

NRC-03-082

10CFR50.55a

August 6, 2003

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

KEWAUNEE NUCLEAR POWER PLANT
DOCKET 50-305
LICENSE No. DPR-43
2003 INSERVICE INSPECTION (ISI) SUMMARY REPORT

As required by ASME Boiler and Pressure Vessel Code, Section XI; Code of Federal Regulation 10CFR50.55a; and Wisconsin Administrative Code Department of Commerce, Subchapter V: Chapter Comm. 41.55(3), various ISI examinations were performed as part of the 2003 Refueling Outage. The outage took place from April 5, 2003 through May 11, 2003; i.e. closing of G1. This letter transmits the Inservice Inspection Summary Report as required by paragraph IWA-6230 of Section XI.

Two separate ASME Section XI inservice examination programs are implemented at the KNPP. One program is for pressure retaining piping/vessel and component supports and the other program for the metal containment. The 2003 refueling outage constituted the second inspection year of the third period of the third interval for the piping/vessel and component support program. The 2003 refueling outage was also the second inspection year of the second period of the first interval for the metal containment program. Examinations for the piping/vessel and component support program were performed in accordance with the ASME Boiler and Pressure Vessel Code Section XI 1989 Edition. Examinations for the metal containment program were performed in accordance with the 1992 Edition up to and including the 1992 Addenda of Section XI of the ASME Boiler and Pressure Vessel Code. These requirements were implemented in accordance with the "Kewaunee Nuclear Power Plant Third Ten-Year Inservice Inspection (ISI) Program 1994-2004," "Kewaunee Nuclear Power Plant First 10-Year Inservice Inspection Class MC (ISI) Program 1996-2006," Plant Technical Specifications, and nondestructive examination procedures.

A047

The following items were examined for Class 1, Class 2, Class 3 Components, and their supports:

1. Reactor Vessel Control Rod Drive Mechanisms and ¾" Head Vent Line
2. Regenerative Heat Exchanger Tubesheet to Shell Weld
3. Reactor Coolant Pump Main Flange Bolting, Flange Surfaces, and No. 1 Seal Housing Bolting
4. Reactor Coolant Pump External Casing Weld and Casing Internal Surfaces
5. Reactor Coolant Pump Flywheel
6. Class 1 and Class 2 Piping Welds
7. Class 1, Class 2, Class 3 Piping and Component Supports and Hangers
8. Class 1 and Class 2 Reactor Vessel Conoseal Bolting, Steam Generator Primary Side Manway Bolting, Pressurizer Manway Bolting, Flange Bolting, and Valve Bonnet Bolting
9. Preservice Examination of Class 1 Reactor Coolant Pump Main Flange Bolt
10. Preservice Examination of Class 1 Piping Welds
11. Preservice Examination of Class 1 Valve Bonnet Bolting
12. Preservice Examination of Component Cooling Water Heat Exchangers 1A and 1B Supports
13. Accumulator Tanks 1A and 1B 2", 1," and ¾" Coupling Base Metal
14. Class 1 System Leakage Test
15. Class 2 and Class 3 System Inservice and Functional System Pressure Tests

The following items were examined for the Class MC Reactor Building Containment Vessel:

1. Accessible Surface Areas
2. Circumferential Weld
3. Containment Penetration Bellows
4. Airlocks
5. Seals and Gaskets

The following items were examined in accordance with Kewaunee Nuclear Power Plant Technical Specifications:

1. Eddy Current Testing of Steam Generators

In addition, the following examinations were performed in excess of ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Requirements and included:

1. Portions of the Service Water System were radiographed for wall loss, pits, nodules, and sand, mud or other sediments
2. Balance of plant piping subject to erosion/corrosion was examined by radiographic, ultrasonic, and visual techniques
3. Nuclear Regulatory Commission Order EA-03-009-Issuance of Order Establishing Interim Inspection Requirements For Reactor Pressure Vessel Heads at Pressurized Water Reactors

Please find attached a copy of the following documentation that summarizes the inservice inspection activities and results for the Kewaunee Nuclear Power Plant 2003 Refueling Outage.

1. Summary of recordable indications and a description of how they were dispositioned (Attachment 1)
2. Summary of Class 1 and 2 Repairs and Replacements of Components 1 inch in diameter or smaller (Attachment 2)
3. Form NIS-1 Owner's Report for Inservice Inspections of Class 1, Class 2, and Class 3 Components (Attachment 3)
4. Form NIS-1 Owner's Report for Inservice Inspections for Class MC Components (Attachment 4)
5. Form NIS-2 Owner's Report for Repair or Replacements (61 Total) (Attachment 5)
6. Examination Summary for Scheduled and Augmented Inservice Inspection (ISI) Program (Attachment 6)
7. Examination Summary for Inservice Inspection (ISI) Class MC Program (Attachment 7)
8. Examination Summary for Steam Generator Eddy Current (Attachment 8)
9. Examination Summary for Nuclear Regulatory Commission Order EA-03-009 (Attachment 9)
10. A summary of examinations which were limited by geometric, metallurgical, or design/access restrictions and their associated data sheets (Attachment 10)

The final reports for each of these examinations are on file in the QA/QC Records Vault at the Kewaunee Nuclear Power Plant. These records are available for review as deemed necessary.

Additional Comments

The next Refueling Outage at the Kewaunee Nuclear Power Plant is tentatively scheduled for September 2004.



Thomas Coutu
Site Vice-President, Kewaunee Plant

PEB

Attachment

cc - U.S. NRC - Region III (w/o attach)
U.S. NRC - Senior Resident Inspector (w/o attach)

ATTACHMENT 1

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

Summary of Recordable Indications and Description of Disposition

TABLE 1

| TYPE OR LOCATION OF RECORDABLE INDICATION (RI) | METHOD | NO. OF RI'S |
|---|---------------|--------------------|
| Reactor Vessel Conoseal Bolting | Visual (VT-3) | 2 Conoseals |
| Steam Generator Primary Manway Bolting | Visual (VT-1) | 1 Stud |
| 2" Piping Socket Weld | Surface (PT) | 1 Weld |
| Component Supports and Hangers | Visual (VT-3) | 12 Supports |
| Piping Flange Bolting | Visual (VT-3) | 3 Flanges |
| Valve Bonnet Bolting | Visual (VT-3) | 6 Valves |
| System Pressure Tests | Visual (VT-2) | 16 Items |

Disposition of Class 1, Class 2, and Class 3 indications have been completed in accordance with the rules of ASME Boiler and Pressure Vessel Code Section XI 1989 Edition and ASME Boiler and Pressure Vessel Code Section XI 1992 Edition up to and including 1992 Addenda for Class MC Components. Applicable codes, standards, and engineering criteria were used to disposition indications associated with the non-code-required examinations. Recordable indications for Class 1, Class 2, Class 3 and Class MC have been dispositioned as summarized below:

1. A 0.375" long linear indication (identified as a forging lap) on 2" socket weld RTD-W70S was recorded during performance of liquid penetrant examinations. This Linear Indication was unacceptable per ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Table IWB-3514-2. The linear indication was reduced in size under work order 03-004115 by light filing with a small file, reexamined and accepted with a 0.100" linear acceptable ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Table IWB-3514-2 indication.
2. Visual (VT-1, VT-2, and VT-3) indications recorded on reactor vessel conoseal bolting, steam generator primary side manway bolting, piping flange bolting, valve bonnet bolting, component and piping supports and hangers during system pressure tests were: (1) evaluated and accepted, or (2) repaired, reexamined and accepted by: Nuclear Management Company, LLC; Maintenance, Quality Control, Engineering and Technical Support, or Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.

ATTACHMENT 2

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
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August 6, 2003

Letter from Thomas Coutu (NMC)

To

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**Summary of Class 1 and 2 Repairs and Replacement of Components 1 inch in Diameter of
Smaller**

The following summarizes the repairs and replacements performed following the 2001 Refueling Outage and during the 2003 Refueling Outage by grinding, buffing, filing, cutting, or welding on the Class 1 and Class 2 pressure boundary. These repairs and replacements are in addition to those itemized on the attached Forms "NIS-2 Owner's Report for Repairs or Replacements."

| Component | Class | Reference | Repair/Replacement Method |
|-------------------------------|-------|-----------|--------------------------------------|
| ½" Rupture Disc. RHR-32A-1 | 1 | XK-100-18 | Welding of Replacement Rupture Disc. |

ATTACHMENT 3

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

**Form NIS-1 Owner's Report for Inservice Inspections of Class 1, Class 2, and Class 3
Components**

**FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES**

- 1. OWNER - WISCONSIN PUBLIC SERVICE CORPORATION, 700 NORTH ADAMS,
P.O. BOX 19001, GREEN BAY, WISCONSIN 54307- 9001**
- 2. PLANT – KEWAUNEE, N490 HIGHWAY 42, KEWAUNEE, WISCONSIN 54216-9511**
- 3. PLANT UNIT - NO. 1**
- 4. OWNER CERTIFICATE OF AUTHORIZATION - N/A**
- 5. COMMERCIAL SERVICE DATE - JUNE 16, 1974**
- 6. NATIONAL BOARD NUMBER FOR UNIT - N/A**
- 7. COMPONENTS INSPECTED -**

| <u>COMPONENT OR APPURTENANCE</u> | <u>MANUFACTURER OR INSTALLER</u> | <u>MANUFACTURER OR INSTALLER SERIAL NO.</u> | <u>STATE OR PROVINCE NO.</u> | <u>NATIONAL BOARD NO.</u> |
|--|---|--|---|--------------------------------------|
| Reactor Vessel RV | Combustion Engineering | CE69202 | U11480 | 21010 |
| Pressurizer PZR | Westinghouse | 1151 | U11402 | 68-23 |
| Steam Generator SG- 1A | Westinghouse/ Ansaldo Energia Milano | 1141/ 0202 | U11400 | 68-28/151 |
| Steam Generator SG- 1B | Westinghouse/ Ansaldo Energia Milano | 1142/0201 | U11401 | 68-29/150 |
| Excess Letdown Heat Exchanger AHXL-1A | Sentry | 3996-5E | U11407 | 364 |
| Excess Letdown Heat Exchanger AHXL-1B | Sentry | 3996-6E | U11408 | 365 |
| Class 1 Piping | Texas Pipe Bending | --- | --- | --- |
| Reactor Coolant Pump RCP-1A | Westinghouse | 1A-1-618J871- GO1 | --- | --- |
| Reactor Coolant Pump RCP-1B | Westinghouse | 1B-2-618J871- GO2 | --- | --- |

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|--|----------------------------------|---|---|--|
| Residual Heat Exchanger AHRS1-1A | Joseph Oat and Sons | 1817-1E | U11046 | 344 |
| Residual Heat Exchanger AHRS2-1B | Joseph Oat and Sons | 1817-1F | U11424 | 345 |
| Charging Pump Pulsation Dampener APD-1A | Greer Hydraulics | GNI-1848 | --- | --- |
| Charging Pump Pulsation Dampener APD-1B | Greer Hydraulics | GNI-1846 | --- | --- |
| Charging Pump Pulsation Dampener APD-1C | Greer Hydraulics | GNI-1847 | --- | --- |
| Seal Water Heat Exchanger AHSW | Atlas | 734 | U11404 | 596 |
| Volume Control Tank VCT | Joseph Oat and Sons | 1787-1C | U11425 | 376 |
| Regenerative Heat Exchanger ARG | Joseph Oat and Sons | 1831-13 | U11409 U11410 U11411 | 413 414 415 |

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|---|---|--|---|--------------------------------------|
| Letdown Heat Exchanger AHLD | Atlas | 1206 | U11405 | 1031 |
| Seal Water Injection Filter AFSI-1A | Commercial Filters | 101072 | --- | 1172 |
| Seal Water Injection Filter AFSI-1B | Commercial Filters | 101073 | --- | 1173 |
| Reactor Coolant Filter AFRC | AMF Cuno | 121 | --- | 2616 |
| Seal Water Filter AFSW | AMF Cuno | 123 | --- | 2618 |
| Class 2 Piping | Texas Pipe Bending | --- | --- | --- |
| Charging Pump APCH-1A | Ajax Iron Works | 6578 | --- | --- |
| Charging Pump APCH-1B | Ajax Iron Works | 6576 | --- | --- |
| Charging Pump APCH-1C | Ajax Iron Works | 6577 | --- | --- |
| Charging Pump APCH-1A Suction Stabilizer | Greer Hydraulics | GH1-10234 | --- | 568 |

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|---|---|---|----------------------------------|-------------------------------|
| Charging Pump APCH-1B Suction Stablizer | Greer Hydraulics | GH1-10235 | --- | 569 |
| Charging Pump APCH-1C Suction Stablizer | Greer Hydraulics | GH1-10236 | --- | 570 |
| Residual Heat Removal Pump APRH1-1A | Byron Jackson | 681N0277 | --- | --- |
| Residual Heat Removal Pump APRH2-1B | Byron Jackson | 681N0276 | --- | --- |
| Refueling Water Storage Tank | General American Transportation Company | C-8297/1969 | --- | --- |
| Diesel Generator AHDG-1A Cooling Water Exchangers (2) | ITT Standard Corp. | 750797-01-2 & 750797-01-3 | --- | --- |
| Diesel Generator AHDG-1B Cooling Water Exchangers (2) | ITT Standard Corp. | 750797-01-1 & 750797-01-4 | --- | --- |

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|--|--|--|---|--------------------------------------|
| Auxiliary Feedwater Pump APFM-1A Motor Driven | Pacific Pump | 46573 | --- | --- |
| Auxiliary Feedwater Pump APFM-1B Motor Driven | Pacific Pump | 46574 | --- | --- |
| Auxiliary Feedwater Pump APFT Turbine Driven | Pacific Pump | 46575 | --- | --- |
| Reactor Coolant Pump RCPC-1A Lube Oil Cooler | Perfex Corporation | 723701-1 | --- | 4014 |
| Reactor Coolant Pump RCPC-1B Lube Oil Cooler | Perfex Corporation | 723701-2 | --- | 4015 |
| Class 3 Piping | Texas Pipe Bending | --- | --- | --- |
| Containment Fan Cooler AHCF-1A | Joy Manufacturing and American Air Filter | GF14402 | --- | --- |

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|--|--|--|---|--------------------------------------|
| Containment Fan Cooler AHCF-1B | Joy Manufacturing and American Air Filter | GF14399 | --- | --- |
| Containment Fan Cooler AHCF-1C | Joy Manufacturing and American Air Filter | GF14401 | --- | --- |
| Containment Fan Cooler AHCF-1D | Joy Manufacturing and American Air Filter | GF14400 | --- | --- |
| Safety Injection Pump APSI-1A | Bingham Pump | 290696 | --- | --- |
| Safety Injection Pump APSI-1B | Bingham Pump | 290697 | --- | --- |
| Safety Injection Pump Lube Oil Cooler AHSC-1A | Thermxchanger | X10199A2 | --- | --- |
| Safety Injection Pump Lube Oil Cooler AHSC-1B | Thermxchanger | X10199A3 | --- | --- |

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|---|--------------------------------------|---|----------------------------------|-------------------------------|
| Safety Injection Pump Heat Exchangers (2) AHSC-1A | Borg Warner | 854030:854030 | --- | --- |
| Safety Injection Pump Heat Exchangers (2) AHSC-1B | Borg Warner | 854030:854030 | --- | --- |
| Residual Heat Removal Pump AHRHRP-1A Shaft Seal Heat Exchanger | Borg Warner | 681N0276 | --- | --- |
| Residual Heat Removal Pump AHRHRP-1B Shaft Seal Heat Exchanger | Borg Warner | 681N0276 | --- | --- |
| Accumulator Tank ACC-1A | Wyatt | H-5645-69 | U11397 | --- |
| Accumulator Tank ACC-1B | Wyatt | H-5644-69 | U11398 | --- |
| Containment Spray Pump APCS-1A | Ingersoll Rand | 0670-74 | --- | --- |

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|--|--------------------------------------|---|----------------------------------|-------------------------------|
| Containment Spray Pump APCS-1B | Ingersoll Rand | 0670-75 | --- | --- |
| Containment Spray Pump APCS-1A Gland Seal Cooler | Helliflow | 49486938 | --- | --- |
| Containment Spray Pump APCS-1B Gland Seal Cooler | Helliflow | 6080694 | --- | --- |
| Component Cooling Pump APCC-1A | Ingersoll Dresser Pump Flow Serv. | 0600009 | --- | --- |
| Component Cooling Pump APCC-1B | Ingersoll Dresser Pump Flow Serv. | 0600010 | --- | --- |
| Service Water Pump APSW-1A1 | Worthington Pump | VTP27737 | --- | --- |
| Service Water Pump APSW-1A2 | Worthington Pump | 75 TU-1719-1 | --- | --- |
| Service Water Pump APSW-1B1 | Worthington Pump | VTP27736 | --- | --- |
| Service Water Pump APSW-1B2 | Worthington Pump | VTP27738 | --- | --- |

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|---|----------------------------------|---|------------------------------|---------------------------|
| Spent Fuel Pool Heat Exchanger AHSF | Struther Wells | 1-68-06-1519 | U11445 | --- |
| Main Steam Moisture Separator | Wright Austin | 6230 | X.R. | 6008 |
| Spent Fuel Pool Pump APSF-1A | Gould Pumps | 786A519.1 | --- | --- |
| Spent Fuel Pool Pump APSF-1B | Gould Pumps | 786A519.2 | --- | --- |
| Service Water Pump Strainer ASSW-1A1 | S.P. Kinney Engineers | 2278 | --- | --- |
| Service Water Pump Strainer ASSW-1A2 | S.P. Kinney Engineers | 2279 | --- | --- |
| Service Water Pump Strainer ASSW-1B1 | S.P. Kinney Engineers | 2280 | --- | --- |
| Service Water Pump Strainer ASSW-1B2 | S.P. Kinney Engineers | 2281 | --- | --- |
| Component Cooling Heat Exchanger AHCC1-1A | Engineers and Fabricators Co. | S-26125 | U39499 | 3269 |

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|--|---|--|---|--------------------------------------|
| Component Cooling Heat Exchanger AHCC2-1B | Engineers and Fabricators | S-26126 | U39500 | 3270 |
| Component Cooling Surge Tank ATCS | Sharpsville Steel | 714 | U11421 | 714 |
| Control Room Air Conditioning Unit 1A Coil | Trane Company | K1H202002 | --- | --- |
| Control Room Air Conditioning Unit 1B Coil | Trane Company | K1H202003 | --- | --- |
| Control Room Air Conditioning Expansion Tank 1A | ITT Bell and Gossett | --- | --- | --- |
| Control Room Air Conditioning Expansion Tank 1B | ITT Bell and Gossett | 116013 | --- | --- |

FORM NIS-1 (Back)

8. Examination Dates: May 8, 2002 to May 11, 2003
9. Inspection Period Identification: 3rd
10. Inspection Interval Identification: 3rd
11. Applicable Edition of Section XI: 1989 Addenda: None
12. Date/Revision of Inspection Plan: November 27, 2000/Revision 2
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. Reference Tab C
14. Abstract of Results of Examinations and Tests. Reference Tab B and Tab F
15. Abstract of Corrective Measures. Reference Tab B and Tab F
Utilization of ASME Boiler and Pressure vessel Code Section XI: Code Cases: N-416-1, N-416-2, N-460, N-481, N-491, N-498 and N-498-1.

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

Certificate of Authorization No. (If applicable): NA Expiration Date: NA

Date: May 23 2003 Signed: Wisconsin Public Service By: K. K. K.
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of WISCONSIN and employed by HARTFORD STEAM BOILER CO. of HARTFORD CT. have inspected the components described in this Owner's Report during the period MAY 8, 2002 to MAY 11, 2003, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this 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.

Roger M. M.
Inspector's Signature

Commissions NB 7741 WIS 10024 I, N, IS, A
National Board, State, Province, and Endorsements

Date: May 23 2003

ATTACHMENT 4

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

Form NIS-1 Owner's Report for Inservice Inspections for Class MC Components

**FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES**

- 1. OWNER - WISCONSIN PUBLIC SERVICE CORPORATION, 700 NORTH ADAMS,
P.O. BOX 19001, GREEN BAY, WISCONSIN 54307- 9001**
- 2. PLANT – KEWAUNEE, N490 HIGHWAY 42, KEWAUNEE, WISCONSIN 54216-9511**
- 3. PLANT UNIT - NO. 1**
- 4. OWNER CERTIFICATE OF AUTHORIZATION - N/A**
- 5. COMMERCIAL SERVICE DATE - JUNE 16, 1974**
- 6. NATIONAL BOARD NUMBER FOR UNIT - N/A**
- 7. COMPONENTS INSPECTED -**

| <u>COMPONENT OR APPURTENANCE</u> | <u>MANUFACTURER OR INSTALLER</u> | <u>MANUFACTURER OR INSTALLER SERIAL NO.</u> | <u>STATE OR PROVINCE NO.</u> | <u>NATIONAL BOARD NO.</u> |
|--|--|--|---|--------------------------------------|
| Reactor Building Containment Vessel | Chicago Bridge and Iron Company | C4454 | U11423 | --- |
| Personnel Airlock | Chicago Bridge and Iron Company | C4454 | U11423 | --- |

FORM NIS-1 (Back)

8. Examination Dates: April 5, 2003 to May 11, 2003
9. Inspection Period Identification: 2nd
10. Inspection Interval Identification: 1st
11. Applicable Edition of Section XI: 1992 Addenda: 1992
12. Date/Revision of Inspection Plan: September 25, 2000/Revision 1
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. Reference Tab C
14. Abstract of Results of Examinations and Tests. Reference Tab B and Tab F
15. Abstract of Corrective Measures. Reference Tab B and Tab F

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

Certificate of Authorization No. (If applicable): NA Expiration Date: NA

Date: May 23 2003 Signed: Wisconsin Public Service By: [Signature]
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of WISCONSIN and employed by HARTFORD STEAM BOILER CO. of HARTFORD CT. have inspected the components described in this Owner's Report during the period APRIL 5, 2003 to MAY 11, 2003, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NB 7741 Wis 10024 I, N, IS, A
National Board, State, Province, and Endorsements

Date: May 23 2003

ATTACHMENT 5

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

Form NIS-2 Owner's Report for Repair or Replacement (61 Total)

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 02 Class 3 SERVICE WATER
5. (a) Applicable Construction Code B16.34
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 3/6/2003
Sheet 1 of 2
Unit No. 1
Work Order 01-011101
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|--------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| SW-1041A-2 | CONBRACO INDUSTRIES INC. | NA | NA | SW134-217 | 2002 | REPLACEMENT | N |

7. Description of Work INSTALL NEW CLASS 3 AIR CONDITIONING COOLING WATER SYSTEM 2 1/2" VALVE SW-1041A-2, 2 - 2 1/2" FLANGES AND 2 - 2 1/2" BUTT WELDS.
8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 69 psi Test Temp. 40 deg. F
9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 3/6/2003

Name of Component: SW-1041A-2

Work Order Number: 01-011101

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bakes Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger McGowan
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation Date 5/13/2003
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9511 Work Order 01-016562
3. Work Performed By Nuclear Management Company, LLC Type Code Sym. Stamp NA
700 First Street, Hudson, Wisconsin 54016 Authorization No. NA
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL Expiration Date NA
5. (a) Applicable Construction Code B31.1-1967 Code Case NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RHR-F3 | NF | NA | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR LEAK ON CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM 10" SUCTION FLANGE RHR-F3.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 375 psi Test Temp. 112 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: RHR-F3

Work Order Number: 01-016562

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Duker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Ryan T. Maffei
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 4/25/2003
Sheet 1 of 2
Unit No. 1
Work Order 01-022099
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| FE-626 | VICKERY-SIMMS INC. | NF | NA | 27020 | 1970 | REPAIRED | N |

7. Description of Work REPAIR DUE TO LEAKAGE CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM 10" FLANGE FE-626.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 150 psi Test Temp. 93 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/25/2003

Name of Component: FE-626

Work Order Number: 01-022099

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bakes, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-003489
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| RHR-3B | CRANE COMPANY | NF | NA | AC034-002 | 1972 | REPAIRED | N |

7. Description of Work REPAIR BONNET TO BODY LEAK ON CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM 8" VALVE RHR-3B.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 375 psi Test Temp. 112 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: RHR-3B

Work Order Number: 02-003489

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger M. M. M.
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code SEC. VIII DIV.I-1975
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 9/24/2002
Sheet 1 of 2
Unit No. 1
Work Order 02-004201
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| APD-1C | GREER HYDRAULICS | GHI-1849 | NA | 07002 | 1975 | REPLACEMENT | Y |

7. Description of Work REPLACE DAMPENER SPRING ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1C PULSATION DAMPENER.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 114 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 9/24/2002

Name of Component: APD-1C

Work Order Number: 02-004201

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation Date 9/24/2002
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9511 Work Order 02-004262

3. Work Performed By Nuclear Management Company, LLC Type Code Sym. Stamp NA
700 First Street, Hudson, Wisconsin 54016 Authorization No. NA

4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA

5. (a) Applicable Construction Code SEC. VIII DIV.1-1975 Code Case NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| APD-1A | GREER HYDRAULICS | GHI-1848 | NA | 07000 | 1975 | REPLACEMENT | Y |

7. Description of Work REPLACE DAMPENER SPRING ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1A PULSATION DAMPENER.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 114 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 9/24/2002

Name of Component: APD-1A

Work Order Number: 02-004262

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bukacinski, Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger M. Mignani
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
Date 8/21/2002
Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
Unit No. 1
Work Order 02-004263

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
Type Code Sym. Stamp NA
Authorization No. NA

4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
Expiration Date NA

5. (a) Applicable Construction Code SEC. VIII DIV.1-1975
Code Case NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| APD-1B | GREER HYDRAULICS | GHI-1846 | NA | 07001 | 1975 | REPLACEMENT | Y |

7. Description of Work REPLACE DAMPENER SPRING ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1B PULSATION DAMPENER.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 115 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 8/21/2002

Name of Component: APD-1B

Work Order Number: 02-004263

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Lois M. Gurni
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/13/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-007269

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 23 Class 2 CONTAINMENT SPRAY

Expiration Date NA

5. (a) Applicable Construction Code B16.5-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|------------|------------|------------------------------------|-------------------|
| CI-1003 | WILLIAM POWELL CO. | NF | NA | ICS022-001 | 1968 | REPAIRED | N |

7. Description of Work OPEN FOR INSPECTION CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 2" VALVE CI-1003.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 17.3 psi Test Temp. 78 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: CI-1003

Work Order Number: 02-007269

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger T. Maguire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation Date 5/9/2003
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9511 Work Order 02-007295

3. Work Performed By Nuclear Management Company, LLC Type Code Sym. Stamp NA
700 First Street, Hudson, Wisconsin 54016 Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT Expiration Date NA

5. (a) Applicable Construction Code ASME III-1968 Code Case NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|-----------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| PR-3B | CROSBY, ASHTON GAGE COMPANY | NF | NA | RC008-002 | 1972 | REPAIRED | N |

7. Description of Work REMOVE CLASS 1 REACTOR COOLANT SYSTEM 6" VALVE PR-3B FOR SETPOINT TESTING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: PR-3B

Work Order Number: 02-007295

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bukes / Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Rayn Myer
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/20/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-007418
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| CVC-10 | KEROTEST MFG CORP | NV-143 | NA | CS100-005 | 1973 | REPAIRED | N |

7. Description of Work OPEN FOR INSPECTION CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE CVC-10.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2245 psi Test Temp. 548 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/20/2003

Name of Component: CVC-10

Work Order Number: 02-007418

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Butas Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger Magnus
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/13/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-007419

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 35 Class 1 CHEMICAL AND VOLUME CONTROL

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| CVC-205B | KEROTEST MANUFACTURING | NU321 | NA | CS100-001 | 1973 | REPAIRED | N |

7. Description of Work OPEN FOR INSPECTION CLASS 1 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE CVC-205B.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: CVC-205B

Work Order Number: 02-007419

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dupas, Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Ryan T. Murphy
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation Date 5/13/2003
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9511 Work Order 02-007420
3. Work Performed By Nuclear Management Company, LLC Type Code Sym. Stamp NA
700 First Street, Hudson, Wisconsin 54016 Authorization No. NA
4. Identification of System 35 Class 1 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code B31.1-1967 Code Case NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| CVC-206A | KEROTEST MANUFACTURING | NF | NA | CS100-004 | 1973 | REPAIRED | N |

7. Description of Work OPEN FOR INSPECTION CLASS 1 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE CVC-206A.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: CVC-206A

Work Order Number: 02-007420

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Buckes Insurance Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10-03, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 1 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-007421
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| CVC-206B | KEROTEST MANUFACTURING | NU139 | NA | CS100-003 | 1973 | REPAIRED | N |

7. Description of Work OPEN FOR INSPECTION CLASS 1 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE CVC-206B.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: CVC-206B

Work Order Number: 02-007421

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Dufresne Inservice Inspection Program Owner

Date

June 4

,20 03

Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Ray M. M. M. M.

Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024

National Board, State, Province, and Endorsements

Date

6-10

,20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/9/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-007509

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code SEC. III-1987 ADD.

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1A-HLMWB | ANSALDO ENERGIA MILANO | 0202 | 151 | 00035 | 2000 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 1 REACTOR COOLANT SYSTEM STEAM GENERATOR 1A HOTLEG MANWAY STUD (1).

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1A-HLMWB

Work Order Number: 02-007509

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bubel Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. M. M.
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/9/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-007509

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code SEC.III-1987 ADD.

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1A-CLMWB | ANSALDO ENERGIA MILANO | 0202 | 151 | 00035 | 2000 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 1 REACTOR COLLANT SYSTEM STEAM GENERATOR 1A COLDLEG MANWAY STUDS (2) AND 1 MANWAY NUT..

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1A-CLMWB

Work Order Number: 02-007509

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dukes / Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

Certificate of INSERVICE INSPECTION

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Roger T. Tognini
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/9/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-007509

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code SEC. III-1987 ADD

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1B-HLMWB | ANSALDO ENERGIA MILANO | 0201 | 150 | 00036 | 2000 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 1 REACTOR COOLANT SYSTEM STEAM GENERATOR 1B HOT LEG MANWAY NUT.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1B-HLMWB

Work Order Number: 02-007509

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker / Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

Certificate of INSERVICE INSPECTION

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Roger McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
Date 5/9/2003
Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
Unit No. 1
Work Order 02-007509
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
Type Code Sym. Stamp NA
Authorization No. NA
4. Identification of System 36 Class 1 REACTOR COOLANT
Expiration Date NA
5. (a) Applicable Construction Code SEC. III-1987 ADD.
Code Case NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1B-CLMWB | ANSALDO ENERGIA MILANO | 0201 | 150 | 00036 | 2000 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 1 REACTOR COOLANT SYSTEM STEAM GENERATOR 1B COLD LEG MANWAY STUD (1) AND 4 MANWAY NUTS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1B-CLMWB

Work Order Number: 02-007509

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bakes Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

Certificate of INSERVICE INSPECTION

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Loyn M. M. M.
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 21 Class 2 SPENT FUEL POOL COOLING
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/30/2002
Sheet 1 of 2
Unit No. 1
Work Order 02-007734
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| FPC-1100 | ITT GRINNELL VALVE COMPANY | NF | NA | FPC007-00 | 1970 | REPLACEMENT | N |

7. Description of Work REPLACE DIAPHRAGM ON CLASS 2 SPENT FUEL POOL COOLING AND CLEAN-UP SYSTEM 2" VALVE FPC-1100.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 64 psi Test Temp. 60 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/30/2002

Name of Component: FPC-1100

Work Order Number: 02-007734

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bales, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger Montgomery
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 36 Class 1 REACTOR COOLANT
5. (a) Applicable Construction Code NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/9/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-008856
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RCP-1A | WESTINGHOUSE | 1-618J871-G01 | NA | 00037 | 1970 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 1 REACTOR COOLANT PUMP 1A SHAFT, INTERNALS, SEAL PACKAGE AND MOTOR INCLUDING FLANGE CONNECTIONS TO CLASS 1 SEAL WATER CVC SYSTEM (3 TOTAL), CLASS 3 COMPONENT COOLING WATER SYSTEM (2 TOTAL) AND REPLACE ONE REACTOR COOLANT MAIN FLANGE BOLT.
8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: RCP-1A

Work Order Number: 02-008856

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dukas, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Logan McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 1 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/9/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-008856
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| CVC-F2 | WESTINGHOUSE | NA | NA | NA | 1967 | REPLACEMENT | N |

7. Description of Work REPLACE DAMAGED STUD ON CLASS 1 CHEMICAL AND VOLUME CONTROL SYSTEM 1 1/2" FLANGE CVC-F2.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: CVC-F2

Work Order Number: 02-008856

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Ray M. M. M.
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 05B Class 2 AUXILIARY FEEDWATER
5. (a) Applicable Construction Code B16.34
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-009750
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AFW-4B | FLOWERVE CORP. | AV-169 | NA | F015-002 | 2003 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 2 AUXILIARY FEEDWATER SYSTEM 3" VALVE AFW-4B AND 2 - 3" BUTT WELD.

8. Tests conducted
- | | | | | | | | |
|-------------|--------------------------|-----------|--------------------------|----------------------------|-------------------------------------|--------|--------------------------|
| Hydrostatic | <input type="checkbox"/> | Pneumatic | <input type="checkbox"/> | Nominal Operating Pressure | <input checked="" type="checkbox"/> | Exempt | <input type="checkbox"/> |
| Other | <input type="checkbox"/> | Pressure | <u>963</u> psi | Test Temp. | <u>98</u> deg. F | | |

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: AFW-4B

Work Order Number: 02-009750

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Duker, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger M. Myni
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

4. Identification of System 05B Class 2 AUXILIARY FEEDWATER

5. (a) Applicable Construction Code B16.34

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/13/2003

Sheet 1 of 2

Unit No. 1

Work Order 02-009751

Type Code Sym. Stamp NA

Authorization No. NA

Expiration Date NA

Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AFW-4A | FLOWERVE CORP. | AV-168 | NA | F015-001 | 2003 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 2 AUXILIARY FEEDWATER SYSTEM 3" VALVE AFW-4A AND 2 - 3" BUTT WELDS AND ADD AN ADDITIONAL 3" BUTT WELD.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

 Other ☐ Pressure 971 psi Test Temp. 96 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SCETION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: AFW-4A

Work Order Number: 02-009751

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bales Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Logan Matyurin
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 05B Class 3 AUXILIARY FEEDWATER
5. (a) Applicable Construction Code B16.34
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/21/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-011096
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AFW-1C | FLOWERVE CORPORATION | AV-167 | NA | F016-001 | 2003 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 3 AUXILIARY FEEDWATER SYSTEM 3" VALVE AFW-1C AND 2 - 3" BUTT WELDS AND ADD AN ADDITIONAL 3" BUTT WELD.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
- Other ☐ Pressure 1730 psi Test Temp. 87 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/21/2003

Name of Component: AFW-1C

Work Order Number: 02-011096

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. DePas Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. Quinn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-011097

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 05B Class 3 AUXILIARY FEEDWATER

Expiration Date NA

5. (a) Applicable Construction Code B16.34

Code Case N-416-1

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AFW-1B | FLOWERVE CORP. | AV-166 | NA | F016-006 | 2003 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 3 AUXILIARY FEEDWATER SYSTEM 3" VALVE AFW-1B AND 4 - 3" BUTT WELDS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 1770 psi Test Temp. 78 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: AFW-1B

Work Order Number: 02-011097

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. DeKes Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 05B Class 3 AUXILIARY FEEDWATER
5. (a) Applicable Construction Code B16.34
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-011098
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AFW-1A | FLOWERVE CORP. | AV-165 | NA | F016-003 | 2003 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 3 AUXILIARY FEEDWATER SYSTEM 3" VALVE AFW-1A AND 2 - 3" BUTT WELDS AND ADD AN ADDITIONAL 1 - 3" BUTT WELD.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
- Other ☐ Pressure 1700 psi Test Temp. 76.8 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: AFW-1A

Work Order Number: 02-011098

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Burke, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Ryan McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 3/27/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-011100

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 02 Class 3 SERVICE WATER

Expiration Date NA

5. (a) Applicable Construction Code B16.34

Code Case N-416-1

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|--------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| SW-1041B-2 | CONBRACO INDUSTRIAL INC. | NA | NA | SW134-218 | 2002 | REPLACEMENT | N |

7. Description of Work INSTALL NEW CLASS 3 AIR CONDITIONING COOLING WATER SYSTEM 2 1/2" VALVE SW-1041B-2, 2 - 2 1/2" FLANGES AND 2 - 2 1/2" BUTT WELDS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 71 psi Test Temp. 44.3 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 3/27/2003

Name of Component: SW-1041B-2

Work Order Number: 02-011100

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dutka Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. G. W.
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation Date 5/13/2003
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9511 Work Order 02-012745
3. Work Performed By Nuclear Management Company, LLC Type Code Sym. Stamp NA
700 First Street, Hudson, Wisconsin 54016 Authorization No. NA
4. Identification of System 36 Class 1 REACTOR COOLANT Expiration Date NA
5. (a) Applicable Construction Code ANSI B16.34 Code Case N-416-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| PR-1B | FLOWERVE CORP. | NBR AV-266 | NA | RC018-002 | 2003 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 1 REACTOR COOLANT SYSTEM 3" VALVE PR-1B AND 2 - 3" BUTT WELDS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: PR-1B

Work Order Number: 02-012745

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Butera Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Royce T. M. [Signature]
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 36 Class 1 REACTOR COOLANT
5. (a) Applicable Construction Code ANSI B16.34
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-012746
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| PR-1A | FLOWSERVE CORP. | NBR AV-265 | NA | RC018-001 | 2003 | REPLACEMENT | N |

7. Description of Work REPLACE CLASS 1 REACTOR COOLANT SYSTEM 3" VALVE PR-1A AND 2 - 3" BUTT WELDS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: PR-1A

Work Order Number: 02-012746

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Duker, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Logan M. M... ..
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-012820
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| CVC-261 | CROSBY ASHTON GAGE CO. | NF | NA | CS108-001 | 1971 | REPAIRED | N |

7. Description of Work REMOVE FOR SET POINT TESTING CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE CVC-216.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 19 psi Test Temp. 165 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: CVC-261

Work Order Number: 02-012820

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Buter Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger W. Wynn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation Date 5/13/2003
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9511 Work Order 02-012821
3. Work Performed By Nuclear Management Company, LLC Type Code Sym. Stamp NA
700 First Street, Hudson, Wisconsin 54016 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code B31.1-1967 Code Case NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|-------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| CVC-40 | CROSBY VALVE & GAGE CO. | 51036 M2 | NA | CS015-001 | 1971 | REPAIRED | N |

7. Description of Work REMOVE FOR SETPOINT TESTING CLASS 2 CHEMICAL AND VOLUME SYSTEM 3" VALVE CVC-40.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 22 psi Test Temp. 86 deg. F

9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: CVC-40

Work Order Number: 02-012821

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker, Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Logan McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/9/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-012885

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 06 Class 2 MAIN STEAM AND STEAM DUMP

Expiration Date NA

5. (a) Applicable Construction Code ASME III CL. C-1966

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|--------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1A (CLASS 2) | WESTINGHOUSE | 1141 | 68-28 | 00035 | 1968 | REPAIRED | Y |

7. Description of Work OPEN FOR INSPECTION CLASS 2 MAIN AUXILIARY STEAM AND STEAM DUMP SYSTEM STEAM GENERATOR
1A SECONDARY SIDE MANWAYS INCLUDING REPLACING 4 BOLTS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 1021 psi Test Temp. 547 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1A (CLASS 2)

Work Order Number: 02-012885

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bakes Inservice Inspection Program Owner

Date

June 4

,20 03

Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McIntyre
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024

National Board, State, Province, and Endorsements

Date

6-10

,20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 06 Class 2 MAIN STEAM AND STEAM DUMP
5. (a) Applicable Construction Code ASME III CL. C-1966
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

Date 5/9/2003

Sheet 1 of 2

Unit No. 1

Work Order 02-012891

Type Code Sym. Stamp NA

Authorization No. NA

Expiration Date NA

Code Case NA

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|------------------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1A (CLASS WESTINGHOUSE 2) | | 1141 | 68-28 | 00035 | 1968 | REPAIRED | Y |

7. Description of Work OPEN FOR INSPECTION CLASS 2 MAIN AUXILIARY STEAM AND STEAM DUMP SYSTEM STEAM GENERATOR 1A SECONDARY SIDE HAND HOLES.

8. Tests conducted
- | | | | | | | | |
|-------------|--------------------------|-----------|--------------------------|----------------------------|-------------------------------------|--------|--------------------------|
| Hydrostatic | <input type="checkbox"/> | Pneumatic | <input type="checkbox"/> | Nominal Operating Pressure | <input checked="" type="checkbox"/> | Exempt | <input type="checkbox"/> |
| Other | <input type="checkbox"/> | Pressure | <u>1021</u> psi | Test Temp. | <u>547</u> deg. F | | |

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1A (CLASS 2)

Work Order Number: 02-012891

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillips C. Baker Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10-03, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 06 Class 2 MAIN STEAM AND STEAM DUMP
5. (a) Applicable Construction Code ASME III CL.C-1966
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/9/2003
Sheet 1 of 2
Unit No. 1
Work Order 02-012892
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|------------------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1B (CLASS WESTINGHOUSE 2) | | 1142 | 68-29 | 00036 | 1968 | REPLACEMENT | Y |

7. Description of Work OPEN FOR INSPECTION CLASS 2 MAIN AUXILIARY STEAM AND STEAM DUMP SYSTEM STEAM GENERATOR 1B SECONDARY SIDE MANWAYS INCLUDING REPLACING 2 BOLTS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
- Other ☐ Pressure 1006 psi Test Temp. 545 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1B (CLASS 2)

Work Order Number: 02-012892

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bales Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Raymond McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/9/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 02-012898

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 06 Class 2 MAIN STEAM AND STEAM DUMP

Expiration Date NA

5. (a) Applicable Construction Code ASME III CL.C-1966

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|------------------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-1B (CLASS WESTINGHOUSE 2) | | 1142 | 68-29 | 00036 | 1968 | REPAIRED | Y |

7. Description of Work OPEN FOR INSPECTION CLASS 2 MAIN AUXILIARY STEAM AND STEAM DUMP SYSTEM STEAM GENERATOR 1B SECONDARY SIDE HAND HOLES.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 1006 psi Test Temp. 545 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: SG-1B (CLASS 2)

Work Order Number: 02-012898

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Butkus, Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Ryan McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 4/17/2003Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1Work Order 02-012937

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NAAuthorization No. NA4. Identification of System 23 Class 2 CONTAINMENT SPRAYExpiration Date NA5. (a) Applicable Construction Code B16.5-1967Code Case NA(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------------|-------------------------|--------------------|------------|------------|------------------------------------|-------------------|
| ICS-8A | ANCHOR/DARLING VALVE COMPANY | EB992-1-1 | NA | ICS004-005 | 1970 | REPAIRED | N |

7. Description of Work OPEN FOR REPAIR CLASS 2 CONTAINMENT SPRAY SYSTEM 6" VALVE ICS-8A.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 275 psi Test Temp. 71.5 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/17/2003

Name of Component: ICS-8A

Work Order Number: 02-012937

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 8-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Regan McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1Work Order 03-000176

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NAAuthorization No. NA4. Identification of System 02 Class SERVICE WATERExpiration Date NA5. (a) Applicable Construction Code B31.1-1967Code Case N-416-1(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SW-1038B PIPING | NUCLEAR MANAGEMENT COMPANY | NA | NA | NA | 2003 | REPLACEMENT | N |

7. Description of Work REINSTALLATION OF CLASS 3 SERVICE WATER SYSTEM 4" PIPING AND 4" WELDS FOR SERVICE WATER SYSTEM TRAINN B NEAR VALVE SW-1038B.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 104 psi Test Temp. 50 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: SW-1038B PIPING

Work Order Number: 03-000176

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dubes Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Ryan T. Johnson
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 02 Class 3 SERVICE WATER
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 4/29/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-000177
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SW-1043A PIPING | NUCLEAR MANAGEMENT COMPANY | NA | NA | NA | 2003 | REPLACEMENT | N |

7. Description of Work REINSTALLATION OF CLASS 3 SERVICE WATER SYSTEM 3" PIPING AND 3" WELDS FOR SERVICE WATER SYSTEM TRAIN A NEAR VALVE SW-1043A.
8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 102 psi Test Temp. 50 deg. F
9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/29/2003

Name of Component: SW-1043A PIPING

Work Order Number: 03-000177

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Boyd McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 02 Class 3 SERVICE WATER
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 4/29/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-000177
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SW-1038A PIPING | NUCLEAR MANAGEMENT COMPANY | NA | NA | NA | 2003 | REPLACEMENT | N |

7. Description of Work REINSTALLATION OF CLASS 3 SERVICE WATER SYSTEM 4" PIPING AND 4" WELD FOR SERVICE WATER SYSTEM TRAIN A NEAR VALVE SW-1038A.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 102 psi Test Temp. 50 deg. F

9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/29/2003

Name of Component: SW-1038A PIPING

Work Order Number: 03-000177

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. Munn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
Date 5/5/2003
Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
Unit No. 1
Work Order 03-000420

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
Type Code Sym. Stamp NA
Authorization No. NA

4. Identification of System 31 Class 3 COMPONENT COOLING
Expiration Date NA

5. (a) Applicable Construction Code ASME VIII-DIV.1
Code Case N-416-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|---------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AHCC1-1A | ENGINEERS AND FABRICATORS | S-26125 | 3269 | 00113 | 2003 | REPLACEMENT | Y |

7. Description of Work REPLACE CLASS 3 COMPONENT COOLING WATER HEAT EXCHANGER 1A INCLUDING 12" SERVICE WATER SYSTEM PIPING AND 12" SERVICE WATER SYSTEM WELDS AND 16" COMPONENT COOLING WATER SYSTEM PIPING AND 16" COMPONENT COOLING WATER SYSTEM WELDS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 140 psi Test Temp. 73 deg. F

9. Remarks SERVICE WATER SIDE PRESSURE:104 PSI, TEST TEMP: 40 DEG. F; COMPONENT COOLING WATER SIDE TEST PRESSURE: 140 PSI; TEST TEMP: 73 DEG. F; UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: AHCC1-1A

Work Order Number: 03-000420

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Butts, Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger W. Wignier
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 31 Class 3 COMPONENT COOLING
5. (a) Applicable Construction Code ASME VIII-DIV.1
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/1/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-000421
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case N-416-1

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|---------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AHCC2-1B | ENGINEERS AND FABRICATORS | S-26126 | 3270 | 00114 | 2003 | REPLACEMENT | Y |

7. Description of Work REPLACE CLASS 3 COMPONENT COOLING WATER SYSTEM HEAT EXCHANGER 1B INCLUDING 12" SERVICE WATER PIPING AND 12" SERVICE WATER PIPING WELDS AND 16" COMPONENT COOLING WATER PIPING AND 16" COMPONENT COOLING WATER PIPING WELDS.
8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 135 psi Test Temp. 92 deg. F
9. Remarks SERVICE WATER SIDE TEST PRESSURE: 95 PSI; TEST TEMP: 45.4 DEG. F: COMPONENT COOLING WATER SIDE TEST PRESSURE: 135 PSI; TEST TEMP: 92 DEG. F: UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI: CODE CASE N-416-1.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/1/2003

Name of Component: AHCC2-1B

Work Order Number: 03-000421

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Butkus Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger W. Wynn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004032

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 34 Class 1 RESIDUAL HEAT REMOVAL

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|-------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| RHR-1A | VELAN VALVE CORPORATION | NF | NA | AC104-001 | 1972 | REPAIRED | N |

7. Description of Work REPAIR BODY TO BONNET LEAKAGE ON CLASS 1 RESIDUAL HEAT REMOVAL SYSTEM 8" VALVE RHR-1A BY REMOVING 1 STUD FOR CLEANING AND INSPECTING AND 15 STUDS FOR CLEANING AND INSPECTING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: RHR-1A

Work Order Number: 03-004032

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker, Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. Mignani
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004034

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| CVC-H96 | ITT GRINNELL COMPANY | NA | NA | CVC-H96 | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM HYDRAULIC SNUBBER CVC-H96 DUE TO MISSING ZIRC FITTING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: CVC-H96

Work Order Number: 03-004034

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bales Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McGinn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 33 Class 2 SAFETY INJECTION
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/5/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004034
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RSI-H2 | ITT GRINNELL VALVE CO. | NF | NA | NA | 1974 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 SAFETY INJECTION SYSTEM HYDRAULIC SNUBBER RSI-H2 DUE TO MISSING ZIRC FITTING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: RSI-H2

Work Order Number: 03-004034

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bute Insurance Inspection Program Burner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT
have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10-03, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 33 Class 2 SAFETY INJECTION
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/5/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004034
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RSI-H2A | ITT GRINNELL VALVE CO. | NA | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 SAFETY INJECTION SYSTEM 3" HYDRAULIC SNUBBER RSI-H2A DUE TO INADEQUATE MOVEMENT.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
- Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: RSI-H2A

Work Order Number: 03-004034

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bikes Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Logan McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/5/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004034
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RCVC-H191 | ITT GRINNEL COMPANY | NA | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 2" HYDRAULIC SNUBBER RCVC-H191 BY REPLACING PIN.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
- Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: RCVC-H191

Work Order Number: 03-004034

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Buhio Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Angie McGinnis

Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024

National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1Work Order 03-004034

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NAAuthorization No. NA4. Identification of System 35 Class 1 CHEMICAL AND VOLUME CONTROLExpiration Date NA5. (a) Applicable Construction Code B31.1-1967Code Case NA(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RCVC-H33A | ITT GRINNELL VALVE CO. | NA | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 1 CHEMICAL AND VOLUME CONTROL SYSTEM HYDRAULIC SNUBBER RCVC-H33A DUE TO PIPE CLAMP BINDING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: RCVC-H33A

Work Order Number: 03-004034

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dukas, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. Quinn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004034

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 35 Class 1 CHEMICAL AND VOLUME CONTROL

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RCVC-H33B | ITT GRINNELL VALVE CO. | NA | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPLACE CLASS 1 CHEMICAL AND VOLUME CONTROL SYSTEM 2" HYDRAULIC SNUBBER RCVC-H33B BY REPLACING COTTER PIN.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: RCVC-H33B

Work Order Number: 03-004034

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Lukas, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Raymond M. Myni
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 2003

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/5/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004034
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RCVC-H186 | ITT GRINNELL COMPANY | NA | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 2" HYDRAULIC SNUBBER RCVC-H186 DUE TO PIPE CLAMP BINDING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: RCVC-H186

Work Order Number: 03-004034

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillips C. Baker Insurance Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 8-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roy M. McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004051

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 34 Class 1 RESIDUAL HEAT REMOVAL

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|-------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| RHR-2B | VELAN VALVE CORPORATION | NF | NA | AC104-004 | 1972 | REPAIRED | N |

7. Description of Work REPAIR BODY TO BONNET LEAK ON CLASS 1 RESIDUAL HEAT REMOVAL SYSTEM 8" VALVE RHR-2B BY REMOVING 1 STUD FOR CLEANING AND INSPECTING AND 15 STUDS FOR CLEANING AND INSPECTING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: BHR-2B

Work Order Number: 03-004051

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker, Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger Matsum
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10-, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 1 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 5/9/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004053
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|--------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| CVC-15 | MASONEILAN INTERNATIONAL | H40686-1-1 | NA | CS111-002 | 1969 | REPLACEMENT | N |

7. Description of Work REPAIR BODY TO BONNET LEAK ON CLASS 1 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE CVC-15.
REPLACE 8 VALVE BONNET STUDS.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
- Other ☐ Pressure 2240 psi Test Temp. 543 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/9/2003

Name of Component: CVC-15

Work Order Number: 03-004053

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 36 Class 1 REACTOR COOLANT
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components
- Date 4/22/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004115
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RTD-W70S | TEXAS PIPE BENDING | NA | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR BY LIGHT FILING CLASS 1 REACTOR COOLANT SYSTEM 2" SOCKET WELD RTD-W70S DUE TO LINEAR INDICATION.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
- Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/22/2003

Name of Component: RTD-W70S

Work Order Number: 03-004115

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bikes Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 4/29/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004134

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RTD-H7 | ITT GRINNELL VALVE CO. | NF | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 1 REACTOR COOLANT SYSTM 2" SUPPORT RTD-H7 DUE TO IMPROPER SUPPORT SPRING SETTING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/29/2003

Name of Component: RTD-H7

Work Order Number: 03-004134

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. Mufson
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 4/29/2003Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1Work Order 03-004135

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NAAuthorization No. NA4. Identification of System 36 Class 1 REACTOR COOLANTExpiration Date NA5. (a) Applicable Construction Code B31.1-1967Code Case NA(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RTD-H12 | ITT GRINNELL VALVE CO. | NF | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 1 REACTOR COOLANT SYSTEM 2" SUPPORT RTD-H12 DUE TO IMPROPER SPRING SETTING.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/29/2003

Name of Component: RTD-H12

Work Order Number: 03-004135

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Duker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-03 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McGinnis
Inspector's Signature

Commission's NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 4/30/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004136

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| RC-H23 | ITT GRINNELL VALVE COMPANY | NF | NA | NA | 1967 | REPAIRED | N |

7. Description of Work REPAIR CLASS 1 REACTOR COOLANT SYSTEM 3" SUPPORT RC-H23 DUE TO LOOSE BOLT.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/30/2003

Name of Component: RC-H23

Work Order Number: 03-004136

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Roger M. McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 4/29/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004138

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 05A Class 2 FEEDWATER

Expiration Date NA

5. (a) Applicable Construction Code NA

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| SG-AH-2 | MCDOWELL WELLMAN | 25.12620.004-7 | NA | 1S-0066 | 1971 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 FEEDWATER SYSTEM STEAM GENERATOR 1B 900 KIP LARGE BORE HYDRAULIC SNUBBER ENCLOSURE ROD ON THE FLUID RESERVOIR.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 4/29/2003

Name of Component: SG-AH-2

Work Order Number: 03-004138

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Burke, Inservice Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. Muen
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL
5. (a) Applicable Construction Code SECTION III CLASS 2
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004162
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|-----------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| RHR-33-1 | CROSBY VALVE AND GAGE | N62651-00-0001 | NA | AC115-001 | 1978 | REPAIRED | N |

7. Description of Work REMOVE FOR SET POINT TESTING CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM 4" VALVE RHR-33-1.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 320 psi Test Temp. 117 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: RHR-33-1

Work Order Number: 03-004162

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Burke Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Ray McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001
2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511
3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Date 5/13/2003
Sheet 1 of 2
Unit No. 1
Work Order 03-004163
Type Code Sym. Stamp NA
Authorization No. NA
Expiration Date NA
Code Case NA

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| LD-5 | CROSBY ASHTON GAGE CO. | NF | NA | CS109-001 | 1970 | REPAIRED | N |

7. Description of Work REMOVE FOR SET POINT TESTING CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE LD-5.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 260 psi Test Temp. 306 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/13/2003

Name of Component: LD-5

Work Order Number: 03-004163

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bures Inspection Program Owner Date June 4, 20 03
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Loyn T. Myni
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/1/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004172

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 31 Class 3 COMPONENT COOLING

Expiration Date NA

5. (a) Applicable Construction Code ASME VIII-DIV.1

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|---------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| AHCC1-1A-S3 | ENGINEERS AND FABRICATION | S-26125 | 3269 | 00113 | 2003 | REPLACEMENT | Y |

7. Description of Work INSTALL BEVELED PLATE WASHER ON CLASS 3 COMPONENT COOLING WATER SYSTEM COMPONENT COOLING WATER HEAT EXCHANGER 1A AHCC1-1A-S3 BASE SUPPORT.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/1/2003

Name of Component: AHCC1-1A-S3

Work Order Number: 03-004172

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bakes, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. Quinn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-004211

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| FE-459 | VICKERY SIMMS INC. | NF | NA | 27040 | 1970 | REPAIRED | N |

7. Description of Work REPAIR CLASS 1 REACTOR COOLANT SYSTEM 3" FLANGE FE-459 DUE TO EVIDENCE OF LEAKAGE.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: FE-459

Work Order Number: 03-004211

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Baker Insurance Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Logan M. Quinn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 2003

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/5/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-005273

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 23 Class 2 CONTAINMENT SPRAY

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|------------------------|-------------------------|--------------------|----------|------------|------------------------------------|-------------------|
| ICS-H8 | ITT GRINNELL VALVE CO. | NA | NA | NA | 1971 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM HYDRAULIC SNUBBER ICS-H8.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/5/2003

Name of Component: ICS-H8

Work Order Number: 03-005273

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the
ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dubois Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

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

1. Owner Wisconsin Public Service Corporation
700 North Adams P.O.Box 19001 Green Bay, WI 54307-9001

Date 5/12/2003

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant
N490 HWY 42 Kewaunee, WI 54216-9511

Unit No. 1

Work Order 03-005353

3. Work Performed By Nuclear Management Company, LLC
700 First Street, Hudson, Wisconsin 54016

Type Code Sym. Stamp NA

Authorization No. NA

4. Identification of System 33 Class 2 SAFETY INJECTION

Expiration Date NA

5. (a) Applicable Construction Code B16.5-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other ID | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped |
|-------------------|----------------------|-------------------------|--------------------|-----------|------------|------------------------------------|-------------------|
| RHR-299A | ALOYCO INC. | NF | NA | SI008-001 | 1970 | REPAIRED | N |

7. Description of Work REPAIR CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM 6" VALVE RHR-299A DUE TO SEAT LEAKAGE.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 28 psi Test Temp. 75 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 5/12/2003

Name of Component: RHR-299A

Work Order Number: 03-005353

Certificate of Compliance

We Certify that the statements made in the report are correct and this REPAIRED conforms to the rules of the ASME Code Section XI. Repair or Replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Dukos, Inservice Inspection Program Owner
Owner or Owner's Designee, Title

Date June 4, 20 03

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 2-1-02 to 6-6-03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Roger M. M. M.
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date 6-10, 20 03

ATTACHMENT 6

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

Examination Summary for Scheduled and Augmented Inservice Inspection (ISI) Program

**NUCLEAR MANAGEMENT COMPANT, LLC
KEWAUNEE NUCLEAR POWER PLANT
3RD INTERVAL: 3RD PERIOD: 2ND OUTAGE
2003
EXAMINATION SUMMARY**

INTRODUCTION

An Inservice Inspection (ISI) Program (Scheduled and Augmented) was performed at the Kewaunee Nuclear Power Plant from May 8, 2002 through December 5, 2002 (Non Refueling Outage) and April 5, 2003 through May 11, 2003 (Closing of G1 following Refueling Outage) by Kewaunee Nuclear Power Plant and Lambert, MacGill, and Thomas, Inc.(LMT) examination personnel.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI 1989 Edition
- ASME Boiler and Pressure Vessel Code Section XI 1995 Edition 1996 Addenda Appendix VIII Performance Demonstration for Ultrasonic Examination Systems as required by Code of Federal Regulations 10CFR50.55a(g)(6)(ii)(c) and Nuclear Regulatory Commission 10CFR Part 50 Federal Register/Vol.64, Number 183/September 22, 1999/Rules and Regulations
- United States Nuclear Regulatory Commission IE Bulletin 79-13 Rev.2 Cracking in Feedwater System Piping
- United States Nuclear Regulatory Commission Generic Letter 88-05 Boric Acid Corrosion of Carbon Steel Reactor Pressure Boundary Components in PWR Plants
- United States Nuclear Regulatory Commission Regulatory Guide 1.14 Rev.1 Reactor Coolant Pump Flywheel Integrity
- Kewaunee Nuclear Power Plant OE Reports OE-15071 and OE 15222

The Inservice Inspection Program Plan and Augmented Inservice Inspection Program Plan located under Tab C was prepared by Nuclear Management Company, LLC - Kewaunee Nuclear Power Plant for the 3rd Interval: 3rd Period: 2nd Outage as identified in the Kewaunee Nuclear Power Plant Third 10-Year Inservice Inspection (ISI) Program 1994-2004.

Examinations during this Refueling Outage were performed to continue the 3rd Interval: 3rd Period Examination Requirements of ASME Boiler and Pressure Vessel Code Section XI 1989 Edition and Kewaunee Nuclear Power Plant Third 10-Year Inservice Inspection (ISI) Program 1994-2004.

The following items were examined:

- Reactor Vessel Control Rod Drive Mechanisms and 3/4" Head Vent Line
- Regenerative Heat Exchanger Tubesheet to Shell Weld
- Reactor Coolant Pump Main Flange Bolting, Flange Surfaces and No. 1 Seal Housing Bolting
- Reactor Coolant Pump External Casing Weld and Casing Internal Surfaces
- Reactor Coolant Pump Flywheel
- Class 1 and Class 2 Piping Welds
- Class 1, Class 2 and Class 3 Piping and Component Supports and Hangers
- Class 1 and Class 2 Reactor Vessel Conoseal Bolting, Steam Generator Primary Side Manway Bolting, Pressurizer Manway Bolting, Flange Bolting and Valve Bonnet Bolting
- Preservice Examination of Class 1 Reactor Coolant Pump Main Flange Bolt
- Preservice Examination of Class 1 Piping Welds
- Preservice Examination of Class 1 Valve Bonnet Bolting
- Preservice Examination of Component Cooling Water Heat Exchangers 1A and 1B Supports
- Accumulator Tanks 1A and 1B 2", 1" and 3/4" Coupling Base Metal
- Class 1 System Leakage Test
- Class 2 and Class 3 System Inservice and Functional System Pressure Tests

EXAMINATIONS

The examinations performed were in accordance with an approved Inservice Inspection Program Plan located under Tab C of the final report. Examination Procedures were approved prior to the start of examinations and certification documents relative to personnel, equipment and materials were reviewed and determined to be satisfactory.

Some of the arrangements and details of the Kewaunee Nuclear Power Plant Components and Piping Systems were designed and fabricated before ASME Boiler and Pressure Vessel Code Section XI Code requirements were established. Examinations performed were intended to examine 100% of the required surface or volume. In some cases, examinations were limited by geometric, metallurgical or design/access restrictions. In each case, the occurrence and cause of the limitation was documented. In all cases the maximum amount achievable was examined.

Witnessing and surveillance of the examinations were conducted by: United States Nuclear Regulatory Commission and Hartford Steam Boiler Inspection and Insurance Company.

RESULTS

Examinations resulted with the following Recordable Indications being noted on the basis of procedure recording criteria, which are generally more restrictive than specified ASME Boiler and Pressure Vessel Code Section XI Acceptance Standards.

Recordable Indications detected during the 2003 Refueling Outage are listed in Table 1 with a brief summary following. Specific data relative to all Recordable Indications and their dispositions by either corrective measures or acceptance by ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Acceptance Criteria, Repair/Replacement or Evaluation are located in Tab F of the Final Report.

TABLE 1

| <u>TYPE OR LOCATION OF RECORDABLE INDICATION (RI)</u> | <u>METHOD</u> | <u>NO. OF RI'S</u> |
|--|----------------------|---------------------------|
| • Reactor Vessel Conoseal Bolting | Visual (VT-3) | 2 Conoseals |
| • Steam Generator Primary Manway Bolting | Visual (VT-1) | 1 Stud |
| • 2" Piping Socket Weld | Surface (PT) | 1 Weld |
| • Component Supports and Hangers | Visual (VT-3) | 12 Supports |
| • Piping Flange Bolting | Visual (VT-3) | 3 Flanges |
| • Valve Bonnet Bolting | Visual (VT-3) | 6 Valves |
| • System Pressure Tests | Visual (VT-2) | 16 Items |

1. A 0.375" long Linear Indication (identified as a Forging Lap) on 2" Socket Weld RTD-W70S was recorded during performance of Liquid Penetrant Examinations. This Linear Indication was Unacceptable per ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Table IWB-3514-2. The Linear Indication was reduced in size under Work Order 03-004115 by light filing with a small file, reexamined and Accepted with a 0.100" Linear Acceptable ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Table IWB-3514-2 Indication.

2. Visual (VT-1, VT-2 and VT-3) Indications recorded on Reactor Vessel Conoseal Bolting, Steam Generator Primary Side Manway Bolting, Piping Flange Bolting, Valve Bonnet Bolting, Component and Piping Supports and Hangers and during System Pressure Tests were: (1) Evaluated and Accepted or (2) Repaired, Reexamined and Accepted by: Nuclear Management Company, LLC - Maintenance, Quality Control, Engineering and Technical Support or Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.

SUMMARY

An Inservice Inspection Program Plan was performed at the Kewaunee Nuclear Power Plant from May 8, 2002 through December 5, 2002 (Non Refueling Outage) and April 5, 2003 through May 11, 2003 (Closing of G1 following Refueling Outage) as scheduled in the Kewaunee Nuclear Power Plant Third 10-Year Inservice Inspection (ISI) Program 1994-2004 to continue examinations for the 3rd Interval; 3rd Period. A total of 41 Recordable Indications were detected. All Recordable Indications were Corrected or Accepted by ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Acceptance Criteria, Repair/Replacement or Evaluation.

Phillip E. Bukes May 12, 2003
Phillip E. Bukes Date
Engineering Programs
Inservice Inspection Program Owner

ATTACHMENT 7

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

Examination Summary for Inservice Inspection (ISI) Class MC Program

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR POWER PLANT
1ST INTERVAL: 2ND PERIOD: 2ND OUTAGE
2003
EXAMINATION SUMMARY**

INTRODUCTION

An Inservice Inspection (ISI) Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Nuclear Power Plant from April 5, 2003 through May 11, 2003 (Closing of G1 following Refueling Outage) by Kewaunee Nuclear Power Plant examination personnel.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI 1992 Edition up to and including 1992 Addenda

The Inservice Inspection Program Plan located under Tab C was prepared by Nuclear Management Company, LLC - Kewaunee Nuclear Power Plant for the 1st Interval: 2nd Period: 2nd Outage as identified in the Kewaunee Nuclear Power Plant First 10-Year Inservice Inspection (ISI) Program 1996-2006.

The following items were examined for the Class MC Reactor Building Containment Vessel:

- Accessible Surface Areas
- Circumferential Weld
- Containment Penetration Bellows
- Airlocks
- Seals and Gaskets

EXAMINATIONS

The examinations performed were in accordance with an approved Inservice Inspection Program Plan located under Tab C of the final report. Examination Procedures were approved prior to the start of examinations and certification documents relative to personnel, equipment and materials were reviewed and determined to be satisfactory.

Some of the arrangements and details of the Kewaunee Nuclear Power Plant Components and Piping Systems were designed and fabricated before ASME Boiler and Pressure Vessel Code Section XI Code requirements were established. Examinations performed were intended to examine 100% of the required surface or volume. In some cases, examinations were limited by geometric, metallurgical or design/access restrictions. In each case, the occurrence and cause of the limitation was documented. In all cases the maximum amount achievable was examined.

Witnessing and surveillance of the examinations were conducted by: Hartford Steam Boiler Inspection and Insurance Company.

RESULTS

Examinations resulted in No Recordable Indications being noted on the basis of procedure recording criteria, which are generally more restrictive than specified ASME Boiler and Pressure Vessel Code Section XI Acceptance Standards.

SUMMARY

An Inservice Inspection Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Nuclear Power Plant from April 5, 2003 through May 11, 2003 (closing of G1 following Refueling Outage). Examinations were performed as scheduled in the Kewaunee Nuclear Power Plant First 10-Year Inservice Inspection (ISI) Program 1996-2006. Examinations resulted in No Recordable Indications being noted on the basis of procedure recording criteria, which are generally more restrictive than specified ASME Boiler and Pressure Vessel Code Section XI Acceptance Standards.

| | |
|------------------------------------|----------------------------|
| <u><i>Phillip E. Bukes</i></u> | <u><i>May 12, 2003</i></u> |
| Phillip E. Bukes | Date |
| Inservice Inspection Program Owner | |
| Engineering Programs | |

ATTACHMENT 8

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

Examination Summary for Steam Generator Eddy Current



Kewaunee R26 Eddy Current Summary Report April, 2003

1.0 Introduction

Kewaunee has completed its 26th refueling cycle (EOC) prior to this inspection. Westinghouse Electric Company was contracted to perform the first eddy current in-service inspection (ISI) of the newly replaced steam generators. The old Westinghouse 51-Model steam generators (SG) were replaced after the 25th fuel cycle with the second generation Westinghouse 54F model steam generators. These new model steam generators incorporate 690 Thermally Treated (TT) Inconel tubing and stainless steel quatrefoil tube support structures (TSP). Each steam generator contains 3592 tubes with an OD of 0.875" OD and a tube wall thickness of 0.050" and 3 chrome plated inconel anti-vibration bars (AVB). This report will concentrate on the eddy current inspection and results from the analysis.

2.0 Inspection

The inspection program for each of the two steam generated consisted of the following:

- 100% Full-length 720/700 -diameter bobbin coil of all opened tubes.
- 20% Hot Leg Top of Tubesheet (TTS) 720-diameter 3-Coil +Point RPC (+/- 2 inches)
- 20% U-Bend 680-diameter +Point RPC of row 1 (top TSP to top TSP)
- RPC of all I-codes, dings/dents 5 volts or greater (special interest) and Possible Loose Parts (PLP's)

The eddy current testing began at 02:30 hours on April 17,2002 and the final closeout was completed at 10:18 hours on April 19, 2002.

Data Acquisition was performed simultaneously in each of the two steam generators using the Westinghouse Genesis manipulators, dual probe pushers, and the Zetec MIZ 30 eddy current testers. The data collection was performed mostly in the automatic mode utilizing the Westinghouse EddyNet software. All testing was performed in accordance with acquisition procedure NMC-400-002 and the parameters established within the Acquisition Examination Technique Specification Sheet (ETTS). The ETSS's established for this inspection were bobbin (NMC-ETSS-101), RPC +Point TTS (NMC-ETSS-102), and RPC +Point U-bends (NMC-ETSS-103).

Two independent analysis teams (Primary and Secondary) analyzed all the acquired data. The Primary analysis was performed in the manual mode and Secondary analysis in the automatic screening mode. A third analysis team (Resolution) resolved the discrepancies between these two teams. The resolution team consisted of representatives from both the primary (Westinghouse) and secondary (Zetec) analysis teams. The resolution team was located at the Kewaunee site and utilized the Zetec EddyNet software for resolution analysis for comparing the two independent analyses teams final results. The Primary analysts were located at the Westinghouse REDAC while the Secondary analysts located at the Zetec ZRAF. Both parties utilized the Zetec EddyNet software. All analysis was performed in accordance with the bobbin procedure (NMC-400-003), Rotating Coil procedure (NMC-400-004), Independent QDA procedure (NMC-400-006), and SSPD procedure (NMC-400-007).

Primary data management was performed utilizing the Zetec EIMS data management system and secondary data management system was performed by NMC HXR. All data management personnel were located at the Kewaunee site. The data management procedure utilized was NMC-400-005.



3.0 Summary of Findings

There was no tube wall degradation detected during this inspection. No tubes needed to be repaired. Only a small number of benign signals caused by the manufacturing process and possible loose parts (PLP's) were observed and are listed below.

Manufacturing Imperfections

All reported bobbin freespan indications were reviewed and compared with the baseline history. Those bobbin free span indications that were detected in baseline and showed no change were reported as FSH. Those bobbin free span indications that either could not be detected in baseline or showed a change from baseline were identified with the appropriate FSI code to be further inspected with the +Point RPC. None of these freespan indications were indicative by RPC of a crack like morphology and thus requiring no tube repair action during this inspection. The total findings are listed below.

Possible Loose Parts

Since the baseline examination a number of signals of possible loose parts (PLP's) were reported by RPC probe during this inspection. All the signals reported were located in the vicinity of the top of the tubesheet. No indication of wear was associated with these PLP's. The total findings are listed below.

The following table summarizes the number of reportable signals from this inspection.

| | SG A | SG B | TOTAL |
|-------|------|------|-------|
| FSI | 1 | 1 | 2 |
| FSH | 0 | 3 | 3 |
| DNG | 10 | 20 | 30 |
| DNT | 8 | 0 | 8 |
| BLG | 0 | 2 | 2 |
| GEO | 2 | 2 | 4 |
| PLP | 8 | 21 | 29 |
| Total | 29 | 49 | 78 |

Definitions of Codes

FSI- Free Span Indication-Used by the resolution analyst for a free span indication that has been reviewed in the baseline data and determined that a change has occurred. RPC is required for deposition of the indication.

FSH- Free Span Indication- Used by the resolution analyst for a free span indication that has been reviewed in the baseline data and determined that a change has not occurred.

DNG- Ding- Condition where the tubing inside diameter has been reduced less than nominal. To be utilized for manufacturing dings reported by the bobbin probe two volts or greater.

DNT- Dent- Condition where the tubing inside diameter has been reduced less than nominal. To be utilized for inservice dents reported by the bobbin probe two volts or greater.

BLG-Bulge- Condition where the tubing inside diameter is greater than nominal. To be used for bulges reported by the bobbin probe two volts or greater.



Kewaunee First ISI Steam Generator Inspection



GEO- Geometry Change- Condition where a signal appears to be caused by a geometry change by the RPC probe. This code used for tracking purposes in future inspections.

PLP-Possible Loose Part- Indicates the possibility of foreign material on the secondary side of the steam generator as reported by the RPC probe.

U-Bend +Point Noise Comparison

A comparison study of noise characteristics in all 40 of the row 1 U-bends (20 in each SG) from 2003 Kewaunee tested with mid range +Point RPC and compared against the data from the virgin U-bend samples used in the EPRI Appendix H qualification for the mid range +Point coil (ETSS # 96511.1 and 96511.2). The results of the comparison showed that the measured noise levels in the Kewaunee low row U-bend data are less than the EPRI 96511.1 and 96511.2 avg. noise levels for all tubes tested in every case.

The following table summarizes the Kewaunee average noise levels and compares them to the EPRI ETSS measurements:

| KEWAUNEE 2003 LOW ROW U-BEND NOISE STUDY SUMMARY | | | | |
|--|-----------------|-----------------|-----------------|-----------------|
| Plus Point RPC noise Measurements performed with window open to one scan line wide. 100 % axial notch set to 35 degrees and 20 volts. Measurements of Vp-p (horizontal) and Vv-m (Vertical) max noise value in U-bend at Apex. | | | | |
| <u>Combined Totals- 40 Row 1 Tubes S/G A and B</u> | | | | |
| KEWAUNEE 2003 ROW 1 U-BENDS <u>AVG.</u> | 400 kHz Vp-p | 400 kHz Vv-m | 300 kHz Vp-p | 300 kHz Vv-m |
| | 0.47 | 0.13 | 0.40 | 0.14 |
| EPRI ETSS 96511 AVG. | 1.22 | 0.41 | 1.09 | 0.40 |

4.0 Other References

1. Authorized Probe List Rev. 1 April 10, 2003
2. Steam Generator Degradation Assessment for Kewaunee R26 Refueling Outage February 2003 SG-SGDA-03-01 Rev. 0.
3. Appendix H Qualified Techniques at Kewaunee Spring 2003 S/G Inspection April 14,2003 MRS-TRC-1352.

William F. Stock

William F. Stock
Westinghouse Lead Analyst
Eddy Current Level III

ATTACHMENT 9

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

Examination Summary for Nuclear Regulatory Commission Order EA-03-009

**REVISION 1
KEWAUNEE NUCLEAR POWER PLANT
2ND OUTAGE; 3RD PERIOD; 3RD INTERVAL
NRC ORDER EA-03-009**

SUMMARY

In response to NRC Order EA-03-009, a Reactor Vessel Closure Head Bare Metal Visual Examination of the Forty (40) Reactor Pressure Vessel Head Control Rod Drive Mechanism Penetration Nozzles and one 3/4" Head Vent Penetration Nozzle was performed on April 13, 2003 with No Leakage noted. The Shroud and Insulation was completely removed to permit access. Examiners certified in VT-1, VT-2 and VT-3 Examination Methods to at least Level II, with additional training to the Electric Power Research Institute (EPRI) Visual Examination for Leakage of PWR Reactor Head Penetrations on Top of the RPV Head 1006296 Revision 1, performed the examinations.

High Intensity flashlights qualified to ASME Boiler and Pressure Vessel Code Section XI 1992 Edition 1992 Addenda were utilized in performance of the VT-1 and VT-3 Examinations.

The NIS-1 Owner's Report For Inservice Inspections, NRC Order EA-03-009, Drawings, Examination Results, Personnel and Equipment Certifications, Examination Procedures, Photographs and Lessons learned are included in this Report.

Phillip E. Bukes *April 30, 2003*
Phillip E. Bukes **Date**
Inservice Inspection Program Owner

ATTACHMENT 10

**NUCLEAR MANAGEMENT COMPANY, LLC
KEWAUNEE NUCLEAR PLANT
DOCKET 50-305**

August 6, 2003

Letter from Thomas Coutu (NMC)

To

Document Control Desk (NRC)

**Summary of Examinations Which Were Limited by Geometric, Metallurgical, or Design/Access
Restrictions and Associated Data Sheets (8 Total)**

| 2003 Summary of Limitations for 2nd Outage, 3rd Period, 3rd Interval Inservice Inspection | | | |
|---|--|------------------------------|---|
| Year | Component Identification | Method of Examination | % Recorded As Not Examined and Limitation |
| 2003 | Tubesheet to shell circumferential weld ARG-W11 on regenerative heat exchanger | UT | 41.4%: Pipe clamp connected to rigid support bracket assembly |
| 2003 | Branch connection weld RC-W50BC on loop B reactor coolant piping | UT | 53.0%: Branch nozzle configuration |
| 2003 | Circumferential weld SI-W75 on 12" diameter safety injection | UT | 50.0%: Valve to elbow configuration |
| 2003 | Circumferential weld SI-W119 on 12" diameter safety injection | UT | 50.0%: Elbow to valve configuration |
| 2003 | Circumferential weld SI-W47 on 6" diameter safety injection | UT | 50.0%: Pipe to valve configuration |
| 2003 | Circumferential weld SI-W29 on 6" diameter reactor coolant | UT | 50.0%: Pipe to nozzle configuration |
| 2003 | Circumferential weld RC-W19 on 27.5" ID reactor coolant | UT | 54.0%: Reactor coolant pump to pipe configuration |

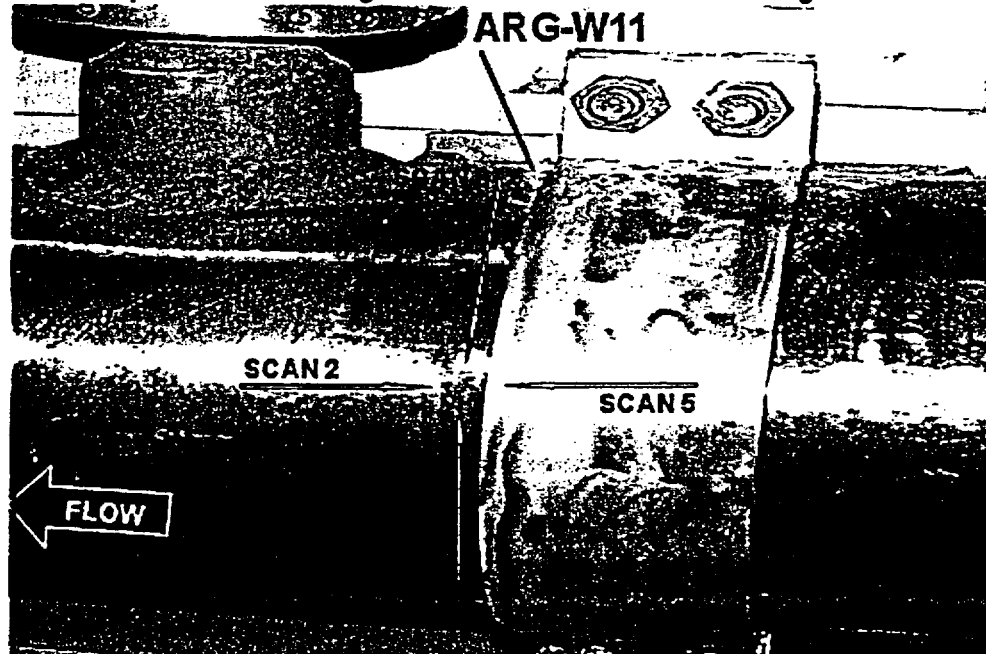
**WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT**

REV.: ORIG.

**ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD**
SYSTEM OR COMPONENT: REGENERATIVE HEAT EXCHANGER ARGDRAWING NO.: M-1208COMPONENT IDENTIFICATION: ARG-W11 PROCEDURE: NEP No. 15.17 REVISION: ORIGULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: EXAMINER: *J. Timm* III DATE: 4-25-03
LEVELEXAMINER: NA DATE: NA
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAMINATION COVERAGE.

No scan 5, scan 7 & 8 limited to weld and downstream base metal only, due to
pipe clamp connected to rigid support bracket assembly. Scan 2, 7 & 8, also limited
to 90% of length due to welded lugs around circumference of vessel.
Reduced procedural coverage: 62.8% / Reduced code coverage: 41.4%



KEWAUNEE NUCLEAR
POWER PLANT REVIEW: *Phillip E. Bueker* DATE: April 25, 2003

AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: *Roger M. Gurni* DATE: 4-25-03

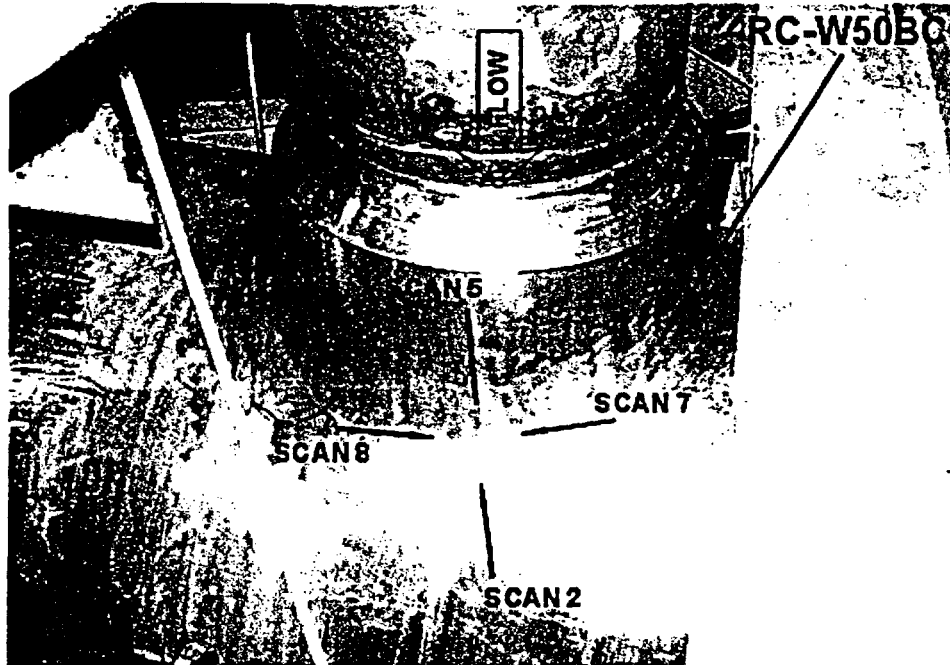
WISCONSIN PUBLIC SERVICE CORPORATION

REV.: ORIG.

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORDSYSTEM OR COMPONENT: REACTOR COOLANT PIPING LOOP BDRAWING NO.: ISIM-1704COMPONENT IDENTIFICATION: RC-W50BC PROCEDURE: NEP No. 15.39 REVISION: OrigULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: EXAMINER: *[Signature]* II DATE: 4/17/03
LEVELEXAMINER: A.W. JENSEN *[Signature]* II DATE: 4-17-03
LEVELSKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAMINATION COVERAGE.No scan 2, scan 7 & 8 limited to weld and upstream base metal only, due to
branch connection configuration.

Reduced procedural coverage: 53%

KEWAUNEE NUCLEAR
POWER PLANT REVIEW: *Phillip C. Bakes* DATE: April 22, 2003AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: *Logan Majumdar* DATE: 4-22-03

**WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT**

REV.: ORIG.

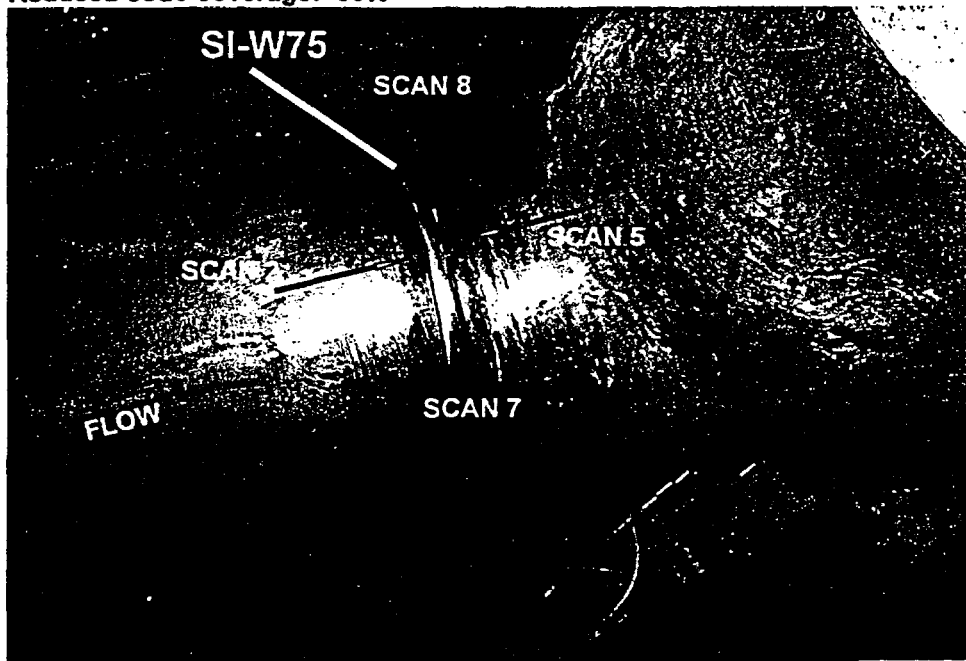
**ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD**

SYSTEM OR COMPONENT: FROM ENTMT PEN. 10 TO REACTOR
SI-FROM ACMTR 1B TO LOOP B COLD LEG

DRAWING NO.: ISIM-938-1COMPONENT IDENTIFICATION: SI-W75 PROCEDURE: NEP-15.41 REVISION: AULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: EXAMINER: *[Signature]* II DATE: 4/18/03
LEVELEXAMINER: A.W. JENSEN *[Signature]* II DATE: 4-18-03
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAMINATION COVERAGE.

No scan 5, scan 7 & 8 limited to weld and downstream base metal only, due to
valve to elbow configuration.
Reduced code coverage: 50%



KEWAUNEE NUCLEAR
POWER PLANT REVIEW: *Phillip C. Butkus* DATE: April 22, 2003
AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: *Roger McGinnis* DATE: 4-22-03

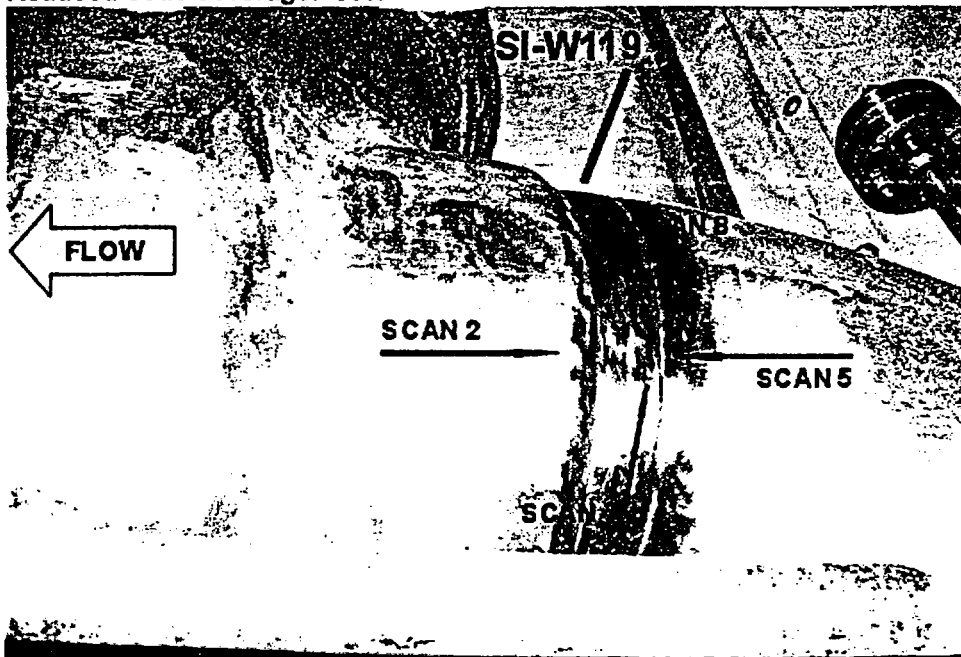
WISCONSIN PUBLIC SERVICE CORPORATION

REV.: ORIG.

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORDSYSTEM OR COMPONENT: SI - FROM ACCUMULATOR 1A TO LOOP 'A' COLD LEGDRAWING NO.: 151M-935COMPONENT IDENTIFICATION: SI-W119 PROCEDURE: NEP-15.41 REVISION: AULTRASONIC: Y LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: EXAMINER: T.L. Devers JD TH DATE: 4-21-03
LEVELEXAMINER: NA DATE: NA
LEVELSKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAMINATION COVERAGE.No scan 2, scan 7 & 8 limited to weld and upstream base metal only, due to
elbow to valve configuration.

Reduced code coverage: 50%

KEWAUNEE NUCLEAR
POWER PLANT REVIEW: Phillip E. ButkesDATE: April 22, 2003AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: Loren M. WintersDATE: 4-22-03

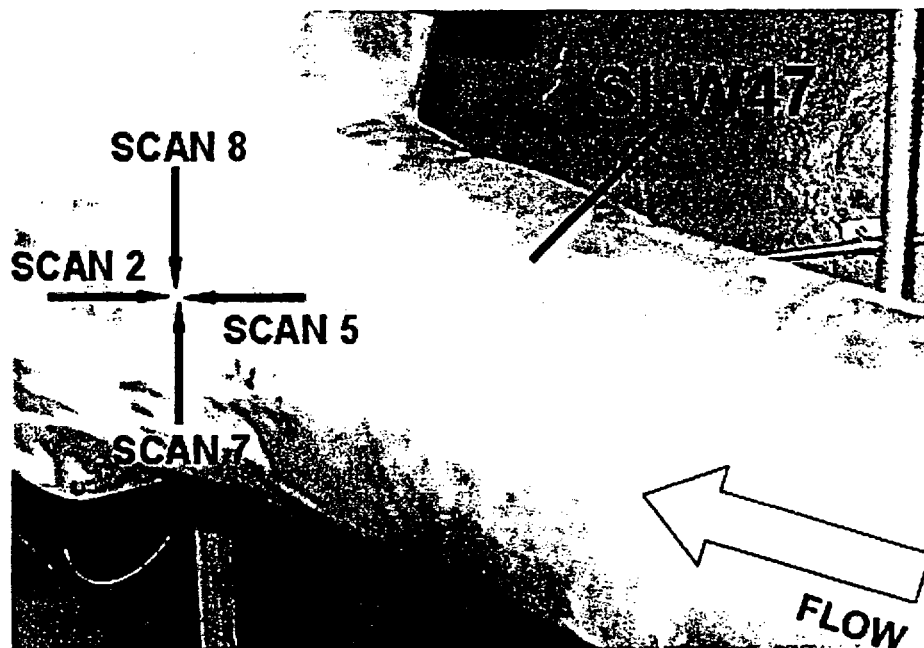
WISCONSIN PUBLIC SERVICE CORPORATION

REV.: ORIG.

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORDSYSTEM OR COMPONENT: SAFETY INJECTION FROM CNTMT PEN. 48 TO REACTORDRAWING NO.: 151M-9395H1COMPONENT IDENTIFICATION: SI-W47 PROCEDURE: NEP-15.41 REVISION: AULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: EXAMINER: *[Signature]* II DATE: 4/21/03
LEVELEXAMINER: NA NA DATE: NA
LEVELSKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAMINATION COVERAGE.No scan 2, scan 7 & 8 limited to weld and upstream base metal only, due to
pipe to valve configuration

REDUCED CODE COVERAGE: 50%

KEWAUNEE NUCLEAR
POWER PLANT REVIEW: *Phillips E. Bakes* DATE: April 22, 2003AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: *Roger McGinnis* DATE: 4-22-03

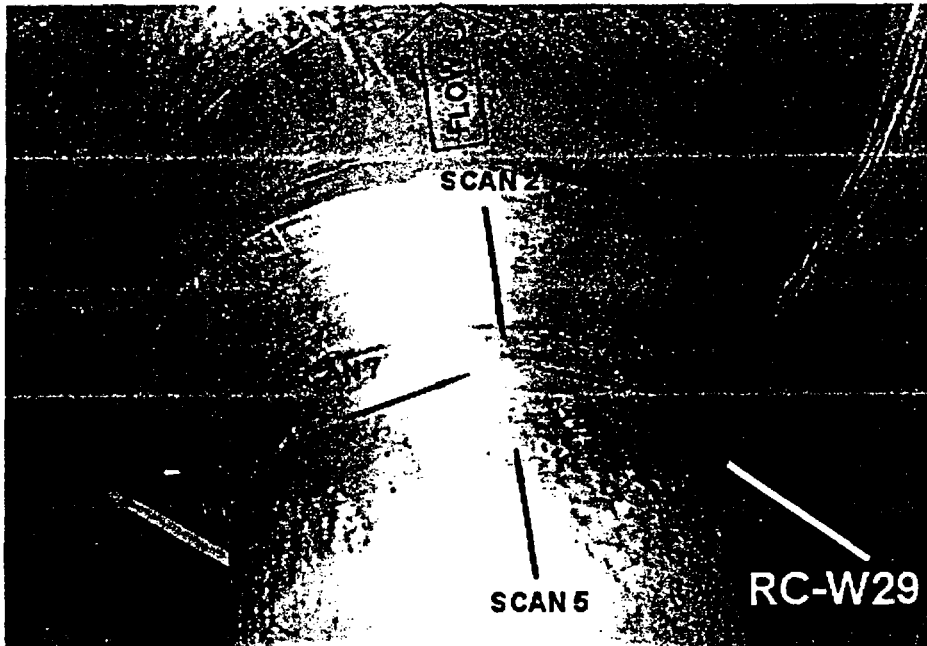
WISCONSIN PUBLIC SERVICE CORPORATION

REV.: ORIG.

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORDSYSTEM OR COMPONENT: SI - FROM CNTMT PEN. 2BN TO ACMTRS AND COLD LEFT LOOPSDRAWING NO.: 151M-982COMPONENT IDENTIFICATION: RC - W29 PROCEDURE: NEP-15.41 REVISION: AULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: EXAMINER: *[Signature]* II DATE: 4/21/03
LEVELEXAMINER: NA NA DATE: NA
LEVELSKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAMINATION COVERAGE.No scan 2, scan 7 & 8 limited to weld and upstream base metal only, due to
pipe to nozzle configuration.

REDUCED CODE COVERAGE: 50%

KEWAUNEE NUCLEAR
POWER PLANT REVIEW: *Phillip C. Buker* DATE: April 22, 2003AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: *Roger W. [Signature]* DATE: 4-22-03

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT

REV.: ORIG.

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

SYSTEM OR COMPONENT: REACTOR COOLANT PIPING LOOP A

DRAWING NO.: ISIM-1703

COMPONENT IDENTIFICATION: RC-W19 PROCEDURE: NEP No. 15.13 REVISION: A

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

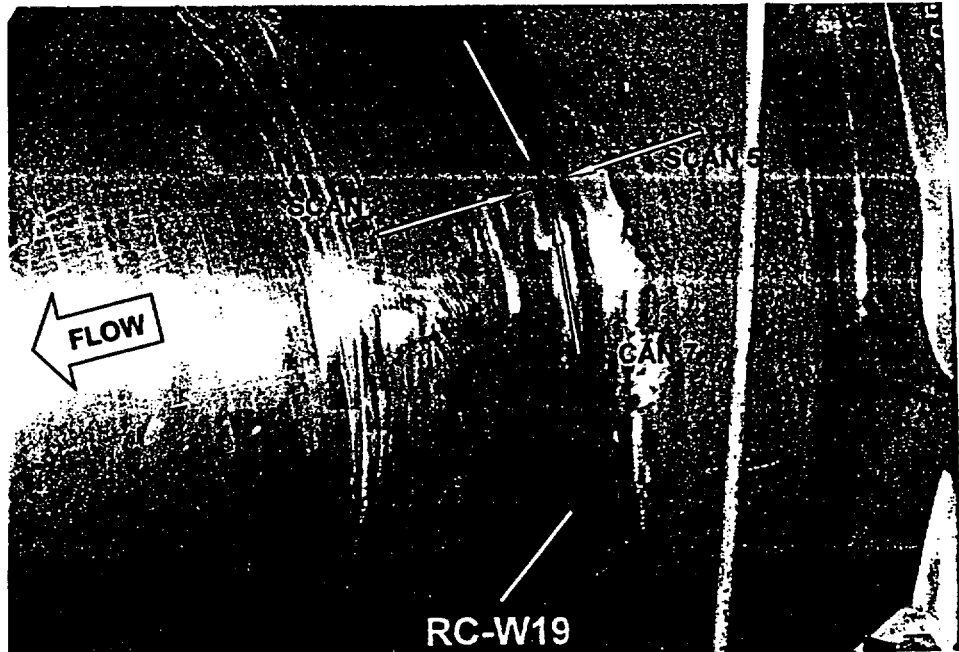
EXAMINER: A.W. JENSEN II DATE: 4-21-03
LEVEL

EXAMINER: II DATE: 4/21/03
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAMINATION COVERAGE.

No scan 5, scan 7 & 8 limited to weld and downstream base metal only, due to
pump to pipe configuration.

Reduced procedural coverage: 54%



KEWAUNEE NUCLEAR
POWER PLANT REVIEW: Phillips E. Bakes DATE: April 22, 2003

AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: Roger M. Gurni DATE: 4-22-03