



# Exelon Generation®

10 CFR 50.55a

NMP2L 2630  
July 25, 2016

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

Nine Mile Point Nuclear Station, Unit 2  
Renewed Facility Operating License No. NPF-69  
Docket No. 50-410

Subject: Third Inservice Inspection Interval, Second Inservice Inspection Period  
2016 Owner's Activity Report for RFO-15 Inservice Examinations

Pursuant to 10 CFR 50.55a, Nine Mile Point Nuclear Station, LLC (NMPNS) hereby submits the attached Third Inservice Inspection Interval, Third Inservice Inspection Period, 2016 Owner's Activity Report for RFO-15 Inservice Examinations, for Nine Mile Point Unit 2 (NMP2). The report is contained in Attachment 1 to this letter, and summarizes the results of examinations performed during the second refueling outage (RFO-15) of the Third Inservice Inspection Period of the Third Ten-Year Inspection Interval (April 5, 2015 through June 15, 2018).

This activity report meets the requirements of the American Society of Mechanical Engineers (ASME), Code Case N-532-4, "Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, Section XI, Division 1," as approved for use by Regulatory Guide 1.147, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1."

There are no regulatory commitments contained in this letter.

Should you have any questions regarding the information in this submittal, please contact Dennis Moore, Regulatory Assurance Manager, at (315) 349-5219.

Sincerely,

Alexander D. Sterio  
Engineering Director, Nine Mile Point Nuclear Station  
Exelon Generation Company, LLC

ADS/KJK

Attachment: Third Inservice Inspection Interval, Third Inservice Inspection Period  
2016 Owner's Activity Report for RFO-15 Inservice Examinations

AD47  
NRR

NMP2 Owner's Activity Report for RFO-15

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cc: Regional Administrator, Region I, USNRC  
Project Manager, USNRC  
Resident Inspector, USNRC

**Attachment**

Third Inservice Inspection Interval, Third Inservice Inspection Period  
2016 Owner's Activity Report for RFO-15 Inservice Examinations



**THIRD INSERVICE INSPECTION INTERVAL  
THIRD INSERVICE INSPECTION PERIOD**

**2016 OWNER'S ACTIVITY REPORT  
FOR  
RFO15 INSERVICE EXAMINATIONS**

Prepared For

**Nine Mile Point Nuclear Station Unit 2**

**P.O. Box 63, Lake Road**

**Lycoming, New York 13093**


Commercial Service Date: April 5, 1988  
NRC Docket Number: 50-410  
Document Number: NMP2-OAR-003-016  
Revision Number: 00 Date: July 15, 2016

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**RECORD OF REVISION**

<b>REVISION No.</b>	<b>DATE</b>	<b>AFFECTED PAGES</b>	<b>REASON FOR REVISION</b>
00		Entire Document	Initial issue of Owner's Activity Report for ASME Section XI Inservice Inspection, Containment Inservice Examinations, and Pressure Tests and Alternate Risk-Informed Inspection in accordance with the requirements of ASME Code Case N-532-4.

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## ABSTRACT

ASME Section XI Code Case N-532-4 requires submission of the Owner's Activity Report to the regulatory and enforcement authorities having jurisdiction at the plant site within 90 calendar days of the completion of each refueling outage.

This Owner's Activity Report summarizes the results of the Nine Mile Point Nuclear Station (NMPNS), Unit 2, American Society of Mechanical Engineers (ASME) Section XI In-service Inspection, Risk-Informed Inspection, Containment In-service Examinations, and Pressure Tests performed since the last report dated May 31, 2014 through Refueling Outage Fifteen (RFO15) ending May 5, 2016. RFO15 is the first of two outages scheduled during the Third In-service Inspection Period that started on April 5, 2015 and is scheduled to end on June 15, 2018.

The attached Table 1 and 2 include flaws and conditions (those meeting the requirements of Code Case N-532-4) identified since the last Owner's Activity Report following Refueling Outage RFO-14.

As an alternate to the requirements of the ASME, Boiler and Pressure Vessel Code (B&PVC), Section XI, Article IWA-6000, NMPNS is implementing ASME Code Case N-532-4, Alternative Requirements to Repair and Replacement Documentation Requirements and In-service Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, Section XI, Division 1". Regulatory Guide 1.147, Revision 15, approved ASME Code Case N-532-4 for use. This Report complies with the requirements of Code Case N-532-4 and the conditions identified in RG 1.147.


## OWNER'S ACTIVITY REPORTS - FORM OAR-1

Owner Activity Report Form OAR-1 was prepared and certified upon completion of the Nine Mile Point Unit 2, 2016 refueling outage (RFO15) examination activity in accordance with the following NMPNS inspection plans and schedules:

- NMP2-ISI-003, Third Ten-Year In-service Inspection Plan and Implementing Schedule, (includes the Alternate Risk-Informed Inspection Program)
- NMP2-CISI-002, Second Containment In-service Inspection Plan and Implementing Schedule.
- NMP2-PT-008, Inservice Pressure Testing Program Plan

In addition to the Owner's Activity Report, Form OAR-1, the following Tables are also included:

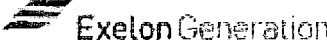
- a. **Items with Flaws or Relevant Conditions that Require Evaluation for Continued Service**, Table 1, provides a listing of item(s) with flaws or relevant conditions that required evaluation to determine acceptability for continued service, whether or not the flaw or relevant condition was discovered during a scheduled examination or test, and provides such information as Examination Category, Examination Item Number, Item Description, Flaw Characterization (as required by IWA-3300).

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- b. **Abstract of Repairs, Replacements or Corrective Measures Required for Continued Service,** Table 2, identifies those items containing flaws or relevant conditions that exceeded Division 1 acceptance criteria. This information is required even if the discovery of the flaw or relevant condition that necessitated the repair/replacement activity did not result from an examination or test required by Division 1. If the acceptance criterion for a particular item is not specified in Division 1, the provisions of IWA-3100(b) shall be used to determine which repair/replacement activities are required to be included in the abstract.

In accordance with ASME Section XI, IWB-2412(a), IWC-2412, IWD-2412 IWE-2412(a), and IWF-2410(b) and with the exception of the examinations that may be deferred until the end of the inspection interval as specified in Table IWB-2500-1, IWC-2500-1, IWD-2500-1, IWF-2500-1 and IWE-2500-1, including those examinations which NMPNS has requested and received approval in the form of proposed alternatives in accordance with 10CFR50.55a(a)(3), the required examinations in each examination category have been completed for the First In-service Inspection Period in accordance with Tables IWB-2412-1, IWC-2412-1, IWD-2412-1, IWE-2412-1, and IWF-2410-2.



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**FORM OAR-1**

**OWNER'S ACTIVITY REPORT**

As required by the provisions of the ASME Code Case N-532-4

Report Number: NMP2-OAR-003-016

Plant Nine Mile Point Nuclear Station, P. O. Box 63, Lycoming, New York 13093  
(Name and Address of Plant)

Plant Unit 2 Commercial Service Date April 5, 1988 Refueling Outage Number RFO15

Current Inspection Interval 3rd Interval for ISI & PT, 2<sup>nd</sup> Interval for CISI April 5, 2008 to June 15, 2018  
(1st, 2nd, 3rd, 4th, Other)

Current Inspection Period Third In-service Inspection Period April 5, 2015 to June 15, 2018  
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plans 2004 Edition, No Addenda

Date and Revision of Inspection Plans NMP2-ISI-003, Revision 04, May 30, 2016 (ISI), NMP2-CISI-002, Revision 03, May 30, 2016 (Containment ISI), NMP2-PT-008 Revision 06, July 2, 2014 (Pressure Test)

Edition and Addenda of ASME Section XI applicable to Repair/Replacement activities, if different than the Inspection Plan  
N/A (same Code Edition/Addenda)  
(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 RFO15 conform to the requirements of Section XI.  
(refueling outage number)

Signed Ronald P. Felony Date 7-18-16  
(NMPNS ISI Program 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 PA and employed by The Hartford Steam Boiler Inspection and Insurance Company 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.

Dean D. Lynch Commissions NB9428 ANIS PA2384  
Inspector's Signature National Board, State, Province, and Endorsements  
Date 7-18-16



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TABLE 1


**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE**  
As required by the provisions of the ASME Code Case N-532-4

EXAMINATION CATEGORY	ITEM NUMBER	ITEM DESCRIPTION	EVALUATION DESCRIPTION
B-P	B15.10	Pressure Retaining Components (Bolted Mechanical Connections)	<p>The ASME Class 1 end of refueling outage vessel leakage test identified leakage exceeding the level that requires a Design Engineering Evaluation in accordance with station procedures. Station procedures require Design Engineering Evaluation for <u>any</u> leakage originating from a bolted connection.</p> <p>Condition Report AR-02664007 documents an undesirable condition associated with 88 drops per minute leakage from the ASME Class 1 valve 2RCS*V175B bolted flange connection. A Design Engineering Evaluation concludes that the identified leakage is acceptable as-is for continued service. Work Order C92721531 has been generated to address this condition.</p> <p>Condition Report AR-02664000 documents an undesirable condition associated with 60 drops per minute leakage from the ASME Class 1 valve 2RCS*V177A bolted flange connection. A Design Engineering Evaluation concludes that the identified leakage is acceptable as-is for continued service. Valve was tightened and leakage was reduced to 3.75 dpm. Work Order C92721531 has been generated to address this condition.</p> <p>Condition Report AR-02664062 documents an undesirable condition associated with leakage from Control Rod Drive bolted flange connections. The as-found leakage ranged from 20 drops per minute to 360 drops per minute.</p> <p>The as-left leakage was reduced significantly following scrambling of control rod drives.</p> <p>A Design Engineering Evaluation concludes that the identified leakage is acceptable as-is for continued service.</p>

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EXAMINATION CATEGORY	ITEM NUMBER	ITEM DESCRIPTION	EVALUATION DESCRIPTION
F-A	F1.10A	Sway Strut	Condition Report IR 02656786 documents a Lisega strut 2ICS-PSST263A1 which had a loose jam nut. Work Order C93397358 has been generated to address this condition.
D-A	D1.20	Integrally Welded Attachment	Condition Report AR-02658592 documents an undesirable condition associated with heavy pitting of 2SWQ-21-21-FW304. A Design Engineering Evaluation concludes that the identified pitting is acceptable as-is for continued service.



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**END OF INSERVICE INSPECTION  
OWNER'S ACTIVITY REPORT  
FOR  
REFUELING OUTAGE FIFTEEN (RFO15)**