



January 4, 2010

ATTN: Document Control Desk  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Serial No. 09-723  
LIC/NW/R0  
Docket No. 50-305  
License No. DPR-43

**DOMINION ENERGY KEWAUNEE, INC.**  
**KEWAUNEE POWER STATION**  
**2009 INSERVICE INSPECTION SUMMARY REPORT**

As required by American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI, 10 CFR 50.55a, and Wisconsin Administrative Code, Department of Commerce, Comm 41.55(3), various inservice inspection (ISI) examinations were performed during the 2009 refueling outage at the Kewaunee Power Station (KPS). The 2009 refueling outage took place from September 26, 2009 through October 22, 2009. This letter transmits the Inservice Inspection Summary Report as required by paragraph IWA-6230 of ASME Section XI.

Two separate ASME Section XI inservice inspection programs are implemented at KPS. One program is for pressure retaining piping/vessels and component supports, and the other program is for the metal containment. The 2009 refueling outage inservice inspections met the requirements of these two distinct inspection programs as identified below:

- a. Class 1, Class 2, and Class 3 component inspections were performed for the second inspection outage of the second period of the fourth interval. These inspections met the requirements of ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda with implementation in accordance with the KPS Fourth Ten-Year Inservice Inspection (ISI) Program 2004-2014.
- b. Class MC component inspections were performed for the second inspection outage of the first period of the second interval. These inspections met the requirements of ASME Boiler and Pressure Vessel Code Section XI, 2001 Edition, 2003 Addenda with implementation in accordance with the KPS Second Ten-Year Inservice Inspection (ISI) Class MC Program 2006-2016.

The following examinations and tests were performed for Class 1, Class 2, and Class 3 components and their supports:

- Reactor vessel upper and lower internals
- Pressurizer circumferential and longitudinal welds
- Pressurizer surge nozzle to safe end

A047  
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- Pressurizer integrally welded attachment
- Steam generator primary nozzle to safe end welds
- Class 1, Class 2, and Class 3 piping and component supports and hangers
- Class 1 and Class 2 steam generator primary manway bolting, pressurizer manway bolting, flange bolting, and valve bonnet bolting
- Class 1 and Class 2 preservice of safety injection and residual heat removal piping, supports and gas collection chamber
- Letdown heat exchanger circumferential weld and integrally welded attachments
- Residual heat exchanger circumferential weld
- Seal water injection filter circumferential weld
- Class 1 system leakage test
- Class 2 and Class 3 system leakage tests

The following items were examined for the Class MC reactor building containment vessel:

- Accessible surface areas
- Moisture barriers
- Bolted connections


Hydraulic snubbers were examined as required by KPS Technical Specification 4.14, "Testing and Surveillance of Shock Suppressors (Snubbers)."

Documentation summarizing the inservice inspection activities performed during the KPS 2009 refueling outage and associated results is provided in attachments 1-9 of this letter. The final reports for each of these examinations are maintained in the Quality Assurance/Quality Control Records Vault at KPS. Attachment 9 includes Form OAR-1 and Form NIS-2A. These forms are submitted in addition to Forms NIS-1, "Owner's Report for Inservice Inspection Class 1, Class 2 and Class 3 Components for Fourth Ten-Year Interval," and Forms NIS-2, "Owner's Repair/Replacement Activities." It is expected that as KPS approaches the end of the Fourth Ten-Year Interval and prepares for the Fifth Ten-Year Interval, the site will cease to submit Forms NIS-1 and NIS-2.

The next refueling outage at KPS is tentatively scheduled for the spring of 2011.

If you have questions or require additional information, please feel free to contact Mr. Craig Sly at 804-273-2784.

Very truly yours,

  
J. Alan Price  
Vice President – Nuclear Engineering

Attachments:

1. Summary of Recordable Indications (RIs) and Disposition
2. Summary of Class 1 and Class 2 Repair/Replacement Activities for Components 1-Inch in Diameter or Smaller
3. "Form NIS-1 Owner's Report for Inservice Inspections," Class 1, Class 2, and Class 3 Components, Fourth Ten-Year Interval
4. "Form NIS-1 Owner's Report for Inservice Inspections," Class MC Components, Second Ten-Year Interval
5. "Form NIS-2 Owner's Report for Repair/Replacement Activities" (33 Total)
6. Examination Summary, Class 1, Class 2, and Class 3 Inservice Inspection Program, Fourth Ten-Year Interval
7. Examination Summary, Class MC Program Inservice Inspection, Second Ten-Year Interval
8. Summary of Examinations that were Limited by Geometric, Metallurgical, or Design/Access Restrictions and Associated Data Sheets (10 Total)
9. "Form OAR-1 Owner's Activity Report," Table 1 and "Form NIS-2A Repair/Replacement Certification Record," Table 2

Commitments made by this letter: NONE

cc: Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region III  
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U.S. Nuclear Regulatory Commission  
One White Flint North, Mail Stop O8-H4A  
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NRC Senior Resident Inspector  
Kewaunee Power Station

**ATTACHMENT 1**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**SUMMARY OF RECORDABLE INDICATIONS (RIs) AND DISPOSITION**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**

### SUMMARY OF RECORDABLE INDICATIONS (RIs) AND DISPOSITION

Type Or Location Of Recordable Indication (RI)	Examination Method	No. RIs (Description)
1. Reactor Building Containment Vessel	General Visual	1 (Plate Moisture Barrier)
2. Reactor Vessel Upper Internals	VT-3	1 (Conduit)
3. Seal Water Injection Filter	Ultrasonic	1 (Weld-Ultrasonic Indications)
4. Gas Collection Chamber	Liquid Penetrant	1 (Weld)
5. Piping Supports and Hangers	Visual (VT-3)	1 (Support)
6. Valve Bonnet Bolting, Reactor Coolant Pump Bolting, Flange Bolting and Pressurizer Manway Bolting	Visual (VT-3)	10 (Items)
7. System Leakage Pressure Tests	Visual (VT-2)	41 (Items)

Dispositioning of Class 1, Class 2, and Class 3 indications has been completed in accordance with the rules of American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda for Fourth Ten-Year Interval examinations. Dispositioning of Class MC components has been completed in accordance with the rules of ASME Boiler and Pressure Vessel Code Section XI, 2001 Edition, 2003 Addenda for Second Ten-Year Interval examinations. 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 components have been summarized with disposition as noted below:

1. General visual indications consisting of two separations in the moisture barrier of Plate 67. The moisture barrier was repaired under Work Order KW100588970, reexamined and accepted.
2. Recordable indication was recorded on the reactor vessel upper internals upper support plate thermocouple conduit at location C-3. The separated conduit cable was previously recorded in 1995, 2004, and 2006. The separated conduit at location C-3 showed no noticeable change in separation and was previously acceptable under the Kewaunee Power Station (KPS) Corrective Action Program.

3. Ultrasonic 0° and 60° indications were recorded on the seal water injection filter 1A head circumferential weld AFSI-W2. These indications were acceptable per ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda, Table IWB-3514-2 and IWC-3510-2. The 0° indications were typical of the flaws recorded on seal water injection filters 1A and 1B during refueling outages 1982, 1986, 1988, 1992, 1998, and 2001.
4. One linear indication (2.5" in length) was recorded on the gas collection chamber 6" circumferential weld SI-W603. The linear indication was unacceptable per ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda, Table IWB-3514-2. The linear indication was removed by buffing, reexamined, and acceptable to ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda Standards.
5. Visual (VT-3) indication recorded on 16" feedwater piping support FDW-H116 was evaluated and accepted by KPS Engineering and Inservice Inspection (ISI) personnel and reviewed by the Authorized Nuclear Inservice Inspector.
6. Visual (VT-3) indications recorded on valve bonnet bolting (five valves), reactor coolant pump bolting (main flange and No. 1 seal housing bolting), flange bolting (two flanges) and pressurizer manway bolting (one manway) were (1) evaluated and accepted, or (2) repaired, reexamined, and accepted by KPS Engineering or ISI personnel. All dispositioned indications were and reviewed by the Authorized Nuclear Inservice Inspector.
7. Visual (VT-2) indications recorded during system leakage pressure tests (41 items). These indications were (1) evaluated and accepted, or (2) repaired, reexamined, and accepted by KPS Engineering or ISI personnel. All dispositioned indications were reviewed by the Authorized Nuclear Inservice Inspector.

**ATTACHMENT 2**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**SUMMARY OF CLASS 1 AND CLASS 2 REPAIR/REPLACEMENT ACTIVITIES  
FOR COMPONENTS 1-INCH IN DIAMETER OR SMALLER**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**

# **SUMMARY OF CLASS 1 AND CLASS 2 REPAIR/REPLACEMENT ACTIVITIES FOR COMPONENTS 1 INCH IN DIAMETER OR SMALLER**

The following summarizes the repairs and replacements performed following the 2008 refueling outage and during the 2009 refueling outage by grinding, buffing, filing, cutting, or welding on the Class 1 and Class 2 pressure boundaries. These repairs and replacements are in addition to those itemized on the enclosed forms, "NIS-2 Owner's Report for Repair/Replacement Activity" and "NIS-2A Repair/Replacement Certification Record."

Component	Class	Reference Drawing	Repair/Replacement Method
Three 3/4" welded plugs	2	XK-100-28	Welding in three 3/4" pipe plugs
3/4" valve SI-39A	2	XK-100-28	Welding in replacement 3/4" valve
1" welds by SI-100A	2	XK-100-28	Welding in 1" welds by SI-100A
1" valve SI-100A	2	XK-100-28	Welding in new 1" valve SI-100A
1" valve SI-100B	2	XK-100-28	Welding in new 1" valve SI-100B
1/2" valve SI-301A-1	2	XK-100-29	Welding in new 1/2" valve
3/4" valve SI-301B-1	2	XK-100-29	Welding in new 3/4" valve
3/4" valve SI-4A-1	2	XK-100-29	Welding in new 3/4" valve
3/4" valve SI-4B-1	2	XK-100-29	Welding in new 3/4" valve
3/4" valve MS-23001-1	2	M-203	Welding in replacement 3/4" valve
3/4" valve MS-23001-2	2	M-203	Welding in replacement 3/4" valve
3/4" valve MS-23002-1	2	M-203	Welding in replacement 3/4" valve
3/4" valve MS-23002-2	2	M-203	Welding in replacement 3/4" valve
3/4" valve MS-23005-1	2	M-203	Welding in replacement 3/4" valve
3/4" valve MS-23005-2	2	M-203	Welding in replacement 3/4" valve
3/4" valve MS-23007-1	2	M-203	Welding in replacement 3/4" valve
3/4" valve MS-23007-2	2	M-203	Welding in replacement 3/4" valve



**ATTACHMENT 3**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**“FORM NIS-1, OWNER’S REPORT FOR INSERVICE INSPECTIONS”  
CLASS 1, CLASS 2, AND CLASS 3 COMPONENTS  
FOURTH TEN-YEAR INTERVAL**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**

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

1. OWNER – DOMINION ENERGY KEWAUNEE, INC.  
N490 HIGHWAY 42, KEWAUNEE, WISCONSIN 54216-9511
2. PLANT – KEWAUNEE POWER STATION, N490 HWY 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
Replacement Reactor Vessel Closure Head	Mitsubishi Heavy Industries	B-VH-N06	U11480	5845
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	---	---

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Reactor Coolant Pump RCP-1B	Westinghouse	1B-2-618J871-GO2	---	---
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	---	---
Volume Control Tank VCT	Joseph Oat and Sons	1787-1C	U11425	376

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Regenerative Heat Exchanger ARG	Joseph Oat and Sons	1831-13	U11409	413
			U11410	414
			U11411	415
Letdown Heat Exchanger AHL D	Atlas	1206	U11405	1031
Seal Water Heat Exchanger AHSW	Atlas	734	U11404	596
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	---	---

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Charging Pump APCH-1B	Ajax Iron Works	6576	---	---
Charging Pump APCH-1C	Ajax Iron Works	6577	---	---
Charging Pump APCH-1A Suction Stablizer	Greer Hydraulics	GH1-10234	---	568
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	---	---

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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	---	---
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	Senior Engineering Company	1357901	---	---

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Class 3 Piping	Texas Pipe Bending	---	---	---
Containment Fan Cooler AHCF-1A	Joy Manufacturing and American Air Filter	GF14402	---	---
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 Lube Oil Cooler AHSC-1A	Flow Serve	21414	---	---

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Safety Injection Pump Lube Oil Cooler AHSC-1B	Borg Warner	S-96635	---	---
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	Flowserve	03LEX607100/04	---	---
Residual Heat Removal Pump AHRHRP-1B Shaft Seal Heat Exchanger	Flowserve	03LEX607100/01	---	---
Containment Spray Pump APCS-1A Gland Seal Cooler	Helliflow	49486938	---	---



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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	Flowserve	09 08-001	---	---
Service Water Pump APSW-1B2	Flowserve	0908-002	---	---
Spent Fuel Pool Heat Exchanger AHSF	Struther Wells	1-68-06-1519	U11445	---

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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
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	---	---

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<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>
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: September 23, 2008 to October 22, 2009
9. Inspection Period Identification: 2nd
10. Inspection Interval Identification: 4th
11. Applicable Edition of Section XI: 1998 Addenda: 2000
12. Date/Revision of Inspection Plan: February 6, 2009 Revision 3
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 Case: N-460, N-532-4 and N-566-2.

**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): Not Applicable Expiration Date: Not Applicable

Date: November 2, 2009 Signed: Dominion-Kewaunee By: Phillip C. Bukes  
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 CT of CONNECTICUT have inspected the components described in this Owner's Report during the period 23 SEPTEMBER 08 to 22 OCTOBER 09, 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.

James L. Niemerg  
Inspector's Signature

Commissions NB 11622 A, B, I, W, WI 100131  
National Board, State, Province, and Endorsements

Date: 2 NOVEMBER 2009

**ATTACHMENT 4**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**“FORM NIS-1, OWNER’S REPORT FOR INSERVICE INSPECTIONS”  
CLASS MC COMPONENTS  
SECOND TEN-YEAR INTERVAL**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**

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

1. OWNER – DOMINION ENERGY KEWAUNEE, INC.  
N490 HIGHWAY 42 KEWAUNEE, WISCONSIN 54216-9511
2. PLANT – KEWAUNEE POWER STATION, 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: September 26, 2009 to October 22, 2009
9. Inspection Period Identification: 1st
10. Inspection Interval Identification: 2nd
11. Applicable Edition of Section XI: 2001 Addenda: 2003
12. Date/Revision of Inspection Plan: March 9, 2009 Revision: 3
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): Not Applicable Expiration Date: Not Applicable

Date: October 23 2009 Signed: Dominion-Kewaunee By: Phillip C. Bukes  
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 of CONNECTICUT have inspected the components described in this Owner's Report during the period 26 SEPTEMBER 09 to 22 OCTOBER 09, 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.

James W. Murney Commissions NB 11622 A,B,I,N WI 100131  
Inspector's Signature National Board, State, Province, and Endorsements

Date: 23 OCTOBER 2009

**ATTACHMENT 5**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**“FORM NIS-2, OWNER’S REPORT FOR REPAIR/REPLACEMENT ACTIVITIES”  
(33 TOTAL)**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**



# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Date 06/24/2008

Sheet 1 of 2

2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. 1

Work Order KW04-006910

3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Type Code Sym. Stamp NA

Authorization No. Not Applicable

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

Expiration Date Not Applicable

5. (a) Applicable Construction Code NA

(c) Applicable Section XI Code Case NA

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
APCH-1B-SC2	AJAX IRON WORKS	6576	NA	00076	1967	INSTALLED	N

7. Description of Work INSTALL CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1B MOTOR AND BASE SUPPORT PLATES.

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: 06/24/2008

Name of Component: APCH-1B-SC2

Work Order Number: KW04-006910

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bakes Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James A. Naimy  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 03/02/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW04-006939
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date Not Applicable
5. (a) Applicable Construction Code NA (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
APCH-1C-SC3	AJAX IRON WORKS	6577	NA	00077	1967	INSTALLED	N

7. Description of Work INSTALL CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1C MOTOR AND BASE SUPPORTS.

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: 03/02/2009

Name of Component: APCH-1C-SC3

Work Order Number: KW04-006939

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Butek Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. Kearney  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 11/04/2008  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100278054
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date Not Applicable
5. (a) Applicable Construction Code SEC. VIII DIV.1-1975 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
APD-1B	GREER HYDRAULICS	GHI-1846	NA	07001	1975	INSTALLED	Y

7. Description of Work INSTALL REPLACEMENT 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 2237 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: 11/04/2008

Name of Component: APD-1B

Work Order Number: KW100278054

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bakes, Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 11/02/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100278450
3. Work Performed By. Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 36 Class 1 REACTOR COOLANT Expiration Date Not Applicable
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
PR-F2	TEXAS PIPE BENDING	383969	NA	NA	1969	INSTALLED	N

7. Description of Work INSTALL REPLACEMENT 12 STUDS AND 24 NUTS ON CLASS 1 REACTOR COOLANT SYSTEM 6" INLET FLANGE PR-F2 TO 6" VALVE PR-3B.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 2240 psi Test Temp. 546 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/02/2009

Name of Component: PR-F2

Work Order Number: KW100278450

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker, Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James Keimery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09



# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/30/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100280694
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date Not Applicable
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
LD-5	CROSBY ASHTON GAGE CO.	NF	NA	CS109-001	1970	CORRECTED	N

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

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 167 psi Test Temp. 105 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 10/30/2009

Name of Component: LD-5

Work Order Number: KW100280694

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Burke Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James A. Memory  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
4. Identification of System 36 Class 1 REACTOR COOLANT
5. (a) Applicable Construction Code B16.5-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

Date 10/30/2009  
Sheet 1 of 2  
Unit No. 1  
Work Order KW100315676  
Type Code Sym. Stamp NA  
Authorization No. Not Applicable  
Expiration Date Not Applicable

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
PR-2A	MASONEILAN INTERNATIONAL	H-20693-5-2	NA	RC012-002	1969	CORRECTED	N

7. Description of Work CORRECT SEAT LEAKAGE ON CLASS 1 REACTOR COOLANT SYSTEM 3" VALVE PR-2A.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 2240 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: 10/30/2009

Name of Component: PR-2A

Work Order Number: KW100315676

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker, Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. Keimery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner, Dominion Energy Kewaunee, Inc.

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Date 10/13/2009

Sheet 1 of 2

2. Plant Kewaunee Power Station

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. 1

Work Order KW100362587

3. Work Performed By Dominion Energy-Kewaunee

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Type Code Sym. Stamp NA

Authorization No. Not Applicable

4. Identification of System 33 Class 1 SAFETY INJECTION

Expiration Date Not Applicable

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

(c) Applicable Section XI Code Case NA

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
RSI-H63	ITT GRINNELL VALVE COMPANY	NA	NA	NA	1967	INSTALLED	N

7. Description of Work INSTALL REPLACEMENT CLASS 1 SAFETY INJECTION 6" PIPE HYDRAULIC SNUBBER RSI-H63.

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: 10/13/2009

Name of Component: RSI-H63

Work Order Number: KW100362587

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bures Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. Kearney  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Date 10/13/2009

Sheet 1 of 2

2. Plant Kewaunee Power Station

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. 1

Work Order KW100362588

3. Work Performed By Dominion Energy-Kewaunee

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Type Code Sym. Stamp NA

Authorization No. Not Applicable

4. Identification of System 33 Class 2 SAFETY INJECTION

Expiration Date Not Applicable

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

(c) Applicable Section XI Code Case NA

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
RSI-H61	ITT GRINNELL VALVE COMPANY	NA	NA	NA	1967	INSTALLED	N

7. Description of Work INSTALL REPLACEMENT CLASS 1 SAFETY INJECTION 6" PIPE HYDRAULIC SNUBBER RSI-H61.

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: 10/13/2009

Name of Component: RSI-H61

Work Order Number: KW100362588

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillips C. Butler Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. Hamer

Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09



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

1. Owner Dominion Energy Kewaunee, Inc. Date 10/06/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100362674
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 23 Class 2 CONTAINMENT SPRAY Expiration Date Not Applicable
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
ICS-H7	ITT GRINNELL VALVE COMPANY	NA	NA	NA	1967	INSTALLED	N

7. Description of Work INSTALL REPLACEMENT CLASS 2 CONTAINMENT SPRAY 6" PIPE HYDRAULIC SNUBBER ICS-H7.

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: 10/06/2009

Name of Component: ICS-H7

Work Order Number: KW100362674

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bakes Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6/11/08 to 2/20/09, 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.

James A. Kiemeay  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/30/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100375362
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date Not Applicable
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
LD-4B	MASONEILAN INTERNATIONAL, INC.	H20691-1	NA	CS111-004	1970	CORRECTED	N

7. Description of Work CORRECT SEAT LEAKAGE ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE LD-4B

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 2236 psi Test Temp. 110 deg. F

9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 10/30/2009

Name of Component: LD-4B

Work Order Number: KW100375362

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Burke/Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James A. Kurney

Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

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

1. Owner : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Date : October 30, 2009

Sheet : 1 of 2

2. Plant : Kewaunee Power Station  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Unit : No. 1

Work Order Number : KW100385376

3. Work performed by : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Type Code Symbol Stamp Not Applicable

Authorization No. Not Applicable

Expiration Date Not Applicable

4. Identification of System : 36 Class 1 Reactor Coolant System

5. (a) Applicable Construction Code : 1967 ASME B31.1

(b) Applicable Edition of Section XI used for Repair/Replacement Activity : 1998 Edition 2000 Addenda

(c) Applicable Section XI Code Case : NA

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
1" Flange Upstream of LD-300	Dominion Energy	NA	NA	NA	2009	Installed	No

7. Description of Work Install replacement 4 Studs and 8 Nuts on Class 1 Reactor Coolant System 1" Flange upstream of 1" Valve LD-300.

8. Tests Conducted : Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 2240 psi Test Temp 546 °F

9. Remarks: Not Applicable

Applicable Manufacturer's Data Reports to be attached

FORM NIS-2 (Back)

Sheet 2 of 2

Date : October 30, 2009

Name of Component : 1" Flange Upstream of 1" Valve LD-300

Work Order Number : KW100385376

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Butera, Inspection Program Owner Date November 9, 2009  
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 CT of HARTFORD CONNECTICUT have inspected the components described in this Owner's Report during the period 6 MAY 2008 to 22 OCTOBER 2009, 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, 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

James W. Henry  
(Inspector's Signature)

Commissions NB 11622 A,B,I,N, WI 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER 2009

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Date 06/24/2008

Sheet 1 of 2

2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. 1

Work Order KW100390285

3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Type Code Sym. Stamp NA

Authorization No. Not Applicable

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

Expiration Date Not Applicable

5. (a) Applicable Construction Code NA

(c) Applicable Section XI Code Case NA

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
APCH-1B-SC2	AJAX IRON WORKS	6576	NA	00076	1967	CORRECTED	N

7. Description of Work CORRECT BY MODIFYING CLASS 2 CHEMICAL AND VOILUME CONTROL SYSTEM CHARGING PUMP 1B BASE SUPPORTS.

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: 06/24/2008

Name of Component: APCH-1B-SC2

Work Order Number: KW100390285

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bures, Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James A. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09



# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 06/24/2008  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100390344
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date Not Applicable
5. (a) Applicable Construction Code NA (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
APCH-1B-SC2	AJAX IRON WORKS	6576	NA	00076	1967	CORRECTED	N

7. Description of Work PERFORM METAL REMOVAL ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1B MOTOR AND BASE SUPPORT PADS.

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: 06/24/2008

Name of Component: APCH-1B-SC2

Work Order Number: KW100390344

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 May 08 to 22 Oct 09, 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.

James A. Niemerg  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Date 06/24/2008

Sheet 1 of 2

2. Plant Kewaunee Power Station

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. 1

Work Order KW100393957

3. Work Performed By Dominion Energy-Kewaunee

N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Type Code Sym. Stamp NA

Authorization No. Not Applicable

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

Expiration Date Not Applicable

5. (a) Applicable Construction Code NA

(c) Applicable Section XI Code Case NA

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
APCH-1B-SC2	AJAX IRON WORKS	6576	NA	00076	1967	CORRECTED	N

7. Description of Work CORRECT CRACKED I BEAM SUPPORT ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1B BAS ESUPPORT.

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: 06/24/2008

Name of Component: APCH-1B-SC2

Work Order Number: KW100393957

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker / Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James A. Xiemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/19/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100395492
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 34 Class 1 RESIDUAL HEAT REMOVAL Expiration Date Not Applicable
5. (a) Applicable Construction Code ASME SECTION VIII (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
RHR-30B-3	BS&B SAFETY SYSTEMS	NA	NA	AC125-016	2009	INSTALLED	N

7. Description of Work INSTALL REPLACEMENT CLASS 1 RESIDUAL HEAT REMOVAL SYSTEM 1/2" RUPTURE DISC RHR-30B-3.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 358 psi Test Temp. 100 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

## NIS-2 (Back)

Sheet 2 of 2

Date: 10/19/2009

Name of Component: RHR-30B-3

Work Order Number: KW100395492

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James A. Kiernan  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda
6. Identification of Components

Date 09/24/2008  
Sheet 1 of 2  
Unit No. 1  
Work Order KW100420045  
Type Code Sym. Stamp NA

Authorization No. Not Applicable  
Expiration Date Not Applicable

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
CVC-4A	GRINNELL FIRE PROTECTION SYSTEMS	NF	NA	CS033-007	1973	INSTALLED	N

7. Description of Work REPLACED VALVE BONNET ASSEMBLY AND DIAPHRAGM ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 3" VALVE CVC-4A.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 25 psi Test Temp. 90 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

## NIS-2 (Back)

Sheet 2 of 2

Date: 09/24/2008

Name of Component: CVC-4A

Work Order Number: KW100420045

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker / Insurance, Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James A. Niemerg  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09



# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/08/2008  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100421013
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date Not Applicable
5. (a) Applicable Construction Code NA (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
APCH-1A-SC1	AJAX IRON WORKS	6578	NA	00075	1967	INSTALLED	N

7. Description of Work INSTALL CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1A MOTOR AND BASE SUPPORTS.

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: 10/08/2008

Name of Component: APCH-1A-SC1

Work Order Number: KW100421013

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bakes Inservice Inspection Program Owner Date November 9 ,20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James L. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER ,20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda
6. Identification of Components

Date 10/30/2009  
Sheet 1 of 2  
Unit No. 1  
Work Order KW100427863  
Type Code Sym. Stamp NA  
Authorization No. Not Applicable  
Expiration Date Not Applicable

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
LD-60	VELAN VALVE CORPORATION	NF	NA	CS117-001	1971	CORRECTED	N

7. Description of Work CORRECT VALVE PACKING LEAKAGE ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 2" VALVE LD-60.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 164 psi Test Temp. 104 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 10/30/2009

Name of Component: LD-60

Work Order Number: KW100427863

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bakes Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James A. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Date 08/17/2009

Sheet 1 of 2

2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. 1

Work Order KW100453017

3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Type Code Sym. Stamp NA

Authorization No. Not Applicable

4. Identification of System 23 Class 2 CONTAINMENT SPRAY

Expiration Date Not Applicable

5. (a) Applicable Construction Code ASME SECT. II-1986

(c) Applicable Section XI Code Case NA

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
ICS-60A	FLOWERVE	02BPE	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 2" AND 3/4" PIPING AND 3/4" VALVE ICS-60A.

8. Tests conducted      Hydrostatic ☐      Pneumatic ☐      Nominal Operating Pressure ☒      Exempt ☐  
Other ☐      Pressure 285 psi      Test Temp. 73 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

## NIS-2 (Back)

Sheet 2 of 2

Date: 08/17/2009

Name of Component: ICS-60A

Work Order Number: KW100453017

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillips C. Bakes Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James A. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 09/11/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453019
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL Expiration Date Not Applicable
5. (a) Applicable Construction Code B16.34 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
RHR-220	FLOWERVE	08BPE	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM 2" AND 3/4" PIPING AND 3/4" VALVE RHR-220.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 175 psi Test Temp. 85 deg. F

9. Remarks, NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 09/11/2009

Name of Component: RHR-220

Work Order Number: KW100453019

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bueke Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James W. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09



# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/20/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453022
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL Expiration Date Not Applicable
5. (a) Applicable Construction Code ASME SEC.III-1986 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
RHR-40	FLOWERVE	95 BPD	NA	AC008-013	2009	INSTALLED	N

7. Description of Work INSTALL CLASS2 RESIDUAL HEAT REMOVAL SYSTEM 2" AND 3/4" PIPING AND 3/4" VALVE RHR-40.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 160 psi Test Temp. 70 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

## NIS-2 (Back)

Sheet 2 of 2

Date: 10/20/2009

Name of Component: RHR-40

Work Order Number: KW100453022

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Butts Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James A. Keimery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/29/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453023
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL Expiration Date Not Applicable
5. (a) Applicable Construction Code ASME SECT. III-1986 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
RHR-501A	FLOWERVE	03 BPE	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL 2" AND 3/4" PIPING AND 3/4" VALVE RHR-501A ON CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 135 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: 10/29/2009

Name of Component: RHR-501A

Work Order Number: KW100453023

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Lukes Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James W. Henry  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/19/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453024
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 34 Class 2 RESIDUAL HEAT REMOVAL Expiration Date Not Applicable
5. (a) Applicable Construction Code ASME SECT. III-1986 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
RHR-31A-1	FLOWERVE	07 BPE	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL 2" AND 3/4" PIPING AND 3/4" VALVE RHR-31A-1 ON CLASS 1 RESIDUAL HEAT REMOVAL SYSTEM.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 353 psi Test Temp. 99 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 10/19/2009

Name of Component: RHR-31A-1

Work Order Number: KW100453024

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Buke Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James U. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 09/23/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453025
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 33 Class 2 SAFETY INJECTION Expiration Date Not Applicable
5. (a) Applicable Construction Code B16.5-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
SI-301A	ALOYCO INCORPORATED	70A 6354	NA	SI017-001	1972	INSTALLED	N

7. Description of Work INSTALL REPLACEMENT VALVE BONNET ON CLASS 2 SAFETY INJECTION SYSTEM 10" VALVE SI-301A AND INSTALL NEW 1/2" VENT VALVE SI-301A-1.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 35 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: 09/23/2009

Name of Component: SI-301A

Work Order Number: KW100453025

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillips C. Dutka Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James A. Niemcz  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09



# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/30/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453026
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 33 Class 2 SAFETY INJECTION Expiration Date Not Applicable
5. (a) Applicable Construction Code B16.5-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
SI-301B	ALOYCO INCORPORATED	NF	NA	SI017-002	1972	INSTALLED	N

7. Description of Work INSTALL REPLACEMENT BONNET ON CLASS 2 SAFETY INJECTION SYSTEM 10" VALVE SI-301B AND INSTALL NEW 3/4" VENT VALVE SI-301B.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 10 psi Test Temp. 87 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

**NIS-2 (Back)**

Sheet 2 of 2

Date: 10/30/2009

Name of Component: SI-301B

Work Order Number: KW100453026

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker, Inservice Inspection Program Owner Date November 9, 20 09  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

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James A. Niemery  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 11/02/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453027
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 33 Class 2 SAFETY INJECTION Expiration Date Not Applicable
5. (a) Applicable Construction Code ASME SECT.III-1986 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
SI-31-1	FLOWERVE	99 BPD	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL 2" AND 3/4" PIPING AND 3/4" VALVE SI-31-1 ON CLASS 2 SAFETY INJECTION SYSTEM.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 28 psi Test Temp. 54 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

**NIS-2 (Back)**

Sheet 2 of 2

Date: 11/02/2009

Name of Component: SI-31-1

Work Order Number: KW100453027

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker, Inservice Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James W. Kearney  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 10/19/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100453032
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 33 Class 2 SAFETY INJECTION Expiration Date Not Applicable
5. (a) Applicable Construction Code ASME SECT.III-1986 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
SI-309	FLOWERVE	96 BPD	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL 2" AND 3/4" PIPING AND 3/4" VALVE SI-309 ON CLASS 2 SAFETY INJECTION SYSTEM.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 353 psi Test Temp. 105 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

## NIS-2 (Back)

Sheet 2 of 2

Date: 10/19/2009

Name of Component: SI-309

Work Order Number: KW100453032

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillips C. Baker / Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. Niemerg  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511
4. Identification of System 33 Class 2 SAFETY INJECTION
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

Date 10/30/2009  
Sheet 1 of 2  
Unit No. 1  
Work Order KW100494435  
Type Code Sym. Stamp NA  
Authorization No. Not Applicable  
Expiration Date Not Applicable

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
GCC	DOMINION ENERGY	NA	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL CLASS 2 SAFETY INJECTION SYSTEM 6" DIAMETER GAS COLLECTION CHAMBER AND 3/4" AND 1/2" PIPING, SUPPORTS AND VALVES SI-39A-1, SI-39A-2 AND SI-39A-3.

8. Tests conducted Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 2200 psi Test Temp. 56 deg. F

9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

## NIS-2 (Back)

Sheet 2 of 2

Date: 10/30/2009

Name of Component: GCC

Work Order Number: KW100494435

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillips C Baker Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. Kurney  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09



# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc.  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Date 10/14/2009

Sheet 1 of 2

2. Plant Kewaunee Power Station  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. 1

Work Order KW100494435

3. Work Performed By Dominion Energy-Kewaunee  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Type Code Sym. Stamp NA

Authorization No. Not Applicable

4. Identification of System 33 Class 2 SAFETY INJECTION

Expiration Date Not Applicable

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

(c) Applicable Section XI Code Case NA

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
SI-H109	DOMINION ENERGY	NA	NA	NA	2009	INSTALLED	N

7. Description of Work INSTALL CLASS 2 SAFETY INJECTION SYSTEM RIGID SUPPORT SI-H109 FOR 6" DIAMETER GAS COLLECTION CHAMBER.

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: 10/14/2009

Name of Component: SI-H109

Work Order Number: KW100494435

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bikes Insurance Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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.

James W. McNamee  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Dominion Energy Kewaunee, Inc. Date 11/02/2009  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Sheet 1 of 2
2. Plant Kewaunee Power Station Unit No. 1  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Work Order KW100528252
3. Work Performed By Dominion Energy-Kewaunee Type Code Sym. Stamp NA  
N490 Highway 42, Kewaunee, Wisconsin 54216-9511 Authorization No. Not Applicable
4. Identification of System 33 Class 2 SAFETY INJECTION Expiration Date Not Applicable
5. (a) Applicable Construction Code B31.1-1967 (c) Applicable Section XI Code Case NA  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 1998 Edition 2000 Addenda

## 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
SI-W603	DOMINION ENERGY	NA	NA	NA	2009	REPAIRED	N

7. Description of Work CORRECT BY REMOVING 2.5" LINEAR INDICATION ON 6" CIRCUMFERENTIAL WELD SI-W603.

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: 11/02/2009

Name of Component: SI-W603

Work Order Number: KW100528252

### CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Butek, Naenue Inspection Program Owner Date November 9, 20 09  
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 Insurance Company of CT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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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James H. Kennedy  
Inspector's Signature

Commissions NB 11622, I, N, B, A WIS 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER, 20 09

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

1. Owner : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

2. Plant : Kewaunee Power Station  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Date : November 2, 2009

Sheet : 1 of 2

Unit : No. 1

Work Order Number : KW100550233

3. Work performed by : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Type Code Symbol Stamp Not Applicable

Authorization No. Not Applicable

Expiration Date Not Applicable

4. Identification of System : 33 Class 2 Safety Injection System

5. (a) Applicable Construction Code : 1967 ASME B31.1

(b) Applicable Edition of Section XI used for Repair/Replacement Activity : 1998 Edition 2000 Addenda

(c) Applicable Section XI Code Case : NA

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
SI Train A Vent System	Dominion Energy	NA	NA	NA	2009	Installed	No

7. Description of Work Install Class 2 Safety Injection System 2" and 1" Vent System Piping, Flanges and Fittings from connection to 12" Piping downstream of 12" Valve SI-351A to 1" Flange.

8. Tests Conducted : Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure 32 psi Test Temp 86 °F

9. Remarks: Not Applicable

Applicable Manufacturer's Data Reports to be attached

FORM NIS-2 (Back)

Sheet 2 of 2

Date : November 2, 2009

Name of Component : SI Train A Vent System

Work Order Number : KW100550233

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker, Inservice Inspection Program Owner Date November 9, 2009  
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 CT of HARTFORD CONNECTICUT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCTOBER 09, 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, 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

James K. Memory  
(Inspector's Signature)

Commissions NB 11622 ABIN WI 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER 09

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

1. Owner : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

2. Plant : Kewaunee Power Station  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Date : November 2, 2009

Sheet : 1 of 2

Unit : No. 1

Work Order Number : KW100550234

3. Work performed by : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Type Code Symbol Stamp Not Applicable  
Authorization No. Not Applicable  
Expiration Date Not Applicable

4. Identification of System : 33 Class 2 Safety Injection System

5. (a) Applicable Construction Code : 1967 ASME B31.1

(b) Applicable Edition of Section XI used for Repair/Replacement Activity : 1998 Edition 2000 Addenda

(c) Applicable Section XI Code Case : NA

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
SI Train B Vent System	Dominion Energy	NA	NA	NA	2009	Installed	No

7. Description of Work Install Class 2 Safety Injection System 2" and 1" Vent System Piping, Flange and Fittings from connection to 12" Piping downstream of 12" Valve SI-351B to 1" Flange.

8. Tests Conducted : Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 30 psi Test Temp 89 °F

9. Remarks: Not Applicable

Applicable Manufacturer's Data Reports to be attached

# FORM NIS-2 (Back)

Sheet 2 of 2

Date : November 2, 2009

Name of Component : SI Train B Vent System

Work Order Number : KW100550234

## CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Baker Insurance Inspection Program Owner Date November 9, 2009  
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 STEAMBOILER CT of HARTFORD CONNECTICUT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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, 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

James L. Niemery  
(Inspector's Signature)

Commissions NB 11622 ABIN WI 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER 09



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

1. Owner : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

2. Plant : Kewaunee Power Station  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Date : October 30, 2009

Sheet : 1 of 2

Unit : No. 1

Work Order Number : KW100589894

3. Work performed by : Dominion Energy-Kewaunee  
Name  
N490 Highway 42, Kewaunee Wisconsin 54216-9511  
Address

Type Code Symbol Stamp Not Applicable  
Authorization No. Not Applicable  
Expiration Date Not Applicable

4. Identification of System : 36 Class 1 Reactor Coolant System

5. (a) Applicable Construction Code : ASME Section III Class A

(b) Applicable Edition of Section XI used for Repair/Replacement Activity : 1998 Edition 2000 Addenda

(c) Applicable Section XI Code Case : NA

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pressurizer	Westinghouse	1151	68-23	PS&E 0041	1968	Installed	Yes

7. Description of Work Installed Replacement Gasket and 5 Replacement Bolts on Class 1 Reactor Coolant System Pressurizer.  
Manway. Additional Manway Repair/Replacements: 1997: Installed 1 Helicoil, 16 Replacement Manway Bolts and Removed Base  
Metal for Helicoil Insertion: 2001- Installed 2 Helicoils, Removed Base Metal for Helicoil Insertion and Replaced 5 Manway Bolts.

8. Tests Conducted : Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 2240 psi Test Temp 546.5 °F

9. Remarks: Reference Westinghouse Letter Report LTR-SGDA-09-176 Revision 0 " Kewaunee Power Station-  
Applicable Manufacturer's Data Reports to be attached  
Evaluation for Continued Use of Prior Installed Helical-Coils on the Pressurizer Manway Bolt Holes"

**FORM NIS-2 (Back)**

Sheet 2 of 2

Date : October 30, 2009

Name of Component : Pressurizer Manway

Work Order Number : KW100589894

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization No. Not Applicable Expiration Date Not Applicable

Signed Phillip C. Bakes / Inservice Inspection Program Owner Date November 9, 2009  
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 CT of HARTFORD CONNECTICUT have inspected the components described in this Owner's Report during the period 6 MAY 08 to 22 OCT 09, 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, 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

James A. Nierny  
(Inspector's Signature)

Commissions NB 11622 AB 110 WI 100131  
National Board, State, Province, and Endorsements

Date 9 NOVEMBER 09

**ATTACHMENT 6**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**EXAMINATION SUMMARY  
CLASS 1, CLASS 2, AND CLASS 3 INSERVICE INSPECTION PROGRAM  
FOURTH TEN-YEAR INTERVAL**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**

**KEWAUNEE POWER STATION  
4TH INTERVAL: 2ND PERIOD: 2ND OUTAGE  
2009  
EXAMINATION SUMMARY**

**INTRODUCTION**

An Inservice Inspection (ISI) Program (Scheduled and Augmented) was performed at the Kewaunee Power Station from September 25, 2008 through September 22, 2009 (Non Refueling Outage) and September 26, 2009 through October 22, 2009 (Closing of G1 following Refueling Outage) by Kewaunee Power Station, Lambert, MacGill, and Thomas, Inc.(LMT Inc.) and ITLS examination personnel.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda
- Westinghouse NASL-06-8: Pressurizer Heater Sleeve Cracking

The Inservice Inspection Program Plan and Augmented Inspection Program Plan located under Tab C was prepared by Kewaunee Power Station for the 4th Interval: 2nd Period: 2nd Outage as identified in the Kewaunee Power Station Fourth 10-Year Inservice Inspection (ISI) Program 2004 – 2014. Examinations during this Refueling Outage were performed to complete 4th Interval; 2nd Period Examination Requirements of ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda and Kewaunee Power Station Fourth 10-Year Inservice Inspection (ISI) Program 2004-2014.

The following items were examined:

- Reactor Vessel Upper and Lower Internals
- Pressurizer Circumferential and Longitudinal Welds
- Pressurizer Surge Nozzle to Safe End Weld
- Pressurizer Integrally Welded Attachment
- Steam Generator Primary Nozzle to Safe End Welds
- Class 1, Class 2 and Class 3 Piping and Component Supports and Hangers
- Class 1 and Class 2 Steam Generator Primary Manway Bolting, Pressurizer Manway Bolting, Flange Bolting and Valve Bonnet Bolting
- Class 1 and Class 2 Preservice of Safety Injection and Residual Heat Removal Piping, Supports and Gas Collection Chamber

- Letdown Heat Exchanger Circumferential Weld and Integrally Welded Attachments
- Residual Heat Exchanger Circumferential Weld
- Seal Water Injection Filter Circumferential Weld
- Class 1 System Leakage Test
- Class 2 and Class 3 System Leakage 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 Power Station 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 personnel from: Nuclear Regulatory Commission and Hartford Steam Boiler Inspection and Insurance Company of CT.

## **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 2009 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, acceptance by ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Acceptance Criteria, Repair or Replacement or Evaluation are located in Tab F of the Final Report

**TABLE 1**

<b><u>TYPE OR LOCATION OF RECORDABLE INDICATION (RI)</u></b>	<b><u>METHOD</u></b>	<b><u>NO. OF RI'S</u></b>
• Reactor Vessel Upper Internals	Visual (VT-3)	1 Conduit
• Seal Water Injection Filter	Volumetric (UT)	1 Weld
• Gas Collection Chamber	Surface (PT)	1 Weld
• Piping Supports and Hangers	Visual (VT-3)	1 Support
• Valve Bonnet Bolting, Reactor Coolant Pump Bolting, Flange Bolting and Pressurizer Manway Bolting	Visual (VT-3)	10 Items
• System Leakage Pressure Tests	Visual (VT-2)	41 Items

1. Recordable Indication was recorded on the Reactor Vessel Upper Internals Upper Support Plate Thermocouple Conduit at Location C-3. The separated conduit cable was previously recorded in 1995, 2004 and 2006. The separated conduit at location C-3 showed no noticeable change in separation and was previously acceptable under the Kewaunee Power Station Corrective Action Program.
2. Ultrasonic 0° and 60° Indications were recorded on the Seal Water Injection Filter 1A Head Circumferential Weld AFSI-W2. These indications were Acceptable per ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Table IWB-3514-2 and IWC-3510-2. The 0° Indications were typical of the flaws recorded on Seal Water Injection Filters 1A and 1B during Refueling Outages 1982, 1986, 1988, 1992, 1998 and 2001.
3. 1 Linear Indication (2.5" in length) was recorded on the Gas Collection Chamber 6" Circumferential Weld SI-W603. The Linear Indication was Unacceptable per ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Table IWB-3514-2. The Linear Indication was removed by buffing, reexamined and acceptable to ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Standards.
4. Visual (VT-3) Indication recorded on 16" Feedwater Piping Support FDW-H116 was Evaluated and Accepted by: Kewaunee Power Station Engineering and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.

5. Visual (VT-3) Indications recorded on Valve Bonnet Bolting (5 Valves), Reactor Coolant Pump Bolting (Main Flange and No. 1 Seal Housing Bolting), Flange Bolting (2 Flanges) and Pressurizer Manway Bolting (1 Manway) were: (1) Evaluated and Accepted or (2) Repaired, Reexamined and Accepted by: Kewaunee Power Station Engineering or Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.
6. Visual (VT-2) Indications recorded during System Leakage Pressure Tests (41 Items) were: (1) Evaluated and Accepted or (2) Repaired, Reexamined and Accepted by: Kewaunee Power Station Engineering or Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.

## SUMMARY

An Inservice Inspection Program was performed at the Kewaunee Power Station from September 25, 2008 through September 22, 2009 (Non Refueling Outage) and September 26, 2009 through October 22, 2009 (Closing of G1 following Refueling Outage). Examinations were performed as scheduled in the Kewaunee Power Station Fourth 10-Year Inservice Inspection (ISI) Program 2004 -2014 to complete examinations for the 4th Interval; 2nd Period. A total of 55 Recordable Indications were detected. All Recordable Indications were corrected or accepted by ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Acceptance Criteria, Repair/Replacement or Evaluation requirements

Phillip E. Bukes October 28, 2009  
Phillip E. Bukes Date  
Engineering Programs  
Inservice Inspection Program Owner

**ATTACHMENT 7**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**EXAMINATION SUMMARY  
CLASS MC INSERVICE INSPECTION PROGRAM  
SECOND TEN-YEAR INTERVAL**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**



**KEWAUNEE POWER STATION  
2ND INTERVAL: 1ST PERIOD: 2ND OUTAGE  
2009  
EXAMINATION SUMMARY**

**INTRODUCTION**

An Inservice Inspection (ISI) Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Power Station from September 26, 2009 through October 22, 2009 (Closing of G1 following Refueling Outage) by Kewaunee Power Station and Lambert, MacGill and Thomas Inc. examination personnel.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda

The Inservice Inspection Program Plan located under Tab C was prepared by Kewaunee Power Station for the 2nd Interval; 1st Period; 2nd Outage as identified in the Kewaunee Power Station Second 10-Year Inservice Inspection (ISI) Program 2006-2016. Examinations during this Refueling Outage were performed to complete the 2nd Interval, 1st Period examination requirements of ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda and Kewaunee Power Station Second 10-Year Inservice Inspection (ISI) Program 2006-2016.

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

- Accessible Surface Areas
- Moisture Barriers
- Bolted Connections

**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 Power Station 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 all cases the maximum amount achievable was examined.

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

## 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.

The Recordable Indications detected during the 2009 Refueling Outage are listed in Table 1 with a brief summary following. Specific data relative to the Recordable Indications disposition by acceptance per ASME Boiler and Pressure Vessel Code Section XI 2001 Edition 2003 Addenda Acceptance Criteria, Repair/Replacement or Evaluation is located in Tab F of the Final Report.

**TABLE 1**

<b><u>TYPE OR LOCATION OF RECORDABLE INDICATION (RI)</u></b>	<b><u>METHOD</u></b>	<b><u>NO. OF RI'S</u></b>
Reactor Building Containment Vessel Moisture Barrier	General Visual	1 Plate

1. General Visual Indications consisting of 2 separations in the moisture barrier of Plate 67. The moisture barrier was repaired under Work Order KW100588970, reexamined and accepted. The following is provided as required by 10CFR50.55a(b)(2)(ix)(A) for the moisture barrier indications:

**(A) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:** 2 Separations in the moisture barrier caulking one 2" in length and one 3" in length. Potential causes include age related distress and improper application of the moisture barrier sealant.

- (B) **An evaluation of each area, and the result of the evaluation:** Evaluation of the metal containment plate indicated no carbon steel plate degradation and no wetness in the area of moisture barrier separation.
- (C) **A description of the necessary corrective action:** Work Order was generated to repair the separations in the moisture barrier. Repairs were performed and reexamined with acceptable results.

## SUMMARY

An Inservice Inspection Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Power Station from September 26, 2009 through October 22, 2009 (Closing of G1 following Refueling Outage). Examinations were performed as scheduled in the Kewaunee Power Station Second 10-Year Inservice Inspection (ISI) Program 2006-2016. One Recordable Indication (2 separations in Plate 67 moisture barrier) area was detected. The Recordable Indication was repaired, reexamined and accepted by Kewaunee Power Station Engineering Personnel.

Phillip E. Bukes October 23, 2009

Phillip E. Bukes

Date

Engineering Programs

Inservice Inspection Program Owner

**ATTACHMENT 8**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**SUMMARY OF EXAMINATIONS THAT WERE LIMITED BY GEOMETRIC,  
METALLURGICAL, OR DESIGN/ACCESS RESTRICTIONS  
AND ASSOCIATED DATA SHEETS (10 TOTAL)**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**

**SUMMARY OF EXAMINATIONS THAT WERE LIMITED BY GEOMETRIC,  
METALLURGICAL, OR DESIGN/ACCESS RESTRICTIONS**

<b>Year</b>	<b>Component Identification</b>	<b>Method of Examination</b>	<b>% Recorded as Not Examined and Limitation</b>
2009	Pressurizer Circumferential Shell To Head Weld P-W3	UT	2.6% 2 – 2.5" x 2.5" Integrally Welded Pads
2009	Pressurizer Circumferential Shell To Head Weld P-W5	UT	2.6% 2 – 2.5" x 2.5" Integrally Welded Pads
2009	Residual Heat Exchanger 1A Head Circumferential Weld AHRS1-W2	UT	75.0% Integrally Welded Attachments 8" Inlet and Outlet Nozzles
2009	Regenerative Heat Exchanger Head Circumferential Weld ARG-W9	UT	0.4% 2 - 2" Nozzles
2009	Letdown Heat Exchanger Shell Circumferential Weld AHNW-W1	UT	77.5% Shell to Flange Configuration
2009	Seal Water Injection Filter 1A Head Circumferential weld AFSI-W2	UT	43% 2" Inlet Nozzle 3 Integrally Welded Attachments
2009	Nozzle To Safe End Weld RC-W67DM on 14" Pressurizer Surge	UT	74% Nozzle To Safe End Weld Configuration
2009	Circumferential Pipe Weld SI-W74 on 12" Safety Injection	UT	50% Valve To Pipe Weld Configuration
2009	Nozzle To Safe End Weld RC-W76DM on Steam Generator 1A Hotleg	UT	4.5% 4- 3.5" x4.5" Integrally Welded Attachments
2009	Nozzle To Safe End Weld RC-W77DM on Steam Generator 1A Crossover Leg	UT	4.2% 4- 3.5" x4.5" Integrally Welded Attachments

**ATTACHMENT 9**

**2009 INSERVICE INSPECTION SUMMARY REPORT**

**“OAR OWNER’S ACTIVITY REPORT”  
TABLE 1**

**AND**

**“FORM NIS-2A REPAIR/REPLACEMENT CERTIFICATION RECORD”  
TABLE 2**

**KEWAUNEE POWER STATION  
DOMINION ENERGY KEWAUNEE, INC.**



Dominion

# Form OAR-1 Owner's Activity Report

Attachment 1, ER-AA-ISI-100

Page 1 of 3

Report Number: 2009 Refueling Outage

Plant Kewaunee Power Station, N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. No. 1 Commercial service date June 16, 1974 Refueling outage no. K1R30  
(if applicable)

Current inspection interval 4th  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, other)

Current inspection period 2nd  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>)

Edition and Addenda of Section XI applicable to the inspection plans 1998 Edition 2000 Addenda

Date and revision of inspection plans February 6, 2009 Revision 3

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans  
Not Applicable

Code Cases used: N-460, N-532-4 and N-566-2  
(if applicable)

## CERTIFICATE OF CONFORMANCE

I 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) the repair/replacement activities and evaluations supporting the completion of K1R30 conform to the requirements of Section XI.  
(refueling outage number)

Signed Phillip E. Buks Phillip E. Buks, Inservice, Inspection Program Owner Date November 10, 2009  
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 HSB CT of CONNECTICUT have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this 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.

andrew t. cierny Commissions NB 11622 ABIN WI 100131  
Inspector's Signature National Board, State, Province and Endorsements

Date 10 NOVEMBER 09

# Kewaunee Power Station

## Table 1

### Items with Flaws or Relevant Conditions that Required Evaluation for Continued Service

Examination Category	Item Number	Item Description	Evaluation Description	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
B-G-2	B7.20	K1.B7.20.001 - PRESSURIZER MANWAY BOLTING	THREAD DAMAGE MANWAY BOLTS: F106	Yes
B-N-1	B13.10	K1.B13.10.001 - REACTOR VESSEL INTERNALS	SEPARATED CONDUIT AT LOCATION C-3: F105	Yes
B-P	B15.10	K1.B15.10.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SEAL TABLE: CR353880	Yes
B-P	B15.40	K1.B15.40.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON EX. LET. HX.: KW100385374	Yes
B-P	B15.60	K1.B15.60.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON R.C. PUMP 1A SEAL CR353866	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON RC-300A: CR353829	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON RC-100A: CR353832	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON RC-100B: CR353877	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON RC-301A: CR353864	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON RC-23028: CR353868	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON RHR-1A: CR353850	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SI-44A: CR353849	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON LD-332: CR353840	Yes
B-P	B15.70	K1.B15.70.001 - ASME CODE CLASS 1 SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON RC-403: CR353863	Yes
C-A	C1.20	K1.C1.20.017 - SEAL WATER INJECTION FILTER 1A HEAD CIRCUMFERENTIAL WELD	ULTRASONIC INDICATIONS WELD AFSI-W2: F100	Yes
C-F-1	C5.21	K1.C5.21.118 - 6" CIRCUMFERENTIAL WELD	LINEAR INDICATION WELD SI-W603: F104	Yes
C-H	C7.10	K1.C7.10.006 - CHEMICAL AND VOLUME CONTROL	EVIDENCE OF LEAKAGE ON LET.HX. STUD: CR116439	Yes
C-H	C7.10	K1.C7.10.006 - CHEMICAL AND VOLUME CONTROL	EVIDENCE OF LEAKAGE ON CVC-23111-1: CR116354	Yes
C-H	C7.10	K1.C7.10.006 - CHEMICAL AND VOLUME CONTROL	EVIDENCE OF LEAKAGE ON CVC-101C: CR090284	Yes
C-H	C7.10	K1.C7.10.006 - CHEMICAL AND VOLUME CONTROL	EVIDENCE OF LEAKAGE ON SW INJ. FILTER 1A: CR331022	Yes
C-H	C7.10	K1.C7.10.005 - SI INSIDE CONTAINMENT SYSTEM PRESSURE	EVIDENCE OF LEAKAGE ON SI-303B: CR353804	Yes
C-H	C7.10	K1.C7.10.006 - CHEMICAL AND VOLUME CONTROL	EVIDENCE OF LEAKAGE ON PIA-183A ROOT VALVE: CR116406	Yes
C-H	C7.10	K1.C7.10.005 - SI INSIDE CONTAINMENT SYSTEM PRESSURE	EVIDENCE OF LEAKAGE ON SI-46: CR353786	Yes
C-H	C7.10	K1.C7.10.005 - SI INSIDE CONTAINMENT SYSTEM PRESSURE	EVIDENCE OF LEAKAGE ON SI-210B: CR 353818	Yes
C-H	C7.10	K1.C7.10.005 - SI INSIDE CONTAINMENT SYSTEM PRESSURE	EVIDENCE OF LEAKAGE ON SI-121: CR353784	Yes
C-H	C7.10	K1.C7.10.005 - SI INSIDE CONTAINMENT SYSTEM PRESSURE	EVIDENCE OF LEAKAGE ON SI-11B: CR353785	Yes
C-H	C7.10	K1.C7.10.006 - CHEMICAL AND VOLUME CONTROL	EVIDENCE OF LEAKAGE ON LET HX FLANGE: CR116438	Yes
D-B	D2.10	K1.D2.10.004 - COMPONENT COOLING WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON CC-609A: CR349958	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SW-43B2 UNION FITTING: CR334793	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SW-500B: CR334785	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SW(R16)-3: CR334780	Yes



# Kewaunee Power Station

## Table 1

### Items with Flaws or Relevant Conditions that Required Evaluation for Continued Service

Examination Category	Item Number	Item Description	Evaluation Description	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SW-1299B: CR334778	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON CONT. FAN COIL 1D: CR349565	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON FS-16809 FITTING: CR28221	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON HS-2203A: CR333879	Yes
D-B	D2.10	K1.D2.10.004 - COMPONENT COOLING WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON CC-18228-2: CR349965	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON FS-16810 FITTING: CR28221	Yes
D-B	D2.10	K1.D2.10.004 - COMPONENT COOLING WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON CCW PUMP 1B: CR350129	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SW-901B-1: CR340570	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SW-914C: CR349618	Yes
D-B	D2.10	K1.D2.10.002 - SERVICE WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON SW-910C: CR349617	Yes
D-B	D2.10	K1.D2.10.004 - COMPONENT COOLING WATER SYSTEM PRESSURE TEST	EVIDENCE OF LEAKAGE ON FLANGE BY CC-605A: CR349973	Yes
NA	NA	K1.NA.909 - BORIC ACID INJECTION AND RECIRCULATION	EVIDENCE OF LEAKAGE ON BA TRANS. PUMP 1B: CR111149	No
NA	NA	K1.NA.909 - BORIC ACID INJECTION AND RECIRCULATION	EVIDENCE OF LEAKAGE ON BA TRANS. PUMP 1A: CR100394	No
NA	NA	K1.NA.783 - ELEMENT-RC LOOP B RTD LOOP FLANGE ORIFICE	EVIDENCE OF LEAKAGE ON FLANGE FE-459: F108	No
NA	NA	K1.NA.905 - REACTOR COOLANT PUMP 1A	EVIDENCE OF LEAKAGE ON MAIN FLANGE BOLTING: F110	No
NA	NA	K1.NA.813 - REACTOR COOLANT PUMP 1A NO.1 SEAL HOUSING BOLTS	EVIDENCE OF LEAKAGE ON NO. 1 SEAL BOLTS: F109	No
NA	NA	K1.NA.106 - VALVE-CONTROL-COLDLEG LOOP B TO	EVIDENCE OF LEAKAGE ON VALVE PS-1B BOLTING: F112	No
NA	NA	K1.NA.090 - VALVE-CHECK-LOOP B HOT LEG INJECTION LINE	EVIDENCE OF LEAKAGE ON VALVE SI-303B: F111	No
NA	NA	K1.NA.088 - VALVE-MOTOR-RCS LOOP A SUPPLY TO RHR PUMPS	EVIDENCE OF LEAKAGE ON VALVE RHR-1A: F101	No
NA	NA	K1.NA.088 - VALVE-MOTOR-RCS LOOP A SUPPLY TO RHR PUMPS	THREAD DAMAGE ON VALVE RHR-1A: F103	No
NA	NA	K1.NA.651 - VALVE-MOTOR-RCP LOOP B SUPPLY TO RHR PUMPS	EVIDENCE OF LEAKAGE ON VALVE RHR-1B: F102	No
NA	NA	K1.NA.784 - ELEMENT-RC LOOP A RTD LOOP FLOW ORIFICE	EVIDENCE OF LEAKAGE ON FLANGE FE-458: F107	No
NA	NA	NA	EVIDENCE OF LEAKAGE ON LT-24013: CR353825	No
NA	NA	K1.NA.239 - HANGER-SPRING	OUT OF TOLERANCE SETTING ON FDW-H116: F113	No

## FORM NIS-2A REPAIR/REPLACEMENT CERTIFICATION RECORD

### OWNER'S CERTIFICATE OF COMPLIANCE

I certify that the Repair/Replacement activities represented by Repair/Replacement Plan number K1R30 conform to the requirements of Section XI

Edition and Addenda of Section XI used: 1998 Edition 2000 Addenda

Code Cases used: N-532-4  
(if applicable)

Signed Phillip E. Bukes Phillip E. Bukes Date November 10, 2009  
Owner or Owner's Designee

### 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 CT of HARTFORD CONNECTICUT have inspected the components described in Repair/Replacement Plan number K1R30, and state that to the best of my knowledge and belief, the Owner has performed all the activities described in the Repair/Replacement Plan in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the activities described in the Repair/Replacement Plan. 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

James W. Liemery  
Inspector's Signature

Commissions NB11622 ABIN WI100131  
National Board, State, Province, and Endorsements

Date 10 NOVEMBER 09

**Kewaunee Power Station**  
**Table 2 K1R30 Repair/Replacement Plan**

**Abstract of Repairs, Replacements or Corrective Measures  
Required for Continued Service**

Code Class	Corrected, Removed or Installed	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)	Date Complete	Repair / Replacement Plan Number K1R30
1	Installed	1" Flange Upstream of LD-300	Install Replacement 4 Studs and 8 Nuts	No	10/21/2009	Work Order KW100385376
1	Corrected	PR-2A	Correct by Repairing Seat Leakage on 3" Valve PR-2A	No	10/22/2009	WorkOrder KW100315676
1	Installed	Pressurizer Manway	Install Replacement Gasket and 5 Replacement Manway Bolts	No	10/30/2009	Work Order KW100589894
1	Installed	PR-F2	Install 12 Studs and 24 Nuts on 6" Inlet Flange PR-F2 to PR-3B	No	10/22/2009	Work Order KW100278450
1	Installed	RHR-30B-3	Install Replacement 1/2" Rupture Disc RHR-30B-3	No	10/18/2009	Work Order KW100395492
1	Installed	RSI-H63	Install Replacement Hydraulic Snubber RSI-H63	No	10/13/2009	Work Order KW100362587
2	Installed	APCH-1A-SC1	Install Class 2 Chemical and Volume Control System Charging Pump 1A Motor and Base Support Plates.	No	12/08/2008	Work Order KW100421013
2	Installed	APCH-1B-SC2	Install Class 2 Chemical and Volume Control System Charging Pump 1B Motor and Base Support Plates.	No	06/24/2008	Work Order KW04-006910
2	Corrected	APCH-1B-SC2	Correct by Modifying Class 2 Chemical and Volume Control System Charging Pump 1B Base Supports.	No	06/24/2008	Work Order KW100390285
2	Corrected	APCH-1B-SC2	Perform Metal Removal on Class 2 Chemical and Volume Control System Charging Pump 1B Motor and Base Support Pads.	No	06/24/2008	Work Order KW100390344
2	Corrected	APCH-1B-SC2	Correct Cracked I Beam Support on Class 2 Chemical and Volume Control System Charging Pump 1B Base Support.	No	06/24/2008	Work Order KW100393957
2	Installed	APCH-1C-SC3	Install Class 2 Chemical and Volume Control System Charging Pump 1C Motor and Base Support Plates	No	02/26/2009	Work Order KW04-006939
2	Installed	APD-1B	Install Replacement Dampener Spring on Chagring Pump 1B	No	11/04/2008	Work Order KW100278054
2	Installed	CVC-4A	Install Replacement Valve Bonnet and Diaphragm	No	09/24/2008	Work Order KW100420045

**Kewaunee Power Station**  
**Table 2 K1R30 Repair/Replacement Plan**

**Abstract of Repairs, Replacements or Corrective Measures  
Required for Continued Service**

Code Class	Corrected, Removed or Installed	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)	Date Complete	Repair / Replacement Plan Number K1R30
2	Installed	Gas Collection Chamber	Install 6" Gas Collection Chamber and 3/4" Piping, Supports and Valves SI-39A-1, SI-39A-2 and SI-39-A3	No	10/20/2009	Work Order KW100494435
2	Installed	ICS-60A	Install 2" and 3/4" Piping and 3/4" Valve ICS-60A	No	08/17/2009	Work Order KW100453017
2	Installed	ICS-H7	Install Replacement Hydraulic Snubber ICS-H7	No	10/06/2009	Work Order KW100362674
2	Corrected	LD-4B	Correct by Repairing Seat Leakage on 2" Valve LD-4B	No	10/21/2009	Work Order KW100375362
2	Corrected	LD-5	Correct by Repairing 2" Valve LD-5	No	10/22/2009	Work Order KW100280694
2	Corrected	LD-60	Correct Valve Packing Leakage on 2" Valve LD-60	No	10/20/2009	Work Order KW100427863
2	Installed	RHR-220	Install 2" and 3/4" Piping and 3/4" Valve RHR-220	No	09/10/2009	Work Order KW100453019
2	Installed	RHR-31A-1	Install 2" and 3/4" Piping and 3/4" Valve RHR-31A-1	No	10/21/2009	Work Order KW100453024
2	Installed	RHR-40	Install 2" and 3/4" Piping and 3/4" Valve RHR-40	No	10/10/2009	Work Order KW100453022
2	Installed	RHR-501A	Install 2" and 3/4" Piping and 3/4" Valve RHR-501A	No	10/10/2009	Work Order KW100453023
2	Installed	RSI-H61	Install Replacement Hydraulic Snubber RSI-H61	No	10/13/2009	Work Order KW100362588
2	Installed	SI Train A Vent System	Install 2" and 1" Vent System Piping, Flange and Fittings from 12" Piping to 1" Flange Downstream of 12" Valve SI-351A	No	09/23/2009	Work Order KW100550233
2	Installed	SI Train B Vent System	Install 2" and 1" Vent System Piping, Flange and Fittings from 12" Piping to 1" Flange Downstream of 12" Valve SI-351B	No	09/17/2009	Work Order KW100550234
2	Installed	SI-301A	Install Replacement Valve Bonnet on 10" Valve SI-301A and Install 1/2" Vent Valve SI-301A-1	No	09/23/2009	Work Order KW100453025

**Kewaunee Power Station****Table 2 K1R30 Repair/Replacement Plan****Abstract of Repairs, Replacements or Corrective Measures  
Required for Continued Service**

Code Class	Corrected, Removed or Installed	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)	Date Complete	Repair / Replacement Plan Number K1R30
2	Installed	SI-301B	Install Replacement Bonnet on 10" Valve SI-301B and Install 3/4" Vent Valve SI-301B-1	No	10/19/2009	Work Order KW100453026
2	Installed	SI-309	Install 2" and 3/4" Piping and 3/4" Vent Valve SI-309	No	10/19/2009	Work Order KW100453032
2	Installed	SI-31-1	Install 2" and 3/4" Piping and 3/4" Valve SI-31-1	No	10/19/2009	Work Order KW100453027
2	Installed	SI-H109	Install Gas Collection Chamber Welded Attachment Support SI-H109	No	10/12/2009	Work Order KW100494435
2	Corrected	SI-W603	Correct by Removing 2.5" Linear Indication	Yes	10/04/2009	Work Order KW100528252