Dominion Energy Kewaunee, Inc.
N490 Highway 42, Kewaunee, WI 54216-9511

Dominion®

JUN 13 2011

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

Serial No. 11-222
KPS/LIC/JG: R1
Docket No. 50-305
License No. DPR-43

DOMINION ENERGY KEWAUNEE, INC.
KEWAUNEE POWER STATION
2011 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 2011 refueling outage at the Kewaunee Power Station (KPS). The refueling outage took place from February 26, 2011 through March 26, 2011. This letter transmits the ISI Report as required by paragraph IWA-6230 of ASME Section XI. ISI activities performed at KPS during the period between November 17, 2010 and February 25, 2011 are also covered by this report.

Two separate ASME Section XI ISI 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 (MC). The 2011 refueling outage inservice inspections met the requirements of these two distinct inspection program intervals as listed below:

a. Class 1, Class 2, and Class 3 component inspections were performed for the first inspection outage of the third 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 ISI Program 2004-2014.

b. Class MC component inspections were performed for the first inspection outage of the second 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 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 closure head bare metal
- Reactor vessel closure head control rod drive mechanisms
- Reactor vessel closure head studs, nuts and washers
- Reactor vessel bottom mounted instrumentation
- Steam generator nozzle inner radius

A047
NRR

- Steam generator nozzle to safe end welds
- Pressurizer nozzle inner radius and pressurizer heater penetrations
- Reactor coolant pump main flange bolting and No. 1 seal housing bolting
- Class 1, Class 2, and Class 3 piping and component supports and hangers
- Class 1 valves
- Class 1 and Class 2 steam generator primary manway bolting, pressurizer manway bolting, flange bolting and valve bonnet bolting
- Class 2 preservice of auxiliary feedwater piping and supports
- Class 2 preservice of containment spray piping and supports
- Class 2 safety injection pumps integrally welded attachments
- Class 1 system leakage test
- Class 2 and Class 3 system leakage tests
- Steam generator 1A and 1B tubing eddy current examinations

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 the KPS Snubber Program.

Documentation summarizing the ISI activities performed during the KPS 2011 refueling outage and associated results is provided in Attachments 1-6 of this letter. The final reports for each of these examinations are maintained in the Quality Assurance/Quality Control Records Vault at KPS.

Attachment 7 provides additional "Form NIS-2 Owner's Report For Repair/Replacement Activity" (5 total) that were inadvertently omitted from the 2008 and 2009 ISI Summary Reports (references 1 and 2).

The next refueling outage at KPS is tentatively scheduled for the Spring of 2012.

If you have questions or require additional information, please feel free to contact Mr. Jack Gadzala at (920) 388-8604.

Very truly yours,

Stephen E. Scace
Site Vice President
Kewaunee Power Station

References:

1. Letter from Gerald T. Bischof (DEK) to Document Control Desk (NRC), "2008 Inservice Inspection Summary Report," dated July 29, 2008 [ADAMS Accession No. ML082180656].
2. Letter from J. Alan Price (DEK) to Document Control Desk (NRC), "2009 Inservice Inspection Summary Report," dated January 4, 2010 [ADAMS Accession No. ML100070554].

Attachments:

1. Summary of Relevant Conditions and Disposition.
2. Examination Summary for Class 1, Class 2, and Class 3 Inservice Inspection Program for Fourth Ten-Year Interval.
3. Examination Summary for Class MC Inservice Inspection Program for Second Ten-Year Interval.
4. Examination Summary for Steam Generator Tubing Eddy Current Examinations.
5. Summary of Examinations that were Limited by Geometric, Metallurgical, or Design/Access Restrictions (30 Total).
6. Form OAR-1 Owner's Activity Report; Table 1 Items with Flaws or Relevant Conditions that Required Evaluation for Continued Service; Table 2 Abstract of Repair/ Replacement Activities Required for Continued Service.
7. 2008 and 2009 Inservice Summary Reports Additional "Form NIS-2 Owner's Report for Repair/Replacement Activity" (5 Total).

Commitments made by this letter: NONE

cc: Regional Administrator
U. S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Suite 210
Lisle, Illinois 60532-4352

Mr. K. D. Feintuch
Project Manager
U.S. Nuclear Regulatory Commission
One White Flint North, Mail Stop O8-H4A
11555 Rockville Pike
Rockville, MD 20852-2738

NRC Senior Resident Inspector
Kewaunee Power Station

ATTACHMENT 1

2011 INSERVICE INSPECTION SUMMARY REPORT

SUMMARY OF RELEVANT CONDITIONS AND DISPOSITION

KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.

SUMMARY OF RELEVANT CONDITIONS AND DISPOSITION

Type or Location of Relevant Conditions	Examination Method	No. of Relevant Conditions (Description)
1. Valve Bonnet Bolting, Reactor Coolant Pump Bolting and Flange Bolting	Visual (VT-1, VT-3)	5 (Items)
2. System Leakage Pressure Tests	Visual (VT-2)	17 (Items)

Dispositioning of Class 1, Class 2, and Class 3 relevant conditions 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 relevant conditions 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. Relevant conditions for Class 1, Class 2, Class 3, and Class MC components have been summarized with disposition as noted below:

1. Visual (VT-1, VT-3) relevant conditions recorded on valve bonnet bolting (two valves), reactor coolant pump bolting (main flange and No. 1 seal housing bolting), flange bolting (one flange) were (1) evaluated and accepted, or (2) corrected, reexamined, and accepted by Kewaunee Power Station (KPS) Engineering or Inservice Inspection (ISI) personnel. All dispositioned relevant conditions were reviewed by the Authorized Nuclear Inservice Inspector.

2. Visual (VT-2) relevant conditions recorded during system leakage pressure tests (17 items) were evaluated and accepted by KPS Engineering or ISI personnel. All dispositioned relevant conditions were reviewed by the Authorized Nuclear Inservice Inspector.

ATTACHMENT 2

2011 INSERVICE INSPECTION SUMMARY REPORT

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

KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.

KEWAUNEE POWER STATION
4TH INTERVAL: 3RD PERIOD: 1ST OUTAGE
2011
EXAMINATION SUMMARY

INTRODUCTION

An Inservice Inspection (ISI) Program (Scheduled and Augmented) was performed at the Kewaunee Power Station from November 17, 2010 through February 25, 2011 (Non Refueling Outage) and from February 26, 2011 through March 26, 2011 (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 were prepared by Kewaunee Power Station for the 4th Interval: 3rd Period: 1st 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 commence 4th Interval; 3rd 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 Closure Head Bare Metal
- Reactor Vessel Closure Head Control Rod Drive Mechanisms
- Reactor Vessel Closure Head Studs, Nuts and Washers
- Reactor Vessel Bottom Mounted Instrumentation
- Steam Generator Nozzle Inner Radius
- Steam Generator Nozzle to Safe End Welds
- Pressurizer Nozzle Inner Radius and Pressurizer Heater Penetrations
- Reactor Coolant Pump Main Flange Bolting and No. 1 Seal Housing Bolting
- Class 1, Class 2 and Class 3 Piping and Component Supports and Hangers
- Class 1 Valves
- Class 1 and Class 2 Steam Generator Primary Manway Bolting, Pressurizer Manway Bolting, Flange Bolting and Valve Bonnet Bolting

- Class 2 Preservice of Auxiliary Feedwater Piping and Supports
- Class 2 Preservice of Containment Spray Piping and Supports
- Class 2 Safety Injection Pumps Integrally Welded Attachments
- 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 Relevant Conditions being noted on the basis of procedure recording criteria.

Relevant Conditions detected during the 2011 Refueling Outage are listed in Table 1 with a brief summary following. Specific data relative to all Relevant Conditions and their dispositions by either corrective measures or acceptance by ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Acceptance Criteria or Evaluation are located in Tab F of the Final Report.

TABLE 1

TYPE OR LOCATION OF RELEVANT CONDITIONS	METHOD	NO. OF RELEVANT CONDITIONS
• Valve Bonnet Bolting, Reactor Coolant Pump Bolting and Flange Bolting	Visual (VT-1, VT-3)	5 Items
• System Leakage Pressure Tests	Visual (VT-2)	17 Items

1. Visual (VT-1,VT-3) Relevant Conditions recorded on Valve Bonnet Bolting (2 Valves), Reactor Coolant Pump Bolting (Main Flange and No. 1 Seal Housing Bolting) and Flange Bolting (1 Flange) were: (1) Evaluated and Accepted or (2) Corrected, Reexamined and Accepted by: Kewaunee Power Station Engineering or Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.

2. Visual (VT-2) Relevant Conditions recorded during System Leakage Pressure Tests (17 Items) were: (1) Evaluated 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 November 17, 2010 through February 25, 2011 (Non Refueling Outage) and from February 26, 2011 through March 26, 2011 (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 commence examinations for the 4th Interval; 3rd Period. A total of 22 Relevant Conditions were detected. All Relevant Conditions were corrected or accepted by ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Acceptance Criteria or Evaluation requirements.

Phillip E. Bukes April 6, 2011

Phillip E. Bukes Date
Engineering Programs
Inservice Inspection Program Owner

ATTACHMENT 3

2011 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: 2ND PERIOD: 1ST OUTAGE
2011
EXAMINATION SUMMARY

INTRODUCTION

An Inservice Inspection (ISI) Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Power Station from February 26, 2011 through March 26, 2011 (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; 2nd Period; 1st 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 commence the 2nd Interval, 2nd 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 No Relevant Conditions being noted on the basis of procedure recording criteria.

SUMMARY

An Inservice Inspection Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Power Station from February 26, 2011 through March 26, 2011 (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. Examinations resulted with No Relevant Conditions being noted on the basis of procedure recording criteria.

Phillip E. Bukes — April 6, 2011

Phillip E. Bukes — Date
Engineering Programs
Inservice Inspection Program Owner

ATTACHMENT 4

2011 INSERVICE INSPECTION SUMMARY REPORT

EXAMINATION SUMMARY
STEAM GENERATOR TUBING EDDY CURRENT EXAMINATIONS

KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.

Kewaunee Power Station
Steam Generator Eddy Current Inspection Summary

During the Spring 2011 KPS refueling outage, a steam generator inspection in accordance with KPS Technical Specification 5.5.7 was completed for both steam generators 1A and 1B.

Each of the following was performed in BOTH steam generators 1A and 1B

- 100% Full-Length Inspection utilizing Bobbin Coil
- 20% Hot Leg Top of Tubesheet (+/- 3") utilizing Rotating Coil
- 20% Row 1 u-bend region utilizing Rotating Coil
- Special Interest – 60 locations / SG
- As Found Bowl Scans
- Divider Plate Visual Inspection
- FME Bowl Closeouts

No active degradation mechanisms were discovered during the Spring 2011 inspection.

No tubes required plugging or in situ pressure testing during the Spring 2011 inspection.

To date, following the Spring 2011 inspection, there are zero total tubes plugged in both steam generator 1A and 1B.

Condition Monitoring was completed. Neither steam generator 1A nor 1B exceeded any performance criteria during the last inspection cycle (since fall 2006 inspection). No damage mechanisms were required to be evaluated due to the lack of a degradation mechanism being found during the inspection. Steam Generator Operational Assessment from fall 2006 inspection was concluded to be conservative and no corrective actions were required.

There are zero tubes plugged and zero sleeves installed in both steam generator 1A and 1B. Therefore, effective plugging is 0% (zero) in both steam generator 1A and 1B.

Michael J. Backus 4/13/2011

Michael J. Backus Date
Engineering Programs
Steam Generator Program Owner

ATTACHMENT 5

2011 INSERVICE INSPECTION SUMMARY REPORT

SUMMARY OF EXAMINATIONS THAT WERE LIMITED BY GEOMETRIC, METALLURGICAL, OR DESIGN/ACCESS RESTRICTIONS (30 TOTAL)

KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.

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

Year	Component Identification	Method of Examination	% Recorded as Not Examined and Limitation
2011	Replacement Steam Generator 1A Nozzle Inside Radius Section SG-IR27	UT	6.3% Integrally Welded Attachment
2011	Replacement Steam Generator 1A Nozzle Inside Radius Section SG-IR28	UT	6.3% Integrally Welded Attachment
2011	Circumferential Pipe Weld AFW-W201 on 3" Auxiliary Feedwater	UT	25% Pipe To Valve Weld Configuration
2011	Circumferential Pipe Weld AFW-W202 on 3" Auxiliary Feedwater	UT	25% Valve To Pipe Weld Configuration
2011	Circumferential Pipe Weld AFW-W205 on 3" Auxiliary Feedwater	UT	25% Pipe To Valve Weld Configuration
2011	Circumferential Pipe Weld AFW-W206 on 3" Auxiliary Feedwater	UT	25% Valve To Pipe Weld Configuration
2011	Circumferential Pipe Weld AFW-W214 on 3" Auxiliary Feedwater	UT	25% Pipe To Valve Weld Configuration
2011	Circumferential Pipe Weld AFW-W215 on 3" Auxiliary Feedwater	UT	25% Valve To Elbow Weld Configuration
2011	Circumferential Pipe Weld AFW-W218 on 3" Auxiliary Feedwater	UT	25% Pipe To Valve Weld Configuration
2011	Circumferential Pipe Weld AFW-W219 on 3" Auxiliary Feedwater	UT	25% Valve To Elbow Weld Configuration

Year	Component Identification	Method of Examination	% Recorded as Not Examined and Limitation
2011	Circumferential Pipe Weld AFW-W221 on 3" Auxiliary Feedwater	UT	0%. Valve to Valve Weld Configuration.
2011	Circumferential Pipe Weld AFW-W222 on 3" Auxiliary Feedwater	UT	25% Valve To Pipe Weld Configuration
2011	Circumferential Pipe Weld AFW-W233 on 3" Auxiliary Feedwater	UT	25% Pipe To Valve Weld Configuration
2011	Circumferential Pipe Weld AFW-W234 on 3" Auxiliary Feedwater	UT	25% Valve To Pipe Weld Configuration.
2011	Circumferential Pipe Weld PR-W8 on 3" Reactor Coolant	UT	50% Tee to Pipe Weld Configuration
2011	Circumferential Pipe Weld ICS-W183 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld ICS-W184 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld ICS-W185 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld ICS-W186 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld ICS-W189 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld ICS-W190 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration

Year	Component Identification	Method of Examination	% Recorded as Not Examined and Limitation
2011	Circumferential Pipe Weld ICS-W191 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld ICS-W192 on 6" Containment Spray	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld FW-W24 on 16" Feedwater	UT	8% Pipe to Valve Weld Configuration
2011	Circumferential Pipe Weld RTD-W81 on 3" Reactor Coolant	UT	50% Pipe to Flange Weld Configuration
2011	Circumferential Pipe Weld RTD-W83 on 3" Reactor Coolant	UT	50% Pipe to Valve Weld Configuration
2011	Circumferential Branch Connection RC-W3BC on 8" Reactor Coolant	UT	50% Branch Connection Weld Configuration
2011	Nozzle To Safe End Weld RC-W78DM on Steam Generator 1B Hot Leg	UT	4.5% 4 – 4.5" x 3.5" Welded Lugs and Nozzle to Safe End Weld Configuration
2011	Nozzle To Safe End Weld RC-W79DM on Steam Generator 1B Crossover Leg	UT	4.2% 4 – 4.5" x 3.5" Welded Lugs and Nozzle to Safe End Weld Configuration
2011	Circumferential Branch Connection RC-W34BC on 8" Reactor Coolant	UT	50% Branch Connection Weld Configuration

ATTACHMENT 6

2011 INSERVICE INSPECTION SUMMARY REPORT

FORM OAR-1 OWNER'S ACTIVITY REPORT

TABLE 1 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

TABLE 2 ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.

Dominion

Form OAR-1 Owner's Activity Report

Report Number: 2011 Refueling Outage Class 1, Class 2 and Class 3

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

Unit No. No.1 (if applicable) Commercial service date June 16, 1974 Refueling outage no. K1R31

Current inspection interval 4th (1^{st}, 2^{nd}, 3^{rd}, 4^{th}, other)

Current inspection period 3rd (1^{st}, 2^{nd}, 3^{rd})

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

Date and revision of inspection plans September 14, 2010 Revision 4

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 KR31 (refueling outage number) conform to the requirements of Section XI.

Signed Phillip E Bakes I nservice Inspection Program Owner Date april 28, 2011
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 HSBCT 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.

James W Camery Commissions NB11622ABIN, W1100131
Inspector's Signature National Board, State, Province and Endorsements

Date 28 APRIL 11

Dominion

Form OAR-1 Owner's Activity Report

Report Number: 2011 Refueling Outage Class MC

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

Unit No. No.1 (if applicable) Commercial service date June 16, 1974 Refueling outage no. K1R31

Current inspection interval 2nd (1st, 2nd, 3rd, 4th, other)

Current inspection period 2nd (1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2001 Edition 2003 Addenda

Date and revision of inspection plans March 9, 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: Not Applicable (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 KR31 (refueling outage number) conform to the requirements of Section XI.

Signed Phillip C. Baker Inservice Inspection Program Owner Date April 6, 2011
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 of CT 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.

Daniel Niemeyer Commissions NB 11622 ABIN, WI 100131
Inspector's Signature National Board, State, Province and Endorsements

Date 6 APR 11

Kewaunee Power Station
Table 1 - 4th Interval: 3rd Period: 1st Outage - KR31
Items With Flaws or Relevant Conditions That Required Evaluation For Continued Service

Examination Category	Item Number	Item Description	Evaluation Decsription
B-G-2	B7.60	REACTOR COOLANT PUMP 1A MAIN FLANGE BOLTING. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
B-G-2	B7.70	3" VALVE PS-1B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTED PER ENGINEERING EVALUATION.
B-P	B15.70	6" VALVE SI-302B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
B-P	B15.70	0.75" VALVE PR-51. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
B-P	B15.70	6" VALVE SI-303B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
B-P	B15.70	0.375" VALVE RC-440-3. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
B-P	B15.70	0.375" VALVE RC-402. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
B-P	B15.70	0.375" VALVE LD-332. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
C-H	C7.10	8" VALVE RHR-6B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
C-H	C7.10	SAFETY INJECTION PUMP 1A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
C-H	C7.10	6" FLANGE FE-928. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
C-H	C7.10	8" FLANGE FE-27136. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
C-H	C7.10	8" VALVE RHR-100A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2
C-H	C7.10	8" VALVE RHR-10B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
C-H	C7.10	8" VALVE RHR-7A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
C-H	C7.10	8" VALVE RHR-7B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
C-H	C7.10	8" VALVE RHR-8B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
C-H	C7.10	1/2" VALVE SI-39A-2. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
C-H	C7.10	4" VALVE SI-7A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALAUTION.
C-H	C7.10	3" FLANGE FE-924. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
C-H	C7.10	6" VALVE ICS-7A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
D-B	D2.10	6" VALVE SW-1500 LIGHT BROWN BORIC ACID ON VALVE BODY TO VALVE BONNET INTERFACE. RECORDED 2ND PERIOD.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
NA	NA	14" VALVE SW-1A1 DEGRADATION ON VALVE BONNET STUDS.	ACCEPTABLE PER ENGINEERING EVALUATION.

Kewaunee Power Station
Table 2 - 4th Interval: 3rd Period: 1st Outage - KR31
Abstract of Repair/Replacement Activities Required For Continued Service

Code Class	Item Description	Description of Work	Date Complete	Repair / Replacement Plan Number
1	0.375" VALVE RC-402	CORRECTED DUE TO EVIDENCE OF COOLANT LEAKAGE.	03/21/2011	F100
2	RSI-H100	REPAIRED HYDRAULIC SNUBBER RSI-H100 DUE TO OIL LEAKAGE.	03/29/2011	KW100584482
2	FDW-H236	CORRECT BY INSTALLING JAM NUT.	03/24/2011	KW100773136
2	SAFETY INJECTION PUMP 1A	REPAIRED LINEAR INDICATIONS ON SAFETY INJECTION PUMP 1A INTERIOR CASING CLADDING.	03/24/2011	KW100276680
3	SW-1A1	REPLACED 12 VALVE FLANGE STUDS ON 14" VALVE SW-1A1.	11/06/2009	KW100452502
3	SW-1A2	INSTALLED REPLACEMENT VALVE SW-1A2 AND 12 VALVE FLANGE REPLACEMENT STUDS ON 14" VALVE SW-1A2.	11/20/2009	KW100452503

ATTACHMENT 7

2011 INSERVICE INSPECTION SUMMARY REPORT

2008 AND 2009 INSERVICE SUMMARY REPORTS ADDITIONAL "FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY" (5 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 (Name)
N490 Highway 42, Kewaunee Wisconsin 54216-9511 (Address)

Date : May 9, 2008

Sheet : 1 of 2

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

Unit : No. 1

Work Order Number : KW07-004148

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 : 23 Class 2 Containment Spray 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)
ICS-H9	Lake Engineering Co.	1371	NA	NA	2007	Installed	No

7. Description of Work : Install replacement Class 2 Containment Spray System 6" Piping Hydraulic Snubber ICS-H9 due to maintenance activity.

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

Other ☐ Pressure NA psi Test Temp NA °F

9. Remarks: Not Applicable
Applicable Manufacturer's Data Reports to be attached

FORM NIS-2 (Back)

Date : May 9, 2008

Name of Component : ICS-H9

Work Order Number : KW07-004148

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 E. Burkes Inservice Inspection Program Owner Date July 29, 2010

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 HARTFORD CONNECTICUT have inspected the components described in this Owner's Report during the period 27 OCT 06 to 9 MAY 08, 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 Meinert Commissions NB 11622 ABIN, WI 10013

(Inspector's Signature) National Board, State, Province, and Endorsements

Date 29 JULY 2010

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 : May 9, 2008

Sheet : 1 of 2

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

Unit : No. 1

Work Order Number : KW07-004148

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)
RTD-H11	Lake Engineering Co.	1378	NA	NA	2007	Installed	No

7. Description of Work : Install replacement Class 1 Reactor Coolant System 2" Piping Hydraulic Snubber RTD-H11 due to maintenance activity.

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

Other ☐ Pressure NA psi Test Temp NA °F

9. Remarks: Not Applicable
Applicable Manufacturer's Data Reports to be attached

FORM NIS-2 (Back)

Sheet 2 of 2

Date : May 9, 2008

Name of Component : RTD-H11

Work Order Number : KW07-004148

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. Bufas Inservice Inspection Program Owner Date July 29, 2010

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 HARTFORD CONNECTICUT have inspected the components described in this Owner's Report during the period 27 OCT 06 to 9 MAY 08, 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 Niemeyer Commissions NB11622AGIN, WI100131

(Inspector's Signature) National Board, State, Province, and Endorsements

Date 29 JULY 2010

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 22, 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 : KW100277696

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)
RTD-H2	Lake Engineering Co.	36988	NA	NA	2009	Installed	No

7. Description of Work : Install replacement Class 1 reactor Coolant System 2" Piping Hydraulic Snubber RTD-H2 due to maintenance activity.

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

Other ☐ Pressure NA psi Test Temp NA °F

9. Remarks: Not Applicable
Applicable Manufacturer's Data Reports to be attached

FORM NIS-2 (Back)

Sheet 2 of 2

Date : October 22, 2009

Name of Component : RTD-H2

Work Order Number : KW100277696

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. Burkes Inservice Inspection Program Owner Date July 29, 2010

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 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 W Niemeyer Commissions NB11622 ABIN, WI 100131

(Inspector's Signature) National Board, State, Province, and Endorsements

Date 29 JULY 2010

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 22, 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 : KW100277696

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 : 35 Class 1 Chemical and Volume Control 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)
RCVC-H36	Lake Engineering Co.	36991	NA	NA	2009	Installed	No

7. Description of Work : Install replacement Class 1 Chemical and Volume Control System 2" Piping Hydraulic Snubber RCVC-H36 due to maintenance activity.

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

Other ☐ Pressure NA psi Test Temp NA °F

9. Remarks: Not Applicable
Applicable Manufacturer's Data Reports to be attached

FORM NIS-2 (Back)
Sheet 2 of 2

Date : October 22, 2009

Name of Component : RCVC-H36

Work Order Number : KW100277696

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. Bukea Inservice Inspection Program Owner Date July 29, 2010
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 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.

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James W Clemency Commissions NB11622 ABIN, WI100131
(Inspector's Signature) National Board, State, Province, and Endorsements

Date 29 JULY 2010

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 22, 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 : KW100277696

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)
RSI-H98	Lake Engineering Co.	36987	NA	NA	2009	Installed	No

7. Description of Work : Install replacement Class 2 Safety Injection System 2" Piping Hydraulic Snubber RSI-H98 due to maintenance activity.

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

Other ☐ Pressure NA psi Test Temp NA °F

9. Remarks: Not Applicable
Applicable Manufacturer's Data Reports to be attached

FORM NIS-2 (Back)
Sheet 2 of 2

Date : October 22, 2009

Name of Component : RSI-H98

Work Order Number : KW100277696

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. Burke Inservice Inspection Program Owner Date July 29, 2010
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 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.

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Janelle Kinnery Commissions NB11622 ABIN, WI 100131
(Inspector's Signature) National Board, State, Province, and Endorsements

Date 29 JULY 2010