 to concrete wall. | VT-3 | Slight discoloration, slight pitting. No evidence of liner degradation. | Accept |
| 9/27/00 | 1 | C43017-35 | Liner and penetrations CPN-82, 69, & 75 located between col. 20; AZ 190 and col. 21; AZ 180 from EL. 605' to 612'. | VT-3 | concrete spatter, light oxidation, flaking paint. | Accept |
| 10/12/00 | 1 | C50418-07 | Liner plate behing CTS piping flange (1-CTS-21, 1-CTS-22) after flanges were spearated for BA concern. | General Visual | Discoloration, blistering and flaking. No liner degradation noted. | Accept |
| 10/14/00 | 1 | C50417-01 | 4' X 4' of liner at EL. 747'. Second CTS platform from the top of dome directly above access ladder south side of containment. | VT-3 | Chipping, slight discoloration. No liner degradation. | Accept |

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

11-89

Prog. Owner: J.M. Fitch

Date: 3/6/01

NIS-1 Attachment Evaluation of IWE As-Found Condition Examination Results

3/6/01 12:30 PM

Page 9 of 9

| Date | Unit | Job Order Activity | Examination Area | Exam Method | Indications/Conditions that led to Degradation (if rejectable) | Disposition/ Corr. Actions |
|----------|------|--------------------|--|----------------|--|---|
| 10/19/00 | 1 | C182460-01 | 1-CPN-81; prior to paint and tape removal | VT-3 | Arc Strikes | See VT-1 dated 10/21/00 |
| 10/21/00 | 1 | C48305-02 | ISI Zones: 1-598-1 to 1-598-26, 1-612-2 to 1-612-9, 1-612-16 to 1-612-24, 1-612-10B, 11B, 12A & B, 13A & B, 14A & B, 15A & B | General Visual | None | Accept |
| 10/21/00 | 1 | C182460-01 | 1-CPN-81; after cleaning | VT-1 | Arc Strikes less than 1/16"D | Accept - Arc strikes to be removed next RFO. (see CR #00298083) |
| 10/26/00 | 1 | C50425-01 | Interior of Lower Containment Airlock | VT-3 | Delamination, paint cracking. No liner degradation noted. | Accept |
| 10/27/00 | 1 | C50425-01 | Exterior of Lower Containment Airlock | VT-3 | Blistering, peeling, flaking. No liner degradation noted. | Accept |
| 11/9/00 | 1 | C43017-35 | Liner plate and penetrations; CPN 69, 75 & 82 between col. 20 & 21 and from EL. 605' to 612'; CPN 58 & 70 between col. 21 & 22 and from EL. 606' to 612'; CPN 77, 38, 39 & 79 between cols. 22 & 23 from EL. 606' to 612'. | VT-3 | None | Accept |
| 11/9/00 | 1 | C50425-01 | Exterior of Lower Containment Airlock | VT-3 | None | Accept |
| 11/15/00 | 1 | R89514-06 | Liner behind divider barrier where seal was removed in Accumulator 1 & 4 area and 2 & 3 areas. Area is normally inaccessible and there is very limited capability of viewing liner. | General Visual | Some debris found and documented under ESAT #00320044 | Accept |
| 11/24/00 | 1 | C48305-07 | 1-CPN-1 Fuel Transfer Tube | General Visual | None | Accept |

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

12-84

13-84

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 1
BRIDGMAN MI.
COMMERCIAL SERVICE DATE 8/23/1975

ADDENDUM

TO

SECTION 3

NIS-2 REPAIR AND REPLACEMENT INDEX

14-84

NIS-2 Repair Replacement Index

Addendum

| COMPONENT | JOB ORDER | DESCRIPTION |
|-------------------|-------------|--------------------------------|
| 1-OME-3-1 | C0053315-01 | Remove/Reinstall RCS Piping |
| 1-OME-3-1 | C0052738-01 | Perform RCS Preps |
| 1-OME-3-2 | C0053316-01 | Remove/Reinstall RCS Piping |
| 1-OME-3-2 | C0052737-01 | Perform RCS Preps |
| 1-OME-3-3 | C0053317-01 | Remove/Reinstall RCS Piping |
| 1-OME-3-3 | C0052739-01 | Perform RCS Preps |
| 1-OME-3-4 | C0053318-01 | Remove/Reinstall RCS Piping |
| 1-OME-3-4 | C0052699-01 | Perform RCS Preps |
| Feedwater | C0052550-01 | Remove/Reinstall FW Loop 1 |
| Feedwater | C0052551-01 | Remove/Reinstall FW Loop 2 |
| Feedwater | C0052552-01 | Remove/Reinstall FW Loop 3 |
| Feedwater | C0052553-01 | Remove/Reinstall FW Loop 4 |
| Main Steam Piping | C0052554-01 | Remove/Reinstall MS Loop 1 |
| Main Steam Piping | C0052555-01 | Remove/Reinstall MS Loop 2 |
| Main Steam Piping | C0052556-01 | Remove/Reinstall MS Loop 3 |
| Main Steam Piping | C0052557-01 | Remove/Reinstall MS Loop 3 |
| Main Steam Piping | C0055051-01 | Remove Isokinetic Probes |
| 1-OME-3-1 | C0052686-01 | Sever Steam Dome |
| 1-OME-3-1 | C0052690-01 | Refurbish Steam Dome |
| 1-OME-3-1 | C0052694-01 | Install Refurbished Steam Dome |
| 1-OME-3-2 | C0052687-01 | Sever Steam Dome |
| 1-OME-3-2 | C0052691-01 | Refurbish Steam Dome |
| 1-OME-3-2 | C0052695-01 | Install Refurbished Steam Dome |

NIS-2 Repair Replacement Index

Addendum

(Continued)

| COMPONENT | JOB ORDER | DESCRIPTION |
|-------------------------------------|------------------|---------------------------------------|
| 1-OME-3-3 | C0052688-01 | Sever Steam Dome |
| 1-OME-3-3 | C0052692-01 | Refurbish Steam Dome |
| 1-OME-3-3 | C0052696-01 | Install Refurbished Steam Dome |
| 1-OME-3-4 | C0052689-01 | Sever Steam Dome |
| 1-OME-3-4 | C0052693-01 | Refurbish Steam Dome |
| 1-OME-3-4 | C0052697-01 | Install Refurbished Steam Dome |
| Blowdown Piping | C0053148-01 | Install BD Loop 1 |
| Blowdown Piping | C0053149-01 | Install BD Loop 2 |
| Blowdown Piping | C0053150-01 | Install BD Loop 3 |
| Blowdown Piping | C0053151-01 | Install BD Loop 4 |
| NSSS Supports | C0053467-01 | RCS Supports and LLR Mods SG#1 |
| NSSS Supports | C0053470-01 | RCS Supports and LLR Mods SG#2 |
| NSSS Supports | C0053471-01 | RCS Supports and LLR Mods SG#3 |
| NSSS Supports | C0053472-01 | RCS Supports and LLR Mods SG#4 |
| Upper Lateral Restraint | C0052524-01 | Remove/Reinstall SG#1 ULR |
| Upper Lateral Restraint | C0052525-01 | Remove/Reinstall SG#2 ULR |
| Upper Lateral Restraint | C0052526-01 | Remove/Reinstall SG#3 ULR |
| Upper Lateral Restraint | C0052527-01 | Remove/Reinstall SG#4 ULR |
| Containment Spray Piping | C0053148-01 | Remove/Reinstall CTS Pipe/Supports |
| Steam Generator #12 (1- OME-3-2) | C0035767-01 | Install Manual Weld Plug |
| | | |

16-84

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK NUCLEAR PLANT, UNIT 1
BRIDGMAN MI.
COMMERCIAL SERVICE DATE 8/23/1975

ADDENDUM

TO

SECTION 4

NIS-2 REPAIR AND REPLACEMENT REPORTS

17-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|-----------------------------|
| C 0053315-01 | P-RC1-321 | REMOVE/REINSTALL RCS PIPING |
| C 0052738-01 | M-PRC-444 | PERFORM RCS PREPS |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-1

3. Work Performed by: Bechtel Construction

4. Identification of System: Reactor Coolant ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. **Identification of Components Repaired or Replaced and Replacement Components**

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification; | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|-------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| Steam Generator | Westinghouse | 1121 | 68 31 | M-96764M AEP RC PC SG1 | 1970 | Repaired | Yes |
| Steam Generator | Babcock & Wilcox | 7803-04 | 195 | M-96764M | 1999 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Primary Side Hydrotest was conducted by the Manufacturer. The Primary Loop welds and Secondary side were tested at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse lower assembly was severed from the Reactor Coolant Piping. A new Lower assembly, manufactured by Babcock & Wilcox was prepared, installed, and connected to the Reactor Coolant Piping by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: J.R. Wertz ASP. ASME R/R Date 3/02/01
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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

M.R. Matusz Commissions Mich 0055, END N&I
Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19 2001

19-84

** Corrected

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

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario, N1R 5V3
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
4. Type: 7803E001 Rev 06 See Att. List #1 See Att. List #1 - 1999
5. ASME Code, Section III, Division 1: 1989 No Addenda 1 See Att. List #2
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - - - - - Revision - - - - - Date - - - - -
7. Remarks: - Secondary Side Hydrostatic Test has not been performed
- Post Hydrostatic Test final NDE has not been performed on the secondary side
- Primary Head, 5176022, Japan Steel Works, Ltd., Muroran Plant, NPT **(Serial no. : 1045, National Board No. 381)
** Section 7, added Serial and National Board No.: List #1, added stud and nut material
8. Nom. thickness (in.) Att. List #3 Min. design thickness (in.) Att. List #3 Dia. ID (ft & in.) Att List #3 Length overall (ft & in.) 43' 10-13/16"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Row 1: (1) 7803-04, 195. Rows 2-25 are empty.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 26-50 are empty.

10. Design pressure See Att. List #4 psi. Temp. See Att. List #4 °F. Hydro. test pressure See Att. List #4 at temp. °F

* 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...

20-84

Corrected

FORM N-2 (Back - Pg. 2 of 4)

Certificate Holder's Serial Nos. 7803-04 through 7803-04

CERTIFICATION OF DESIGN

Design specifications certified by A.W. Maass P.E. State Virginia Reg. no. 020100
Design report* certified by P. R. Neubrand P.E. State Ontario Reg. no. 90423062

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2791 Expires 01/13/2001
Date JAN 19 2000 Name Babcock & Wilcox Canada Signed [Signature]

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 Ontario and employed by Technical Standards and Safety Authority

of Ontario have inspected these items described in this Data Report on NOV 23 1999, 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.

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 JAN 19 2000 signed [Signature] Commissions NB# 8112-B-N.

21-84

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

** Corrected

Certificate Holder's Serial Nos. 7803-04 through 7803-04
National Board Nos. 195 through 195

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
- 2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
- 3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

List #1:

| | Material Specification | Tensile Strength |
|--|------------------------|------------------|
| Primary Side Channel Head including Integral Nozzles | SA-508 CI 3a | 90 ksi |
| Primary Side Inlet Nozzle Safe End | SA-336 CI F316N/F316LN | 80 ksi |
| Primary Side Outlet Nozzle Safe End | SA-336 CI F316N/F316LN | 80 ksi |
| Primary Manway Cover | SA-533 Type B CI 1 | 80 ksi |
| Tubesheet | SA-508 CI 3a | 90 ksi |
| Tubes | SB-163 UNS N06690 | 80 ksi |
| Secondary Side Shell Forgings | SA-508 CI 3a | 90 ksi |
| Secondary Side Shell Cone | SA-508 CI 3a | 90 ksi |
| Secondary Handhole | SA-508 CI 3a | 90 ksi |
| Secondary Side Handhole Cover | SA-533 Type B CI 1 | 80 ksi |
| Recirculation Connection Cover | SA-533 Type B CI 1 | 80 ksi |
| ** Primary Manway Stud | SA-193 Gr B7 | 125 ksi |
| ** Primary Manway Nut | SA-194 Gr 7 | 125 ksi |
| ** Handhole Stud | SA-193 Gr B7 | 125 ksi |
| ** Handhole Nut | SA-194 Gr 7 | 125 ksi |
| ** Recirculation Connection Stud | SA-193 Gr B7 | 125 ksi |
| ** Recirculation Connection Nut | SA-194 Gr 7 | 125 ksi |

List #2:

- Code Case N-20-3 approved 11/30/88
- Code Case N-71-15 approved 12/16/89
- Code Case N-474-1 approved 03/05/90
- Code Case 2142-1 approved 06/05/95
- Code Case 2143-1 approved 06/05/95

22-84

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

Corrected

Page 4 of 4

Certificate Holder's Serial Nos. 7803-04 through 7803-04
 National Board Nos. 195 through 195

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

LIST #3

| | Nominal Thickness | Minimum Design Thickness | Inner Diameter |
|--|-------------------|--------------------------|--|
| Primary Side Channel Head 1) remote from tubesheet 2) at the tubesheet weld | 6.125" | 6.0" | - |
| | 5.9375" | 5.75" | - |
| Tubesheet | 21.25" | 21.0625" | - |
| Tubes | 0.049" | 0.044" | 0.777" Nominal |
| Secondary Shell Cone | 4.0" | 3.875" | 10' 9-5/8" (small end) 14' 0-3/8" (large end) |
| Secondary Side Shell Forgings 1) Shell Section Below Shell Cone 2) Middle Shell Section 3) Thickshell Above Tubesheet 4) Shell Section Above Tubesheet | 3.125" | 3.0" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |
| | 4.1875" | 4.0625" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |

LIST #4

| | Primary Side | Secondary Side |
|------------------------------|--------------|----------------|
| Design Pressure | 2485 psig | 1085 psig |
| Design Temperature | 650 °F | 600 °F |
| Hydrostatic Test Pressure | 3106 psig | - |
| Hydrostatic Test Temperature | 70-100 °F | - |

23-84

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. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-machi, Muroran, Hokkaido, 051 Japan
2. Manufactured for Babcock & Wilcox Industries Ltd., 581 Coronation Blvd., Cambridge, Ontario, Canada NIR 5V3
3. Location of installation Donald C. Cook Nuclear Plant-1, Unit 1, One Cook Place Bridgman, Michigan
4. Type: N147582WA, Rev. 2 SA-508, Cl. 3a Min. 90ksi 1998
5. ASME Code, Section III, Division 1: 1989 No addenda 1
6. Fabricated in accordance with Const. Spec. (Div. 2 only) Revision Date
7. Remarks: Hydrostatic test is not performed in The Japan Steel Works, Ltd. Cladding thickness in min. 0.20" from base metal. Cladding materials are SFA 5.4, AWS Cl. E309L-16+E308L-16 and SFA 5.9 ER309L+ER308L
8. Nom. thickness (in.) 6 1/8" Min. design thickness (in.) 6.125" Dia. ID (ft & in.) 10'-2 3/4" Length overall (ft & in.) 5'-5 5/16"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Includes handwritten entries for items (1) and (3) with dates and serial numbers.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Contains a list of serial numbers from (26) to (50) without data.

10. Design pressure 2485 psig Temp. 650 °F. Hydro. test pressure 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.

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Certificate Holder's Serial Nos. 1045 through -

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2725 Expires July 21, 1998

The Japan Steel Works, Ltd. Date Feb. 25, 1998 Name Muroran Plant Signed M. Goto (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 ILLINOIS and employed by H.S.B.I. & I.Co.

of HARTFORD, CT. have inspected these items described in this Data Report on Feb. 25, 1998, 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 2/25/98 Signed H. Kawabata (Authorized Inspector) Commissions NB # 10145 A.N.S. (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

NAME PLATE REMOVED FOR FURTHER MANUFACTURING ARR. 9, 1998. WILL BE FORWARDED TO CUSTOMER WITH HISTORY DOCKET.

11/19/99

9/9/99 A.N.S.

25-84

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: 8-21-00
P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|-----------------------------|
| C 0053316-01 | P-RC2-322 | REMOVE/REINSTALL RCS PIPING |
| C 0052737-01 | M-PRC-442 | PERFORM RCS PREPS |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-2

3. Work Performed by: Bechtel Construction

4. Identification of System: Reactor Coolant ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|-------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| Steam Generator | Westinghouse | 1122 | 68 32 | M-96765M AEP RC PC SG2 | 1970 | Repaired | Yes |
| Steam Generator | Babcock & Wilcox | 7803-02 | 193 | M-96765M | 1999 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Primary Side Hydrottest was conducted by the Manufacturer. The Primary Loop welds and Secondary side were tested at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse lower assembly was severed from the Reactor Coolant Piping. A new Lower assembly, manufactured by Babcock & Wilcox was prepared, installed, and connected to the Reactor Coolant Piping by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRW, ASP, ASME R/R Date 3/02/01
 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 FACTORY MUTUAL GLOBAL.* OF Jonston, RI.

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

MR. [Signature] Commissions MICH 0255, END N&I
 Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19 2001

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

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario, N1R 5V3
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
4. Type: 7803E001 Rev 06 See Att. List #1 See Att. List #1 1999
5. ASME Code, Section III, Division 1: 1989 No Addenda 1 See Att. List #2
6. Fabricated in accordance with Const. Spec. (Div. 2 only) Revision Date
7. Remarks: - Secondary Side Hydrostatic Test has not been performed
8. Nom. thickness (in.) Att. List #3 Min. design thickness (in.) Att. List #3 Dia. ID (ft & in.) Att List #3 Length overall (ft & in.) 43' 10-13/16"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Row 1: (1) 7803-02, 193.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 26-50.

10. Design pressure See Att. List #4 psi. Temp. See Att. List #4 °F. Hydro. test pressure See Att. List #4 at temp. °F

28-85

Corrected

FORM N-2 (Back - Pg. 2 of 4)

Certificate Holder's Serial Nos. 7803-02 through 7803-02

CERTIFICATION OF DESIGN

Design specifications certified by A.W. Maass (when applicable) P.E. State Virginia Reg. no. 020100
Design report* certified by P. R. Neubrand (when applicable) P.E. State Ontario Reg. no. 90423062

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2791 Expires 01/13/2001
Date JAN 19 2000 Name Babcock & Wilcox Canada (NPT Certificate Holder) Signed [Signature] (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 Ontario and employed by Technical Standards and Safety Authority

of Ontario have inspected these items described in this Data Report on OCT 04 1999, 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 JAN 19 2000 Signed [Signature] (Authorized Inspector) Commissions NB# 8112-B.N. [Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

29-84

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

** Corrected

Page 3 of 4

Certificate Holder's Serial Nos. 7803-02 through 7803-02
National Board Nos. 193 through 193

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
- 2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
- 3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

List #1:

| | Material Specification | Tensile Strength |
|--|------------------------|------------------|
| Primary Side Channel Head including Integral Nozzles | SA-508 CI 3a | 90 ksi |
| Primary Side Inlet Nozzle Safe End | SA-336 CI F316N/F316LN | 80 ksi |
| Primary Side Outlet Nozzle Safe End | SA-336 CI F316N/F316LN | 80 ksi |
| Primary Manway Cover | SA-533 Type B CI 1 | 80 ksi |
| Tubesheet | SA-508 CI 3a | 90 ksi |
| Tubes | SB-163 UNS N06690 | 80 ksi |
| Secondary Side Shell Forgings | SA-508 CI 3a | 90 ksi |
| Secondary Side Shell Cone | SA-508 CI 3a | 90 ksi |
| Secondary Handhole | SA-508 CI 3a | 90 ksi |
| Secondary Side Handhole Cover | SA-533 Type B CI 1 | 80 ksi |
| Recirculation Connection Cover | SA-533 Type B CI 1 | 80 ksi |
| ** Primary Manway Stud | SA-193 Gr B7 | 125 ksi |
| ** Primary Manway Nut | SA-194 Gr 7 | 125 ksi |
| ** Handhole Stud | SA-193 Gr B7 | 125 ksi |
| ** Handhole Nut | SA-194 Gr 7 | 125 ksi |
| ** Recirculation Connection Stud | SA-193 Gr B7 | 125 ksi |
| ** Recirculation Connection Nut | SA-194 Gr 7 | 125 ksi |

List #2:

Code Case N-20-3 approved 11/30/88
Code Case N-71-15 approved 12/16/89
Code Case N-474-1 approved 03/05/90
Code Case 2142-1 approved 06/05/95
Code Case 2143-1 approved 06/05/95

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

Corrected

Certificate Holder's Serial Nos. 7803-02 through 7803-02
 National Board Nos. 193 through 193

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

LIST #3

| | Nominal Thickness | Minimum Design Thickness | Inner Diameter |
|--|-------------------|--------------------------|--|
| Primary Side Channel Head 1) remote from tubesheet 2) at the tubesheet weld | 6.125" | 6.0" | - |
| | 5.9375" | 5.75" | - |
| Tubesheet | 21.25" | 21.0625" | - |
| Tubes | 0.049" | 0.044" | 0.777" Nominal |
| Secondary Shell Cone | 4.0" | 3.875" | 10' 9-5/8" (small end) 14' 0-3/8" (large end) |
| Secondary Side Shell Forgings 1) Shell Section Below Shell Cone 2) Middle Shell Section 3) Thickshell Above Tubesheet 4) Shell Section Above Tubesheet | 3.125" | 3.0" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |
| | 4.1875" | 4.0625" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |

LIST #4

| | Primary Side | Secondary Side |
|------------------------------|--------------|----------------|
| Design Pressure | 2485 psig | 1085 psig |
| Design Temperature | 650 °F | 600 °F |
| Hydrostatic Test Pressure | 3106 psig | - |
| Hydrostatic Test Temperature | 70-100 °F | - |

31-84

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

Manufactured and certified by The Japan Steel Works, Ltd. Muroran Plant/4-Chatsu-machi, Muroran, Hokkaido, 051 Japan
Manufactured for Babcock & Wilcox Industries Ltd, 581 Coronation Blvd., Cambridge, Ontario, Canada N1R 5V3
Location of installation Donald C. Cook Nuclear Plant-1, Unit 1, One Cook Place Bridgman, Michigan
Type: N147852W, Rev. 2 SA508, Cl. 3a Min. 90ksi 1998
ASME Code, Section III, Division: 1989 No addenda 1
Fabricated in accordance with Const. Spec. (Div. 2 only) Revision Date

Remarks: Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness in min. 0.20" from base metal.
Cladding materials are SFA 5.4, AWS Cl. E309L-16+E308L-16 and SFA 5.9 ER309L+ER308L
P.O. No. : P075814 Job No. : FN6-4343
Heat No. : 96W96-1-1 P.C.No. : 2

Nom. thickness (in.) 6 1/8" Min. design thickness (in.) 6.125" Dia. ID (ft & in.) 10'-2 3/4" Length overall (ft & in.) 5'-5 5/16"
When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Includes handwritten entries for items 1 and 2 with dates like July 3, '98.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Contains a list of serial numbers from (26) to (50).

Hydro. test pressure 2485 psi. Temp. 650 °F. Hydro. test pressure at temp. °F (when applicable)

32-84

Certificate Holder's Serial Nos. 1043 through

CERTIFICATION OF DESIGN

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2725 Expires July 21, 1998
Date Jan. 14, 1998 Name The Japan Steel Works, Ltd. Muroran Plant Signed M. Goto (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 ILLINOIS and employed by H.S.B.I. & I.Co. of HARTFORD, CT. have inspected these items described in this Data Report on Jan. 14, 1998 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. 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 losses of any kind arising from or connected with this inspection.

Date 1/14/98 Signed H. Kawabata (Authorized Inspector) Commissions NB # 10145 A.N.S. (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

NAMEPLATE REMOVED FOR FURTHER MANUFACTURING
FEBRUARY 23, 1998 - WILL BE FORWARDED TO
CUSTOMER WITH HISTORY DOCKET.

Signature 09/24/99
Signature ANI. 6112-BN. 99/09/24.

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|-----------------------------|
| C 0053317-01 | P-RC3-323 | REMOVE/REINSTALL RCS PIPING |
| C 0052739-01 | M-PRC-441 | PERFORM RCS PREPS |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-3

3. Work Performed by: Bechtel Construction

4. Identification of System: Reactor Coolant ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. **Identification of Components Repaired or Replaced and Replacement Components**

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|-------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| Steam Generator | Westinghouse | 1123 | 68 33 | M-96766M AEP RC PC SG3 | 1970 | Repaired | Yes |
| Steam Generator | Babcock & Wilcox | 7803-01 | 192 | M-96766M | 1999 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Primary Side Hydrotest was conducted by the Manufacturer. The Primary Loop welds and Secondary side were tested at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse lower assembly was severed from the Reactor Coolant Piping. A new Lower assembly, manufactured by Babcock & Wilcox was prepared, installed, and connected to the Reactor Coolant Piping by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRWortz AEP, ASME R/R Date 3/02/01
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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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 Mich 0055, ENR NFI
Inspector's Signature National Board, State, Province, Endorsements

Date: MARCH 5 19 2001

35-84

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

**Corrected

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario, N1R 5V3
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
4. Type: 7803E001 Rev 06 See Att. List #1 See Att. List #1 - 1999
5. ASME Code, Section III, Division 1: 1989 No Addenda 1 See Att. List #2
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
7. Remarks: - Secondary Side Hydrostatic Test has not been performed
8. Nom. thickness (in.) Att. List #3 Min. design thickness (in.) Att. List #3 Dia. ID (ft & in.) Att List #3 Length overall (ft & in.) 43' 10-13/16"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Row 1: (1) 7803-01, 192.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 26-50.

10. Design pressure See Att. List #4 psi. Temp. See Att. List #4 °F. Hydro. test pressure See Att. List #4 at temp. °F

* 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...

36-84

**Corrected

FORM N-2 (Back - Pg. 2 of 4)

Certificate Holder's Serial Nos. 7803-01 through 7803-01

CERTIFICATION OF DESIGN

Design specifications certified by A.W. Maass (when applicable) P.E. State Virginia Reg. no. 020100
Design report* certified by P. R. Neubrand (when applicable) P.E. State Ontario Reg. no. 90423062

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2791 Expires 01/13/2001
Date JAN 19 2000 Name Babcock & Wilcox Canada Signed [Signature] (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 Ontario and employed by Technical Standards and Safety Authority

of Ontario have inspected these items described in this Data Report on OCT 04 1999, 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 JAN 19 2000 Signed [Signature] (Authorized Inspector) Commissions NB# 8112-B-N. [Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

37-84

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

**Corrected

Certificate Holder's Serial Nos. 7803-01 through 7803-01
National Board Nos. 192 through 192

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
- 2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
- 3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

List #1:

| | Material Specification | Tensile Strength |
|--|------------------------|------------------|
| Primary Side Channel Head including Integral Nozzles | SA-508 Cl 3a | 90 ksi |
| Primary Side Inlet Nozzle Safe End | SA-336 Cl F316N/F316LN | 80 ksi |
| Primary Side Outlet Nozzle Safe End | SA-336 Cl F316N/F316LN | 80 ksi |
| Primary Manway Cover | SA-533 Type B Cl 1 | 80 ksi |
| Tubesheet | SA-508 Cl 3a | 90 ksi |
| Tubes | SB-163 UNS N06690 | 80 ksi |
| Secondary Side Shell Forgings | SA-508 Cl 3a | 90 ksi |
| Secondary Side Shell Cone | SA-508 Cl 3a | 90 ksi |
| Secondary Handhole | SA-508 Cl 3a | 90 ksi |
| Secondary Side Handhole Cover | SA-533 Type B Cl 1 | 80 ksi |
| Recirculation Connection Cover | SA-533 Type B Cl 1 | 80 ksi |
| ** Primary Manway Stud | SA-193 Gr B7 | 125 ksi |
| ** Primary Manway Nut | SA-194 Gr 7 | 125 ksi |
| ** Handhole Stud | SA-193 Gr B7 | 125 ksi |
| ** Handhole Nut | SA-194 Gr 7 | 125 ksi |
| ** Recirculation Connection Stud | SA-193 Gr B7 | 125 ksi |
| ** Recirculation Connection Nut | SA-194 Gr 7 | 125 ksi |

List #2:

- Code Case N-20-3 approved 11/30/88
- Code Case N-71-15 approved 12/16/89
- Code Case N-474-1 approved 03/05/90
- Code Case 2142-1 approved 06/05/95
- Code Case 2143-1 approved 06/05/95

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

**Corrected

Page 4 of 4

Certificate Holder's Serial Nos. 7803-01 through 7803-01
National Board Nos. 192 through 192

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

LIST #3

| | Nominal Thickness | Minimum Design Thickness | Inner Diameter |
|--|-------------------|--------------------------|--|
| Primary Side Channel Head 1) remote from tubesheet 2) at the tubesheet weld | 6.125" | 6.0" | - |
| | 5.9375" | 5.75" | - |
| Tubesheet | 21.25" | 21.0625" | - |
| Tubes | 0.049" | 0.044" | 0.777" Nominal |
| Secondary Shell Cone | 4.0" | 3.875" | 10' 9-5/8" (small end) 14' 0-3/8" (large end) |
| Secondary Side Shell Forgings 1) Shell Section Below Shell Cone 2) Middle Shell Section 3) Thickshell Above Tubesheet 4) Shell Section Above Tubesheet | 3.125" | 3.0" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |
| | 4.1875" | 4.0625" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |

LIST #4

| | Primary Side | Secondary Side |
|------------------------------|--------------|----------------|
| Design Pressure | 2485 psig | 1085 psig |
| Design Temperature | 650 °F | 600 °F |
| Hydrostatic Test Pressure | 3106 psig | - |
| Hydrostatic Test Temperature | 70-100 °F | - |

39-84

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

- 1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-machi, Muroran, Hokkaido, 051 Japan
2. Manufactured for Babcock & Wilcox Industries Ltd., 581 Coronation Blvd., Cambridge, Ontario, Canada NIR 5V3
3. Location of installation Donald C. Cook Nuclear Plant-1, Unit 1, One Cook Place Bridgman, Michigan
4. Type: N147582W, Rev. 2 SA-508, Cl. 3a Min. 90ksi - 1997
5. ASME Code, Section III, Division 1: 1989 No addenda 1
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
7. Remarks: Hydrostatic test is not performed in The Japan Steel Works, Ltd. Cladding thickness is min. 0.20" from base metal. Cladding materials are SFA 5.4, AWS Cl. E309L-16 + E308L-16 and SFA 5.9 ER309L + ER308L. P.O. No. : P075814 Job No. : FN6-4343 Heat No. : 96W95-1-1 P.C.No. : 1
8. Nom. thickness (in.) 6 1/8" Min. design thickness (in.) 6.125" Dia. ID (ft & in.) 10' - 2 3/4" Length overall (ft & in.) 5' - 5 5/16"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Includes handwritten entries for Apr. 6, '98 and 11-9-373-1042.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Serial numbers (26) through (50) are listed in the first column.

Design pressure 2485 psi G Temp. 650 °F. Hydro. test pressure - at temp. °F (when applicable)

* Supplemental information in the form of isca, 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.

40-84

Certificate Holder's Serial Nos. 1042 through

CERTIFICATION OF DESIGN

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2725 Expires July 21, 1998
Date Dec. 5, 1997 Name The Japan Steel Works, Ltd. Muroran Plant Signed M. Goto (authorized representative) M. Goto (NPT Certificate Holder)

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 ILLINOIS and employed by H.S.B.I. & I.Co. of HARTFORD, CT. have inspected these items described in this Data Report on Dec. 5, 1997, 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 12/5/97 Signed H. Kawabata (Authorized Inspector) H. KAWABATA Commissions NB # 10145 A.N.S. (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

NAME PLATE REMOVED FOR FURTHER MANUFACTURING JANUARY 9, 1998 - WILL BE FORWARDED TO CUSTOMER WITH HISTORY DOCKET.

Qualan 09/24/99.

Wimp Don ANI. 8112-B-N. 99/09/24.

41-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|-----------------------------|
| C 0053318-01 | P-RC4-324 | REMOVE/REINSTALL RCS PIPING |
| C 0052699-01 | M-PRC-443 | PERFORM RCS PREPS |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-4

3. Work Performed by: Bechtel Construction

4. Identification of System: Reactor Coolant ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Or Replacement | ASME Code Stamped Yes/No |
|-------------------|----------------------|-------------------------|--------------------|---------------------------|------------|-------------------------|--------------------------|
| Steam Generator | Westinghouse | 1124 | 68 34 | M-96767M AEP RC PC SG4 | 1970 | Repaired | Yes |
| Steam Generator | Babcock & Wilcox | 7803-03 | 194 | M-96767M | 1999 | Replacement | Yes |
| | | | | | | | |
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7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Primary Side Hydrotest was conducted by the Manufacturer. The Primary Loop welds and Secondary side were tested at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse lower assembly was severed from the Reactor Coolant Piping. A new Lower assembly, manufactured by Babcock & Wilcox was prepared, installed, and connected to the Reactor Coolant Piping by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRW REP, ASME R/R Date 3/02/01
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 FACTORY MUTUAL GLOBAL.* OF Jonston, RI.

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

MR. M. M. M. M. Commissions MICH 0055, END N & I
Inspector's Signature National Board, State, Province, Endorsements

Date: MARCH 5 19 2001

43-84

** Corrected

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

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario, N1R 5V3
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
4. Type: 7803E001 Rev 06 See Att. List #1 See Att. List #1 - 1999
5. ASME Code, Section III, Division 1: 1989 No Addenda 1 See Att. List #2
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
7. Remarks: - Secondary Side Hydrostatic Test has not been performed
8. Nom. thickness (in.) Att. List #3 Min. design thickness (in.) Att. List #3 Dia. ID (ft & in.) Att List #3 Length overall (ft & in.) 43' 10-13/16"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Row 1: (1) 7803-03, 194. Rows 2-25 are empty.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 26-50 are empty.

10. Design pressure See Att. List #4 psi. Temp. See Att. List #4 °F. Hydro. test pressure See Att. List #4 at temp. °F

44-84

** Corrected

FORM N-2 (Back - Pg. 2 of 4)

Certificate Holder's Serial Nos. 7803-03 through 7803-03

CERTIFICATION OF DESIGN

Design specifications certified by A.W. Maass (when applicable) P.E. State Virginia Reg. no. 020100
Design report* certified by P. R. Neubrand (when applicable) P.E. State Ontario Reg. no. 90423062

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2791 Expires 01/13/2001
Date JAN 19 2000 Name Babcock & Wilcox Canada (NPT Certificate Holder) Signed [Signature] (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 Ontario and employed by Technical Standards and Safety Authority of Ontario have inspected these items described in this Data Report on NOV 23 1999, 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 JAN 19 2000 Signed [Signature] (Authorized Inspector) Commissions NB# 8112-B-N (Natl. Bd. (incl. endorsements) and state or prov. and no.)

45-84

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

** Corrected

Certificate Holder's Serial Nos. 7803-03 through 7803-03
National Board Nos. 194 through 194

- 1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
- 2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
- 3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

List #1:

| | Material Specification | Tensile Strength |
|--|------------------------|------------------|
| Primary Side Channel Head including Integral Nozzles | SA-508 CI 3a | 90 ksi |
| Primary Side Inlet Nozzle Safe End | SA-336 CI F316N/F316LN | 80 ksi |
| Primary Side Outlet Nozzle Safe End | SA-336 CI F316N/F316LN | 80 ksi |
| Primary Manway Cover | SA-533 Type B CI 1 | 80 ksi |
| Tubesheet | SA-508 CI 3a | 90 ksi |
| Tubes | SB-163 UNS N06690 | 80 ksi |
| Secondary Side Shell Forgings | SA-508 CI 3a | 90 ksi |
| Secondary Side Shell Cone | SA-508 CI 3a | 90 ksi |
| Secondary Handhole | SA-508 CI 3a | 90 ksi |
| Secondary Side Handhole Cover | SA-533 Type B CI 1 | 80 ksi |
| Recirculation Connection Cover | SA-533 Type B CI 1 | 80 ksi |
| ** Primary Manway Stud | SA-193 Gr B7 | 125 ksi |
| ** Primary Manway Nut | SA-194 Gr 7 | 125 ksi |
| ** Handhole Stud | SA-193 Gr B7 | 125 ksi |
| ** Handhole Nut | SA-194 Gr 7 | 125 ksi |
| ** Recirculation Connection Stud | SA-193 Gr B7 | 125 ksi |
| ** Recirculation Connection Nut | SA-194 Gr 7 | 125 ksi |

List #2:

- Code Case N-20-3 approved 11/30/88
- Code Case N-71-15 approved 12/16/89
- Code Case N-474-1 approved 03/05/90
- Code Case 2142-1 approved 06/05/95
- Code Case 2143-1 approved 06/05/95

46-84

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

Corrected

Page 4 of 4

Certificate Holder's Serial Nos. 7803-03 through 7803-03
 National Board Nos. 194 through 194

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario
(name and address of NPT Certificate Holder)
2. Manufactured for Indiana Michigan Power Company, One Cook Place, Bridgman, Michigan, 49106
(name and address of Purchaser)
3. Location of Installation Donald C. Cook Nuclear Plant Unit 1, Bridgman, Michigan
(name and address)

LIST #3

| | Nominal Thickness | Minimum Design Thickness | Inner Diameter |
|--|-------------------|--------------------------|--|
| Primary Side Channel Head 1) remote from tubesheet 2) at the tubesheet weld | 6.125" | 6.0" | - |
| | 5.9375" | 5.75" | - |
| Tubesheet | 21.25" | 21.0625" | - |
| Tubes | 0.049" | 0.044" | 0.777" Nominal |
| Secondary Shell Cone | 4.0" | 3.875" | 10' 9-5/8" (small end) 14' 0-3/8" (large end) |
| Secondary Side Shell Forgings 1) Shell Section Below Shell Cone 2) Middle Shell Section 3) Thickshell Above Tubesheet 4) Shell Section Above Tubesheet | 3.125" | 3.0" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |
| | 4.1875" | 4.0625" | 10' 9-5/8" |
| | 2.6875" | 2.5625" | 10' 9-5/8" |

LIST #4

| | Primary Side | Secondary Side |
|------------------------------|--------------|----------------|
| Design Pressure | 2485 psig | 1085 psig |
| Design Temperature | 650 °F | 600 °F |
| Hydrostatic Test Pressure | 3106 psig | - |
| Hydrostatic Test Temperature | 70-100 °F | - |

47-84

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. . . .

Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-machi, Muroran, Hokkaido, 051 Japan
Manufactured for Babcock & Wilcox Industries Ltd., 581 Coronation Blvd., Cambridge, Ontario, Canada NIR 5V3
Location of installation Donald C. Cook Nuclear Plant-1, Unit 1, One Cook Place Bridgman, Michigan

Type: N147582W, Rev. 2 SA-508, Cl. 3a Min. 90ksi 1998
ASME Code, Section III, Division 1: 1989 No addenda 1
Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -

Remarks: Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness in min. 0.20" from base metal.
Cladding materials are SFA 5.4, AWS Cl. E309L-16+E308L-16 and SFA 5.9 ER309L+ER308L
P.O. No. : P075814 Job No. : FN6-4343
Heat No. : 97D25-1-1 P.C. No. : 3

Nom. thickness (in.) 6 1/8" Min. design thickness (in.) 6.125" Dia. ID (ft & in.) 10'-2 3/4" Length overall (ft & in.) 5'-5 5/16"

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

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Row 1 contains handwritten entries: 1, 377, 1044, July 3, '98, M.P. 1044, 377.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 2-25 are empty.

Design pressure 2485 psig Temp. 650 °F. Hydro. test pressure - at temp. °F

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.

48-84

Certificate Holder's Serial Nos. 1044 through

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF COMPLIANCE

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

ASME Certificate of Authorization No. N-2725 Expires July 21, 1998

Date Jan. 27, 1998 Name The Japan Steel Works, Ltd. Muroran Plant Signed M. Goto (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 ILLINOIS and employed by H.S.B.I. & I.Co. HARTFORD, CT. have inspected these items described in this Data Report on Jan. 27, 1998, 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 stamping 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 Jan 27, 1998 Signed H. KISHIDA (Authorized Inspector) Commissions NB # 10104 N, B (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

NAME PLATE REMOVED FOR FURTHER MANUFACTURING 03/16/98. WILL BE FORWARDED TO CUSTOMER WITH HISTORY DOCKET.

By Paul 11/03/99

99/11/03

49-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|----------------------------|
| C 0052550-01 | P-FW1-311 | REMOVE/REINSTALL FW LOOP 1 |
| C 0052551-01 | P-FW2-312 | REMOVE/REINSTALL FW LOOP 2 |
| C 0052552-01 | P-FW3-313 | REMOVE/REINSTALL FW LOOP 3 |
| C 0052553-01 | P-FW4-314 | REMOVE/REINSTALL FW LOOP 4 |

One Cook Place, Bridgman, MI 49106 Component# FEEDWATER PIPING

3. Work Performed by: Bechtel Construction

4. Identification of System: Feedwater

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. **Identification of Components Repaired or Replaced and Replacement Components**

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Or Replacement | ASME Code Stamped Yes/No |
|------------------------|-------------------------|-------------------------|--------------------|-----------------------------|------------|-------------------------|--------------------------|
| Feedwater Line 1-FW-11 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Feedwater Line 1-FW-13 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Feedwater Line 1-FW-16 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Feedwater Line 1-FW-18 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Elbow/Reducer Assembly | American Electric Power | N/A | N/A | M&E 00-11940 ASP # 22501 | | Replacement | No |
| | | | | | | | |

7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 711 psig @ T_{av}=566°

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Secondary Side Hydrotest was conducted at NOP per Code Case N-416-

Description of Work: The existing Feedwater Elbow(s) and reducer(s) were removed from the system, and replaced with new Elbow and Reducer assemblies.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed: J.R. Darty ASME R/R Date 3/02/01
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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

MA M. Stimpang Commissions MICH 0055, END NFI
Inspector's Signature National Board, State, Province, Endorsements
Date: March 5 19 2001

51-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|----------------------------|
| C 0052554-01 | P-MS1-301 | REMOVE/REINSTALL MS LOOP 1 |
| C 0052555-01 | P-MS2-302 | REMOVE/REINSTALL MS LOOP 2 |
| C 0052556-01 | P-MS3-303 | REMOVE/REINSTALL MS LOOP 3 |
| C 0052557-01 | P-MS4-304 | REMOVE/REINSTALL MS LOOP 4 |
| C 0055051-01 | P-IKP-400 | REMOVE ISOKENETIC PROBES |

One Cook Place, Bridgman, MI 49106 Component# MAIN STEAM PIPING

3. Work Performed by: Bechtel Construction

4. Identification of System: Main Steam

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|----------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See Continuation on Page 3 | | | | | | | |
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7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 711 psig @ T_{av}=566°

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Secondary Side Hydrotest was conducted at NOP per Code Case N-416-

Description of Work: The existing Main Steam Piping was severed at the S/G Nozzle and the second elbow away from the generator, and re-installed at the same location. New half couplings were installed for the re-installation of existing vent piping. Existing Isokenitic sample probes were removed, and new sample connections installed with 2" Sockolets.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: [Signature] AEP, ASME R/R Date 3/02/01
 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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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 MICHIGAN, ENR & I
 Inspector's Signature National Board, State, Province, Endorsements

Date: MARCH 5 ^M19 2001

54-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|--------------------------------|
| C 0052686-01 | M-SDS-411 | SEVER STEAM DOME |
| C 0052690-01 | M-SDR-421 | REFURBISH STEAM DOME |
| C 0052694-01 | M-SDI-431 | INSTALL REFURBISHED STEAM DOME |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-1

3. Work Performed by: Bechtel Construction

4. Identification of System: Main Steam ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|---------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| Steam Generator | Westinghouse | 1121 | 68 32 | M96764M AEP RC PC SG1 | 1970 | Repaired | Yes |
| MS Flow Restrictor Lugs | Babcock & Wilcox | N/A | N/A | M&E 00-12796 ASP #2200 | 1999 | Replacement | No |
| FW Nozzle Transition Ring | Babcock & Wilcox | N/A | N/A | M&E 00-12798 ASP #2200 | 1999 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Secondary side Hydrotest was conducted at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse Steam Dome was severed from the old Lower Assembly, and refurbished, using parts supplied by Babcock & Wilcox. The refurbished Steam Dome was connected to the new Lower Assembly by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: KRWorth ASME R/R Date 3/02/01
 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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-01 to 3-5-01, 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.

Mike Doss Commissions Mich Doss, ENR N&I
 Inspector's Signature National Board, State, Province, Endorsements

Date: MAR 5 19 2001

56-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|--------------------------------|
| C 0052687-01 | M-SDS-412 | SEVER STEAM DOME |
| C 0052691-01 | M-SDR-422 | REFURBISH STEAM DOME |
| C 0052695-01 | M-SDI-432 | INSTALL REFURBISHED STEAM DOME |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-2

3. Work Performed by: Bechtel Construction

4. Identification of System: Main Steam ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. **Identification of Components Repaired or Replaced and Replacement Components**

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|---------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| Steam Generator | Westinghouse | 1122 | 68 32 | M96765M AEP RC PC SG2 | 1970 | Repaired | Yes |
| MS Flow Restrictor Lugs | Babcock & Wilcox | N/A | N/A | M&E 00-12796 ASP #2200 | 1999 | Replacement | No |
| FW Nozzle Transition Ring | Babcock & Wilcox | N/A | N/A | M&E 00-12798 ASP #2200 | 1999 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Secondary side Hydrotest was conducted at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse Steam Dome was severed from the old Lower Assembly, and refurbished, using parts supplied by Babcock & Wilcox. The refurbished Steam Dome was connected to the new Lower Assembly by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRWortz ASP ASME R/R Date 3/02/01
 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 FACTORY MUTUAL GLOBAL.* OF Jonston, RI.

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

MR [Signature] Commissions Mich 0055, END N&I
 Inspector's Signature National Board, State, Province, Endorsements

Date: MARCH 5 th 2001

58-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|--------------------------------|
| C 0052688-01 | M-SDS-413 | SEVER STEAM DOME |
| C 0052692-01 | M-SDR-423 | REFURBISH STEAM DOME |
| C 0052696-01 | M-SDI-433 | INSTALL REFURBISHED STEAM DOME |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-3

3. Work Performed by: Bechtel Construction

4. Identification of System: Main Steam ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|---------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| Steam Generator | Westinghouse | 1123 | 68 33 | M96766M AEP RC PC SG3 | 1970 | Repaired | Yes |
| MS Flow Restrictor Lugs | Babcock & Wilcox | N/A | N/A | M&E 00-12796 ASP #2200 | 1999 | Replacement | No |
| FW Nozzle Transition Ring | Babcock & Wilcox | N/A | N/A | M&E 00-12798 ASP #2200 | 1999 | Replacement | No |
| | | | | | | | |
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7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Secondary side Hydrotest was conducted at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse Steam Dome was severed from the old Lower Assembly, and refurbished, using parts supplied by Babcock & Wilcox. The refurbished Steam Dome was connected to the new Lower Assembly by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: KRW ASP ASME R/R Date 3/02/01
 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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

M R Montross Commissions Mich 0055, ENR N.B.I.
 Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19 2001

60-84

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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|--------------------------------|
| C 0052689-01 | M-SDS-414 | SEVER STEAM DOME |
| C 0052693-01 | M-SDR-424 | REFURBISH STEAM DOME |
| C 0052697-01 | M-SDI-434 | INSTALL REFURBISHED STEAM DOME |

One Cook Place, Bridgman, MI 49106 Component# 1-OME-3-4

3. Work Performed by: Bechtel Construction

4. Identification of System: Main Steam ASME III, Class 1

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|---------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| Steam Generator | Westinghouse | 1124 | 68 34 | M96767M AEP RC PC SG4 | 1970 | Repaired | Yes |
| MS Flow Restrictor Lugs | Babcock & Wilcox | N/A | N/A | M&E 00-12796 ASP #2200 | 1999 | Replacement | No |
| FW Nozzle Transition Ring | Babcock & Wilcox | N/A | N/A | M&E 00-12798 ASP #2200 | 1999 | Replacement | No |
| | | | | | | | |
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7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 2485 PSIG

NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Secondary side Hydrotest was conducted at NOP per Code Case N-416-1

Description of Work: The existing Westinghouse Steam Dome was severed from the old Lower Assembly, and refurbished, using parts supplied by Babcock & Wilcox. The refurbished Steam Dome was connected to the new Lower Assembly by welding.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: [Signature] AEP ASME R/R Date 3/02/01
 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 FACTORY MUTUAL GLOBAL.* OF Jonston, RI.

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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 MICH 0055, END NBT
 Inspector's Signature National Board, State, Province, Endorsements

Date: MARCH 5 19 2001

62-84

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: 8-21-00
P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|-------------------|
| C 0053148-01 | P-BD1-311 | INSTALL BD LOOP 1 |
| C 0053149-01 | P-BD2-312 | INSTALL BD LOOP 2 |
| C 0053150-01 | P-BD3-313 | INSTALL BD LOOP 3 |
| C 0053151-01 | P-BD4-314 | INSTALL BD LOOP 4 |

One Cook Place, Bridgman, MI 49106 Component# BLOWDOWN PIPING

3. Work Performed by: Bechtel Construction
 4. Identification of System: Blowdown
 5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:
ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
 Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See continuation sheet, page 3 | | | | | | | |
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7. Hydrostatic * Pneumatic N/A Nominal Operating Pressure 711 psig @ T_{av}=566°
NDE: PT, RT Pressure: psi Test Temperature F.

* NOTE: The Secondary Side Hydrotest was conducted at NOP per Code Case N-416-

Description of Work: Install Blowdown Piping that was previously removed to support Generator removal.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRWorthington ASCP ASME R/R Date 3/02/01
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 FACTORY MUTUAL GLOBAL.* OF Jonston, RI.

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

M R Whitcomb Commissions Mich 0055, ENR N&I
Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19^M 2001

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Continuation Sheet

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|----------------------------------|-------------------------|---------------------------------------|--------------------|-----------------------------|------------|----------------------------------|--------------------------|
| Blowdown Line: 1-BD-500 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Blowdown Line: 1-BD-501 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Blowdown Line: 1-BD-502 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Blowdown Line: 1-BD-503 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| 2" SCH 80 Pipe, SA-106 GRB | Gulf States Tube | Heat No: 247074 | N/A | N/A | 1998 | Replacement | No |
| 2" 3000# 90 Elbow SA-105 | Bonney Forge | Heat No: 78057 | N/A | N/A | 1998 | Replacement | No |
| 2" 3000# 90 Elbow SA-105 | Bonney Forge | Heat No: 78224 | N/A | N/A | 1998 | Replacement | No |
| 2" 3000# Tee SA-105 | Capital Mfg. Co. | Heat No: R86S | N/A | N/A | 1995 | Replacement | No |
| 2" 3000# Tee SA-105 | Capital Mfg. Co. | Heat No: R-130N | N/A | N/A | 1993 | Replacement | No |
| 2" 3000# Tee SA-105 | Capital Mfg. Co. | Heat No: R-125N | N/A | N/A | 1992 | Replacement | No |
| 2" VALVE | Conval, Inc. | 1-BD-217 | N/A | N/A | 2000 | Replacement | No |
| 2" VALVE | Conval, Inc. | 1-BD-218 | N/A | N/A | 2000 | Replacement | No |
| 2" VALVE | Conval, Inc. | 1-BD-219 | N/A | N/A | 2000 | Replacement | No |
| 2" VALVE | Conval, Inc. | 1-BD-220 | N/A | N/A | 2000 | Replacement | No |
| 2" 600# Flange | Ideal Forging | Heat No: 8866598 Heat Code: S-1045 | N/A | N/A | 1997 | Replacement | No |
| 2" 600# Flange | American Electric Power | Heat No: 4AFG | N/A | M&E 30-021306 ASP #7108 | 2000 | Replacement | No |
| 2" 600# Blind Flange | American Electric Power | Heat No: ARHX | N/A | M&E 30-021285 ASP #13455 | 2000 | Replacement | No |
| 2" 600# Blind Flange | Ideal Forging | Heat No: 8997080 Heat Code: S1227 | N/A | N/A | 1996 | Replacement | No |
| 5/8" x 4" Bolts, SA 193 Gr B7 | Texas Bolt | Heat No: 680S182 | N/A | N/A | 1999 | Replacement | No |
| 5/8" Heavy Hex Nuts SA 194 Gr 2H | Texas Bolt | Heat No: 11418370 | N/A | N/A | 1999 | Replacement | No |
| 2" x 1" Red. Ins. 3000# A-105 | American Electric Power | Heat Code: EXI | N/A | M&E 30-015438 ASP #529 | 2000 | Replacement | No |
| 1" 3000# Pipe Cap SA-105 | Bonney Forge | Heat No: 9103 | N/A | N/A | 1997 | Replacement | No |
| 1" SCH 80 Pipe, SA-106 GRB | Gulf States Tube | Heat No: 203623 | N/A | N/A | 1999 | Replacement | 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: 8-25-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|--------------------------------|
| C 0053467-01 | M-TCS-491 | RCS SUPORTS AND LLR MODS SG #1 |
| C 0053470-01 | M-TCS-492 | RCS SUPORTS AND LLR MODS SG #2 |
| C 0053471-01 | M-TCS-493 | RCS SUPORTS AND LLR MODS SG #3 |
| C 0053472-01 | M-TCS-494 | RCS SUPORTS AND LLR MODS SG #4 |

One Cook Place, Bridgman, MI 49106 Component# NSSS Supports

3. Work Performed by: Bechtel Construction

4. Identification of System: Reactor Coolant

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

ASME SCT. III 1989 Ed NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See continuation sheet, page 3 | | | | | | | |
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7. Hydrostatic Pneumatic N/A Nominal Operating Pressure N/A

NDE: PT, RT Pressure: psi Test Temperature F.

Description of Work: Perform modifications to the SG LLR support frame and Support Columns. Install new foot bolts and shims.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRWorthy AEP, ASME R/R Date 3/02/01
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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

JRWorthy Commissions Mich 0055, END NBI
Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19 2001

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Continuation Sheet

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--|-------------------------------|-------------------------|--------------------|--------------------------|------------|----------------------------------|--------------------------|
| SG#1 LLR Support Frame and Support Columns | N/A | N/A | N/A | N/A | N/A | Repaired | NO |
| SG#2 LLR Support Frame and Support Columns | N/A | N/A | N/A | N/A | N/A | Repaired | NO |
| SG#3 LLR Support Frame and Support Columns | N/A | N/A | N/A | N/A | N/A | Repaired | NO |
| SG#4 LLR Support Frame and Support Columns | N/A | N/A | N/A | N/A | N/A | Repaired | NO |
| Shims | National Steel Service Center | Ht#: U01589 | N/A | N/A | 1990 | Replacement | NO |
| Shims | Lukens | Ht#: D3904 | N/A | N/A | 1997 | Replacement | NO |
| Shims | Gulf States Steel, Inc | Ht#: 7470880 | N/A | N/A | 1999 | Replacement | NO |
| Shims | Huntco Steel, Inc | Ht#: N05881 | N/A | N/A | 1999 | Replacement | NO |
| Shims | Gulf States Steel, Inc | Ht#: 7134549 | N/A | N/A | 1999 | Replacement | NO |
| Foot Bolts | American Electric Power | Ht#: QMC | N/A | M&E 00-12852 ASP #22000 | N/A | Replacement | NO |
| Foot Bolts | American Electric Power | Ht#: QHV | N/A | M&E 00-12852 ASP #22000 | N/A | Replacement | NO |
| Washers | American Electric Power | Ht#: QGT | N/A | M&E 00-12853 ASP #2200 | N/A | Replacement | NO |
| LLR Stif. Plate | Ilyich Iron Works | Ht#: 351411 | N/A | N/A | 1995 | Replacement | NO |
| LLR Stif. Plate | Gulf States Steel, Inc | Ht#: 7470880 | N/A | N/A | 1999 | Replacement | NO |
| LLR Stif. Plate (made from angle) | Ameristeel | Ht#: V01710 | N/A | N/A | 1999 | Replacement | NO |
| LLR Stif. Plate | Gulf States Steel, Inc | Ht#: 7134549 | N/A | N/A | 1999 | Replacement | NO |
| 1/2" Threaded Rod A-36 | MFG Industries, LLC | Ht#: 89318 | N/A | N/A | 1999 | Replacement | NO |
| 1/2" Threaded Rod A-36 | Northwestern Steel & Wire | Ht#: 72402 | N/A | N/A | 1993 | Replacement | NO |
| 1/2" Threaded Rod A-36 | Northwestern Steel & Wire | Ht#: 63783 | N/A | N/A | 1988 | Replacement | NO |
| 1/2" Threaded Rod SA-193-B7 | Republic Engineered Steels | Ht#: 8097943 | N/A | N/A | 1991 | Replacement | NO |
| 1/2" Threaded Rod SA-193-B7 | American Electric Power | N/A | N/A | M&E 30-211590 ASP #21530 | 2000 | Replacement | NO |
| 1/2" Nut, Heavy Hex A-194-2H | Republic Engineered Steels | 8079541 | N/A | N/A | 1991 | Replacement | NO |
| 1/2" Nut, Heavy Hex A-194-2H | American Electric Power | N/A | N/A | M&E 30-046621 ASP #13381 | 2000 | Replacement | NO |
| 1-1/2"-12 Helicoil | American Electric Power | N/A | N/A | M&E 00-12856 ASP #22000 | 1999 | Replacement | NO |

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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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|----------------------------|
| C 0052524-01 | M-ULR-446 | REMOVE/REINSTALL SG# 1 ULR |

One Cook Place, Bridgman, MI 49106 Component# Upper Lateral Restraint

3. Work Performed by: Bechtel Construction

4. Identification of System: UPPER LATERIAL RESTRAINT

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add. Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case _____

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification; | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See continuation sheet, Page 3 | | | | | | | |
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7. Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure _____

NDE: MT Pressure: _____ psi Test Temperature _____ F.

Description of Work: The existing Upper Lateral Support was removed during Steam generator removal by cutting ring into 2 sections. Upon Steam generator replacement the ring was reinstalled by welding a splice plate between the halves. The ring elevation was set and shims were welded to ring to correct elevation locations. The ULR ring was shimmed to the generator using existing thrust block shims. New thrust block shims were installed as required to complete the shimming. Several thrust blocks required damaged lugs to be replaced. The ULR ring was then shimmed to the ULR Bumper steel utilizing existing shims. New bumper shims were installed as required to complete the shimming. Several bearing plate studs were found damaged and replaced with new welded studs and hex nuts. The Snubbers Pin to Pin dimensions were changed by modifying the wall side mounting plate, adding half moon shims and replacing the bolting and washers.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRWorth ASP ASME R/R Date 3/02/01
 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 FACTORY MUTUAL GLOBAL.* OF Jonston, RI.

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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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M.R. Matuszowski Commissions MICH 0055, END N&I
 Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19 2001

70-84

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Continuation Sheet

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|------------------------------|--------------------------|-------------------------|--------------------|--------------------------|------------|----------------------------------|--------------------------|
| ULR ring | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Thrust Block Shims | Huntco Steel, Inc. | Ht# N05881 | N/A | N/A | 2000 | Replacement | No |
| Thrust Block Shims | Gulf States Steel | Ht# 7470880 | N/A | N/A | 1999 | Replacement | No |
| Thrust Block Shims (Tapered) | American Electric Power | HT# U1192 | N/A | M&E 30-153214 ASP #22222 | N/A | Replacement | No |
| Thrust Block Shims (Tapered) | American Electric Power | HT# 2D8035 | N/A | M&E 30-153214 ASP #23502 | N/A | Replacement | No |
| Bumper Block Shims | Gulf States Steel | Ht# 7470880 | N/A | N/A | 1999 | Replacement | No |
| Thrust Block Lugs | Lukens | Ht# D3904 | N/A | N/A | 1997 | Replacement | No |
| Splice Plates | Bethlehem Steel | Ht# R5030/39E | N/A | N/A | 1999 | Replacement | No |
| ULR shims (elevation) | Gulf States Steel | HT# 7471080 | N/A | N/A | 1999 | Replacement | No |
| 1/2" Welded Studs | Northwest Steel and Wire | HT# 63783 | N/A | N/A | 1988 | Replacement | No |
| 1/2" Studs | MGF Industries, LLC | HT# 89318 | N/A | N/A | 1999 | Replacement | No |
| 1/2" Hex Nuts | Nova Machine | HT# 8079541 | N/A | N/A | 1994 | Replacement | No |
| Half moon shims | Lukens Steel | HT# C6096 | N/A | N/A | 1985 | Replacement | No |
| 2" x 10" Hex Bolt | T & T Enterprises | HT# 11457190 | N/A | N/A | 2000 | Replacement | No |
| 2" Heavy Hex Nut | T & T Enterprises | HT# 126457 | N/A | N/A | 2000 | Replacement | No |
| 2" Lock Nut | T & T Enterprises | HT# 126457 | N/A | N/A | 2000 | Replacement | No |
| 2" Flat Washers | Binder Metal Products | HT# B27765 | N/A | N/A | 2000 | Replacement | No |
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71-84

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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: 8-21-00

P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|----------------------------|
| C 0052525-01 | M-ULR-447 | REMOVE/REINSTALL SG# 2 ULR |

One Cook Place, Bridgman, MI 49106 Component# Upper Lateral Restraint

3. Work Performed by: Bechtel Construction

4. Identification of System: UPPER LATERIAL RESTRAINT

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. No Add. Code Case: _____

Code Case: _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case _____

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See Continuation, Page 3 | | | | | | | |
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7. Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure _____

NDE: MT Pressure: _____ psi Test Temperature _____ F.

72-84

Description of Work: The existing Upper Lateral Support was removed during Steam generator removal by cutting ring into 2 sections. Upon Steam generator replacement the ring was reinstalled by welding a splice plate between the halves. The ring elevation was set and shims were welded to ring to correct elevation locations. The ULR ring was shimmed to the generator using existing thrust block shims. New thrust block shims were installed as required to complete the shimming. Several thrust blocks required damaged lugs to be replaced. The ULR ring was then shimmed to the ULR Bumper steel utilizing existing shims. New bumper shims were installed as required to complete the shimming. Several bearing plate studs were found damaged and replace with new welded studs and hex nuts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JRW AEP ASME R/R Date 3/07/01
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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-01 to 3-5-01, 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.

JRW Commissions Mich 0053, ENR NFI
Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19 2001

74-84

~~39~~
REH

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: 8-21-00
P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|----------------------------|
| C 0052526-01 | M-ULR-448 | REMOVE/REINSTALL SG# 3 ULR |

One Cook Place, Bridgman, MI 49106 Component# Upper Lateral Restraint

3. Work Performed by: Bechtel Construction

4. Identification of System: UPPER LATERAL RESTRAINT

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. No Add. Code Case: _____
 _____ Code Case: _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
 Code case _____

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See Continuation, Page 3 | | | | | | | |
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7. Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure _____

NDE: MT Pressure: _____ psi Test Temperature _____ F.

75-84

Description of Work: The existing Upper Lateral Support was removed during Steam generator removal by cutting ring into 2 sections. Upon Steam generator replacement the ring was reinstalled by welding a splice plate between the halves. The ring elevation was set and shims were welded to ring to correct elevation locations. The ULR ring was shimmed to the generator using existing thrust block shims. New thrust block shims were installed as required to complete the shimming. Several thrust blocks required damaged lugs to be replaced. The ULR ring was then shimmed to the ULR Bumper steel utilizing existing shims. New bumper shims were installed as required to complete the shimming. Several bearing plate studs were found damaged and replace with new welded studs and hex nuts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: KR Worley AEP, ASME R/R Date 3/02/01
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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

Michael Muto Commissions Mich 0055, ENR N&I
Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19th 2001

76-84

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Continuation Sheet

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|------------------------------|--------------------------|-------------------------|--------------------|--------------------------|------------|----------------------------------|--------------------------|
| ULR ring | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Thrust Block Shims | Huntco Steel, Inc. | Ht# N05881 | N/A | N/A | 2000 | Replacement | No |
| Thrust Block Shims | Gulf States Steel | Ht# 7470880 | N/A | N/A | 1999 | Replacement | No |
| Thrust Block Shims | National Steel | Ht# U01589 | N/A | N/A | 1990 | Replacement | No |
| Thrust Block Shims (Tapered) | American Electric Power | Ht# U1192 | N/A | M&E 30-153214 ASP #22222 | 2000 | Replacement | No |
| Thrust Block Shims (Tapered) | American Electric Power | HT# 2D8035 | N/A | M&E 30-153214 ASP #23502 | 2000 | Replacement | No |
| Bumper Block Shims | Huntco Steel, Inc. | Ht# N05881 | N/A | N/A | 2000 | Replacement | No |
| Bumper Block Shims | Gulf States Steel | Ht# 7470880 | N/A | N/A | 1999 | Replacement | No |
| Bumper Block Shims | National Steel | Ht# U01589 | N/A | N/A | 1990 | Replacement | No |
| Thrust Block Lugs | Lukens | Ht# D3904 | N/A | N/A | 1997 | Replacement | No |
| Splice Plates | Bethlehem Steel | Ht# R5030/39E | N/A | N/A | 1999 | Replacement | No |
| ULR shims (elevation) | Gulf States Steel | Ht# 7471080 | N/A | N/A | 1999 | Replacement | No |
| ULR shims (elevation) | Gulf States Steel | Ht# 7472409 | N/A | N/A | 2000 | Replacement | No |
| 1/2" Welded Studs | Northwest Steel and Wire | HT# 63783 | N/A | N/A | 1988 | Replacement | No |
| 1/2" Hex Nuts | Nova Machine | HT# 8079541 | N/A | N/A | 1994 | Replacement | No |
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77-84

3E
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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: 8-21-00
P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|----------------------------|
| C 0052527-01 | M-ULR-449 | REMOVE/REINSTALL SG# 4 ULR |

One Cook Place, Bridgman, MI 49106 Component# Upper Lateral Restraint

3. Work Performed by: Bechtel Construction

4. Identification of System: UPPER LATERAL RESTRAINT

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. No Add. Code Case: _____
Code Case: _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda
Code case _____

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification; | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See Continuation, Page 3 | | | | | | | |
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7. Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure _____

NDE: MT Pressure: _____ psi Test Temperature _____ F.

Description of Work: The existing Upper Lateral Support was removed during Steam generator removal by cutting ring into 2 sections. Upon Steam generator replacement the ring was reinstalled by welding a splice plate between the halves. The ring elevation was set and shims were welded to ring to correct elevation locations. The ULR ring was shimmed to the generator using existing thrust block shims. New thrust block shims were installed as required to complete the shimming. Several thrust blocks required damaged lugs to be replaced. The ULR ring was then shimmed to the ULR Bumper steel utilizing existing shims. New bumper shims were installed as required to complete the shimming. Several bearing plate studs were found damaged and replace with new welded studs and hex nuts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: KRWorth REP, ASME R/R Date 3/02/01
 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 **FACTORY MUTUAL GLOBAL.* OF Jonston, RI.**

have inspected the components described in this Owner's Report during the period 2-4-99 to 3-5-01, 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.

MA Mistranovich Commissions MICH 0055, ENCL NBT
 Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 19 2001

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Continuation Sheet

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|------------------------------|--------------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|--------------------------|
| ULR ring | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Thrust Block Shims | Huntco Steel, Inc. | Ht# N05881 | N/A | N/A | 2000 | Replacement | No |
| Thrust Block Shims | Gulf States Steel | Ht# 7470880 | N/A | N/A | 1999 | Replacement | No |
| Thrust Block Shims | National Steel | Ht# U01589 | N/A | N/A | 1990 | Replacement | No |
| Thrust Block Shims (Tapered) | American Electric Power | Ht# 7465650 | N/A | M&E 30-153217 ASP #22500 | 2000 | Replacement | No |
| Bumper Block Shims | Gulf States Steel | Ht# 7470880 | N/A | N/A | 1999 | Replacement | No |
| Bumper Block Shims | National Steel | Ht# U01589 | N/A | N/A | 1990 | Replacement | No |
| Thrust Block Lugs | Lukens | Ht# D3904 | N/A | N/A | 1997 | Replacement | No |
| Splice Plates | Bethlehem Steel | Ht# R5030/39E | N/A | N/A | 1999 | Replacement | No |
| ULR shims (elevation) | Huntco Steel, Inc. | Ht# N05881 | N/A | N/A | 2000 | Replacement | No |
| ULR shims (elevation) | Huntco Steel, Inc. | Ht# N05881 | N/A | Listed in WP&IR as A05881 | 2000 | Replacement | No |
| ULR shims (elevation) | Gulf States Steel | Ht# 7472409 | N/A | N/A | 2000 | Replacement | No |
| 1/2" Welded Studs | Northwest Steel and Wire | HT# 63783 | N/A | N/A | 1988 | Replacement | No |
| 1/2" Hex Nuts | Nova Machine | HT# 8079541 | N/A | N/A | 1994 | Replacement | No |
| Bearing Plate | Lukens | Ht# D3904 | N/A | N/A | 1997 | Replacement | No |
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80-84

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: 8-21-00
P.O. Box 60 Fort Wayne IN 46801 Unit# 1

2. Plant: D.C.Cook Nuclear Power Plant Job Order# SEE BELOW:

| JOB ORDER | WP&IR | DESCRIPTION |
|--------------|-----------|------------------------------------|
| C 0053148-01 | P-CSP-300 | REMOVE/REINSTALL CTS PIPE/SUPPORTS |

One Cook Place, Bridgman, MI 49106 Component# CONTAINMENT SPRAY PIPING

3. Work Performed by: Bechtel Construction

4. Identification of System: Containment Spray

5. (a) Applicable Construction Code: ANSI B31.1, 1983 Ed. NO Add., Code Case:

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda

Code case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------------|----------------------|-------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| See continuation sheet, page 3 | | | | | | | |
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7. Hydrostatic Pneumatic N/A Nominal Operating Pressure 0 psig
NDE: PT, RT Pressure: psi Test Temperature F.

Description of Work: Remove & reinstall Containment Spray Piping and supports.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: JR Woreff AEP, ASME R/TR Date 3/2/01
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 FACTORY MUTUAL GLOBAL.* OF Jonston, RI.

have inspected the components described in this Owner's Report during the period 2/4/99 to 3/5/01, 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.

JR Woreff Commissions Mich 0055, ENR N&I
Inspector's Signature National Board, State, Province, Endorsements

Date: March 5 th 2001

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Continuation Sheet

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification: | Year Built | Repaired Replaced Or Replacement | ASME Code Stamped Yes/No |
|--------------------------------|---------------------------------|--------------------------|--------------------|-----------------------|------------|----------------------------------|--------------------------|
| 6" line 1-CTS 21 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| 6" line 1-CTS 22 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| 8" line 1-CTS 23 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| 8" line 1-CTS 24 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| 6" line 1-CTS 47 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| 6" line 1-CTS 48 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| 6" line 1-CTS 49 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| 6" line 1-CTS 50 | Tubeco | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-V702 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-V722 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-V624 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-V716 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-R718 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-R720 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-R704 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-V703 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GCTS-V717 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| Support 1-GHYS-R-503 | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| 2" 3000# Pipet, SA182 Gr F304 | WFI International, Inc | Heat Code: 862ZNA | N/A | N/A | 1999 | Replacement | No |
| 2" Pipe Plug, SA182 Gr F304 | Alloy Stainless Products Co Inc | Heat Code: XAL | N/A | N/A | 1999 | Replacement | No |
| 5/8" x 6" Fig 137N U-Bolt | N/A | M&E 30-024124 ASP #20611 | N/A | N/A | N/A | Replacement | No |
| 5/8" Threaded Rod A-193 Gr B7 | N/A | M&E 30-211810 ASP #23219 | N/A | N/A | N/A | Replacement | No |
| 5/8" Heavy Hex Nut A-194 Gr 2H | N/A | M&E 30-211882 ASP #21441 | N/A | N/A | N/A | Replacement | No |
| | | | | | | | |

83-84

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code, Section XI

1. Owner Indiana Michigan Power Company Date 12/15/97
Name
One Summit Square, Ft. Wayne, IN 46802
Address
 Sheet 1 of 2

2. Plant Donald C. Cook Unit 1
Name
One Cook Place, Bridgeman, MI 49106
Address
Framatome / J.O.C 35767-01
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed by Framatome Technologies Type Code Symbol Stamp N/A
Name
155 Mill Ridge Road, Lynchburg, VA 24502
Address
 Authorization No. N/A
 Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code Section III, 19 65 Edition, Summer 1966 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 19 89

6. Identification of Components:

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| Steam Gen. #12 | Westinghouse | 1122 | 68-32 | N/A | 1970 | | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work See Remarks

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure _____ psi Test Temp. _____ °F

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



84-84

FORM NIS-2 (Back)

9. Remarks Installed a manual weld plug in steam generator #12 hot leg tube location
row 8, column 19. Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date _____

Signed Harold Behrke OWNERS Date 1-5, 19 98
Owner or Owner's Designee, Title DESIGNER

MICHIGAN REPAIRER 0309-V

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 ARKWRIGHT MUTUAL INS. CO. of Waltham, Ma. have inspected the components described in this Owner's Report during the period 3/25/97 to 3/5/98, 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.

Michael P. [Signature] Commissions MICH. CODE, ENDORSE
Inspector's Signature National Board, State, Province, and Endorsements

Date March 5, 19 98