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10 CFR 50.55a

NMP1L3406
June 28, 2021

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: Fifth Inservice Inspection Interval, First Inservice Inspection Period
2021 Owner's Activity Report for RFO-26 Inservice Examinations

Pursuant to 10 CFR 50.55a, Nine Mile Point Nuclear Station, LLC (NMPNS) hereby submits the attached Fifth Inservice Inspection Interval, First Inservice Inspection Period, 2021 Owner's Activity Report for RFO-26 Inservice Examinations, for Nine Mile Point Unit 1 (NMP1).

This activity report meets the requirements of the American Society of Mechanical Engineers (ASME), Code Case N-532-5, "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 Brandon Shultz, Mgr. Site Regulatory Assurance at (315) 349-7012.

Sincerely,

Rocks, Joshua F Digitally signed by Rocks, Joshua F
Date: 2021.06.30 08:07:04 -04'00'

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

ADS/BKS

Attachment: Fifth Inservice Inspection Interval, First Inservice Inspection Period
2021 Owner's Activity Report for RFO-26 Inservice Examinations

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

A047
NRR

Attachment

Fifth Inservice Inspection Interval, First Inservice Inspection Period
2021 Owner's Activity Report for RFO-26 Inservice Examinations




**FIFTH INSERVICE INSPECTION INTERVAL
FIRST INSERVICE INSPECTION PERIOD**


**2021 OWNER'S ACTIVITY REPORT
FOR
RFO-26 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 01, 1969
NRC Docket Number: 50-220
Document Number: NMP1-OAR-005-026
Revision Number: 00 Date: June 21st, 2021

Prepared by:  6/21/21
Bryan Zhang - Site Materials Program Engineer

Approved by:  6/21/2021
Mark Ferlisi - GSE TrueNorth (Owner's Designee)

Approved by: Faivus, Michael R
Digitally signed by Faivus, Michael R
Date: 2021.06.23 13:25:09 -04'00'
Michael Faivus - Program Engineering Manager


	Nine Mile Point Nuclear Station Unit 1	NMP1-OAR-005-26
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Nine Mile Point Nuclear Station Unit 1

NMP1-OAR-005-26

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RECORD OF REVISION

REVISION No.	DATE	AFFECTED PAGES	REASON FOR REVISION
00	June 17 th , 2021	Entire Document	Initial issue of Owner's Activity Report for ASME Section XI Inservice Inspection, Containment Inservice Examinations, Pressure Tests and Alternate Risk-Informed Inspection in accordance with the requirements of ASME Code Case N-532-5.

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ABSTRACT

ASME Section XI Code Case N-532-5 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-Six (RFO-26), from March 22, 2021 through April 11, 2021, and the first outage of the 1st In-service Inspection Period that started on August 23, 2019 and is currently scheduled to end on August 22, 2022.

The attached Table 1 and 2 include flaws and conditions (those meeting the requirements of Code Case N-532-5) identified since the last Owner's Activity Report following Refueling Outage RFO-25.

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-532-5, 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 18, approved ASME Code Case N-532-5 for use. This Report complies with the requirements of Code Case N-532-5 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, 2021 refueling outage (RFO-26) examination activity in accordance with the following NMPNS inspection plans and schedules:

- ER-NM-330-1001, Fifth Ten-Year In-service Inspection Plan and Implementing Schedule, [includes the Alternate Risk-Informed Inspection Program, Pressure Testing (PT) Program, and Containment (CISI) Inservice Inspection Program]


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).

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.

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In accordance with ASME Section XI, IWB-2411, IWC-2411, IWD-2411, IWE-2411, and IWF-2410 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 scheduled in accordance with Tables IWB-2411-1, IWC-2411-1, IWD-2411-1, IWE-2411-1, and IWF-2410-1.

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

As required by the provisions of the ASME Code Case N-532-5

Report Number: NMP1-OAR-005-26

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 01, 1969 Refueling Outage Number RFO-26

Current Inspection Interval 5th Interval for ISI & PT, 3rd Interval for CISI August 23, 2019 to August 22, 2029
(1st, 2nd, 3rd, 4th, Other)

Current Inspection Period First In-service Inspection Period August 23, 2019 to August 22, 2022
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plans 2013 Edition, No Addenda

Date and Revision of Inspection Plans ER-NM-330-1001, Revision 00, August 23, 2019 (ISI)

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-532-5
(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-26 conform to the requirements of Section XI.
(refueling outage number)

Signed Zhang, Bryan Digitally signed by Zhang, Bryan
Date: 2021.06.23 16:07:45 -04'00' Date 6/23/2021
(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.

Powers, Brandon Digitally signed by Powers, Brandon
Date: 2021.06.23 13:13:03 -04'00' Commissions NY 5570 NB 16158 A, N. I. R
Inspector's Signature National Board, State, Province, and Endorsements
Date Brandon


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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-532-5

EXAMINATION CATEGORY	ITEM NUMBER	ITEM DESCRIPTION	EVALUATION DESCRIPTION
R-A	R1.20	Reactor Vessel Nozzle N1C Safe End to Elbow	<p>While performing an Encoded Automated Phased Array on weld 32-WD-085 Nozzle to safe end weld on N1C, two axial indications were recorded with measurable through-wall dimensions. Indication #1 is acceptable, however indication #2 is unacceptable per table ASME Section XI 2013 Edition Table-3514-1. These flaws are ID connected (inner diameter surface); These flaws were seen in previously encoded data and were characterized as ID geometry. Since the current technique is far superior (data quality), we can now ascertain a through-wall dimension to generate an a/l (aspect ratio) per the code. The flaws are constrained to the 316NG (Nuclear Grade-Low Carbon) material which is considered SCC (stress corrosion cracking) resistant material. These flaws are not service induced. This condition was documented in the site Corrective Action Program (IR#4412326).</p>
R-A	R1.20	Reactor Vessel Nozzle N1D Nozzle Safe End to Elbow	<p>While performing an Encoded Automated Phased Array on weld 32-WD-125 Nozzle to safe end weld on N1D, thirteen (13) axial indications were recorded with measurable through-wall dimensions. The results were four (4) acceptable indications and nine (9) unacceptable indications.</p> <p>Indications #1, #6, #8, and #11 are acceptable, however indications #2, #3, #4, #5, #7, #9, #10, #12, and #13 are unacceptable per table ASME Section XI 2013 Edition Table-3514-1. All flaws are ID connected (inner diameter surface). These flaws were seen in previously encoded data and were characterized as ID geometry. Since the current technique is far superior (data quality), we can now ascertain a through-wall dimension to generate an a/l (aspect ratio) per the code. The flaws are constrained to the 316NG (Nuclear Grade-Low Carbon) material which is considered SCC (stress corrosion cracking) resistant material. These flaws are not service induced. This condition was documented in the site Corrective Action Program (IR# 04412423).</p>



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TABLE 2
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE
As required by the provisions of the ASME Code Case N-532-5

CODE CLASS	ITEM DESCRIPTION	DESCRIPTION OF WORK	DATE COMPLETED	REPAIR/REPLACEMENT PLAN NUMBER
None.				

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**END OF INSERVICE INSPECTION
OWNER'S ACTIVITY REPORT
FOR
REFUELING OUTAGE TWENTY-SIX (RFO-26)**