

Exelon Generation®

10 CFR 50.55a

NMP1L 3284
May 23, 2019

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

Nine Mile Point Nuclear Station, Unit 1
Renewed Facility Operating License No. DPR-63
Docket No. 50-220

Subject: Fourth Inservice Inspection Interval, Third Inservice Inspection Period
2019 Owner's Activity Report for RFO-25 Inservice Examinations

Pursuant to 10 CFR 50.55a, Nine Mile Point Nuclear Station, LLC (NMPNS) hereby submits the attached Fourth Inservice Inspection Interval, Third Inservice Inspection Period, 2019 Owner's Activity Report for RFO-25 Inservice Examinations, for Nine Mile Point Unit 1 (NMP1). The report is contained in Attachment 1 to this letter.

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, Site Regulatory Assurance Manager, at (315) 349-5219.

Sincerely,

Robert C. Bugelhol
Engineering Director, Nine Mile Point Nuclear Station
Exelon Generation Company, LLC

RCB/KJK

Attachment: Fourth Inservice Inspection Interval, Third Inservice Inspection Period
2019 Owner's Activity Report for RFO-25 Inservice Examinations

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

A047
NRR

Attachment

Fourth Inservice Inspection Interval, Third Inservice Inspection Period
2019 Owner's Activity Report for RFO-25 Inservice Examinations



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

**2019 OWNER'S ACTIVITY REPORT
FOR
RFO-25 INSERVICE EXAMINATIONS**

Prepared For

**Nine Mile Point Nuclear Station Unit 1
P.O. Box 63, Lake Road
Lycoming, New York 13093**

Commercial Service Date: December 26, 1969
NRC Docket Number: 50-220
Document Number: NMP1-OAR-004-025
Revision Number: 00 Date: April 29, 2019

Prepared by: Ronald P. Fabiny 4/29/19
Ronald P. Fabiny - Site Materials Program Engineer

Approved by: Sarah Spath 4/29/19
Sarah Spath - Fleet Inservice Inspection Engineer

Approved by: Michael Faivus 4-29-2019
Michael Faivus - Program Engineering Manager


	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-004-25
	FOURTH INSERVICE INSPECTION INTERVAL 2019 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS	Rev. 00 Date: April 29, 2019 Page 2 of 9

TABLE OF CONTENTS

Table of Contents 2


Record of Revision3

Abstract.....4


Form OAR-1 Owner's Activity Report for ASME Section XI Inspection & Testing Plans 6

Table 1 Items with Flaws or Relevant Conditions that Required Evaluation for Continued Service..... 7

Table 2 Abstract of Repairs, Replacements, or Corrective Measures Required for Continued Service..... 8

	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-004-25
	FOURTH INSERVICE INSPECTION INTERVAL 2019 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS	Rev. 00 Date: April 29, 2019 Page 3 of 9

RECORD OF REVISION			
REVISION No.	DATE	AFFECTED PAGES	REASON FOR REVISION
00	APRIL 29, 2019	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.

	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-004-25
	FOURTH INSERVICE INSPECTION INTERVAL 2019 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS	Rev. 00 Date: April 29, 2019 Page 4 of 9

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 1, American Society of Mechanical Engineers (ASME) Section XI In-service Inspection, Risk-Informed Inspection, Containment In-service Examinations, and Pressure Tests performed during Refueling Outage Twenty-Five (RFO-25), from March 18, 2019 through April 15, 2019, and the Second outage of the Third In-service Inspection Period that started on August 23, 2016 and is scheduled to end on August 22, 2019.

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-24.

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 17, 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's Activity Reports Form OAR-1's were prepared and certified upon completion of the Nine Mile Point Unit 1, 2019 refueling outage (RFO-25) examination activity in accordance with the following NMPNS inspection plans and schedules:

- NMP1-ISI-004, Fourth Ten-Year In-service Inspection Plan and Implementing Schedule, (includes the Alternate Risk-Informed Inspection Program
- NMP1-CISI-002, Second Containment In-service Inspection Plan and Implementing Schedule.
- NMP1-PT-003, 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).

	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-004-25
	FOURTH INSERVICE INSPECTION INTERVAL 2019 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS	Rev. 00 Date: April 29, 2019 Page 5 of 9

- 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 shall be provided with the information and format of Table 2. 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(a), IWD-2412(a), 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 relief request, the required examinations in each examination category have been completed for the First and Second In-service Inspection Period in accordance with Tables IWB-2412-1, IWC-2412-1, IWD-2412-1, IWE-2412-1, and IWF-2410-2.

	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-004-25
	FOURTH INSERVICE INSPECTION INTERVAL 2019 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS	Rev. 00 Date: April 29, 2019 Page 6 of 9

**FORM OAR-1
OWNER'S ACTIVITY REPORT**

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

Report Number: NMP1-OAR-004-025

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

Plant Unit 1 Commercial Service Date December 26, 1969 Refueling Outage Number RFO-25

Current Inspection Interval 4th Interval for ISI & PT, 2nd Interval for CISI August 23, 2009 to August 22, 2019
(1st, 2nd, 3rd, 4th, Other)

Current Inspection Period Third In-service Inspection Period August 23, 2016 to August 22, 2019
(1st, 2nd, 3rd)

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

Date and Revision of Inspection Plans NMP1-ISI-004, Revision 03, June 30, 2016 (ISI), NMP1-CISI-002, Revision 02, August 1, 2016 (Containment ISI), NMP1-PT-003 Revision 05, January 8, 2015 (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)

Code Cases used: N-716, N-702, N-648-1, & N-642-4
(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 RFO-25 conform to the requirements of Section XI.
(refueling outage number)

Signed M. Faivus / Mitch A. Faivus Date 4-29-2019
(Programs Manager)

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 NY and employed by The Hartford Steam Boiler Inspection & Insurance Co. of Hartford, 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.

[Signature] Commissions NY 5570 NB 16158 A, N, I, R
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/1/19



	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-004-25
	FOURTH INSERVICE INSPECTION INTERVAL 2019 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS	Rev. 00 Date: April 29, 2019 Page 7 of 9

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-N-2	B13.30	Reactor Vessel Interior Attachment Weld – Beyond Beltline Region (Steam Dryer Support Bracket)	<p>Visual inspection during the spring of 2019 (N1R25) has confirmed that no change in visual indications has occurred during the past cycle. Previously submitted flaw evaluations remain applicable through the next scheduled UT and visual examination schedule for 2021 (N1R26). Reinspection during 2021 will be the third successive period reinspection as required by IWB-2420(b).</p> <p>Repeat inspections have been performed on the steam dryer support brackets since initial flaw detection in 2011. Subsequent UT and visual inspections in 2013, 2015 and 2017 have confirmed that indications remain relatively shallow, are located entirely within the bracket base metal and run parallel or away from the vessel attachment weld. As such, observed flaws are not considered a threat to propagate into and/or through the vessel attachment weld toward the vessel.</p> <p>Prior to the N1R23 re-inspections, NMP revised the Engineering Evaluation using the N1R22 UT/EVT-1 data to allow two-cycles of operation. The revised supporting Engineering Evaluation concluded that the indications are acceptable for continued service for at least two additional operating cycles. In accordance with IWB-3144(b) the Engineering Evaluation of the examination results was submitted as an attachment to the 2015 Owner's Activity Report for RFO-23 Inservice Examinations (ML15191A385). The repeat UT/EVT-1 examinations in successive outages confirms that the crack growth depth and length changes are well below the conservative growth rates used in the 2-cycle flaw evaluation. All flaws remain acceptable under the previously submitted flaw evaluation.</p>
E-A	E1.12	Torus Inside Under Water and Downcomers Under Water	<p>Corrosion identified on the torus and downcomers under water. ECP-19-000143 provided a qualitative evaluation on the acceptability of the identified torus/downcomer corrosion. The above referenced ECP evaluation has determined that the torus and associated vent system is capable of performing its design function.</p>

 Exelon Generation.	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-004-25
	FOURTH INSERVICE INSPECTION INTERVAL 2019 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS	Rev. 00 Date: April 29, 2019 Page 9 of 9

**END OF INSERVICE INSPECTION
OWNER'S ACTIVITY REPORT
FOR
REFUELING OUTAGE TWENTY-FIVE (RFO-25)**