

# CENG<sup>SM</sup>

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NINE MILE POINT  
NUCLEAR STATION

August 9, 2013

U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

**ATTENTION:** Document Control Desk

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

Fourth Inservice Inspection Interval, Second Inservice Inspection Period, 2013  
Owner's Activity Report for RFO-22 Inservice Examinations

Pursuant to 10 CFR 50.55a, Nine Mile Point Nuclear Station, LLC (NMPNS) is submitting Attachment 1, Fourth Inservice Inspection Interval, Second Inservice Inspection Period, 2013 Owner's Activity Report for RFO-22 Inservice Examinations, for Nine Mile Point Unit 1 (NMP1). This report summarizes the results of examinations performed during the last refueling outage (RFO-22) of the Second Inservice Inspection Period of the Fourth Ten-Year Inspection Interval (August 23, 2009 through August 22, 2019).

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."

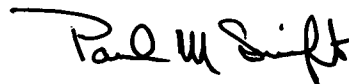
Attachment 2, Nine Mile Point Unit 1 Steam Dryer Support Bracket Flaw Evaluation, delineates the flaw evaluation performed for the indications identified in the NMP1 steam dryer support brackets during RFO-22. Attachment 2 was prepared by Structural Integrity Associates, Inc.

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Should you have any questions regarding the information in this submittal, please contact Theresa Darling, acting Director - Licensing, at (315) 349-5219.

Sincerely,



Paul M. Swift  
Manager Engineering Services

PMS/BTV

Attachments: (1) Fourth Inservice Inspection Interval, Second Inservice Inspection Period, 2013  
Owner's Activity Report for RFO-22 Inservice Examinations  
(2) Nine Mile Point Unit 1 Steam Dryer Support Bracket Flaw Evaluation

cc: NRC Regional Administrator, Region I  
NRC Project Manager  
NRC Senior Resident Inspector

**ATTACHMENT (1)**

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**FOURTH INSERVICE INSPECTION INTERVAL  
SECOND INSERVICE INSPECTION PERIOD  
2013 OWNER'S ACTIVITY REPORT  
FOR  
RFO-22 INSERVICE EXAMINATIONS**

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**Constellation  
Energy Group**

Nine Mile Point  
Nuclear Station

**FOURTH INSERVICE INSPECTION INTERVAL  
SECOND INSERVICE INSPECTION PERIOD**

**2013 OWNER'S ACTIVITY REPORT  
FOR  
RFO-22 INSERVICE EXAMINATIONS**

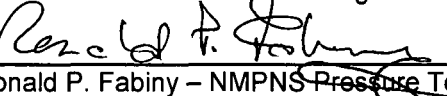
Prepared For

**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-004-022  
Revision Number: 00 Date: May 20, 2013


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 <b>Constellation Energy Group</b> Nine Mile Point Nuclear Station	<b>Nine Mile Point Nuclear Station Unit 1</b>	<b>CNG-NMP1-OAR-004-22</b>
	<b>FOURTH INSERVICE INSPECTION INTERVAL          2013 OWNER'S ACTIVITY REPORT FOR          INSERVICE EXAMINATIONS</b>	<b>Rev. 00</b> <b>Date: MAY 20, 2013</b> <b>Page 2 of 9</b>

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**Constellation  
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Nine Mile Point Nuclear Station Unit 1

**FOURTH INSERVICE INSPECTION  
INTERVAL  
2013 OWNER'S ACTIVITY REPORT  
FOR  
INSERVICE EXAMINATIONS**

CNG-NMP1-OAR-004-22


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Date: MAY 20, 2013

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## RECORD OF REVISION

REVISION No.	DATE	AFFECTED PAGES	REASON FOR REVISION
00	MAY 20,2013	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 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-Two (RFO-22), from April 15, 2013 through May 15, 2013, and the First outage of the Second In-service Inspection Period that started on August 23, 2012 and is scheduled to end on August 22, 2016.

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-21.

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 16, 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, 2013 refueling outage (RFO-22) examination activity in accordance with the following NMPNS inspection plans and schedules:

- CNG-NMP1-ISI-004, Fourth Ten-Year In-service Inspection Plan and Implementing Schedule, (includes the Alternate Risk-Informed Inspection Program
- CNG-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).

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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 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, 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 relief request, 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: NMP1-OAR-004-022

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-22

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

Current Inspection Period Second In-service Inspection Period August 23, 2012 to August 22, 2016  
 (1st, 2nd, 3rd)

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

Date and Revision of Inspection Plans CNG-NMP1-ISI-004, Revision 01, December 31, 2010 (ISI), CNG-NMP1-CISI-002, Revision 01, December 31, 2010 (Containment ISI), NMP1-PT-003 Revision 04, March 15, 2011 (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 RFO-22 conform to the requirements of Section XI.  
 (refueling outage number)

Signed [Signature] Date 7/22/13  
 (General Supervisor – Engineering Programs)


**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 NEW YORK and employed by HSBC 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 NB 13519 A, N1 NY5364  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7/22/13


 <b>Constellation Energy Group</b> Nine Mile Point Nuclear Station	<b>Nine Mile Point Nuclear Station Unit 1</b>	<b>CNG-NMP1-OAR-004-22</b>
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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
F-A	F1.20B	Seismic Restraint	<p>Condition Report CR-2013-003241 documents that during Inservice Inspection of seismic restraint 81-SC-46, it was identified that clearances are not as identified on as-built drawing B81-SC-46, SH 2 rev 1. Drawing shows 1/8" typical clearance between pipe and clamshell plates of restraint. No gap exists on top half of pipe; 1/32" gap exists on bottom half of pipe.</p> <p>Based on a review of the thermal movements in the pipe stress calculation, S14-81P03 the thermal displacements are insignificant. As such, there is no impact to pipe stress due to the less than 1/8" "normal" gaps at the support 81-SC-46. There is also no impact on the ability of 81-SC-46 to perform its seismic restraint function.</p> <p>This condition does not represent a non-conforming condition. Gaps referenced on drawing B81-SC-46, SH 2 are shown as "nominal". As such minor variations in the gap measurement are expected. Based on the review of the pipe stress calculation the as-found measurements are acceptable and have no impact on the piping analysis.</p>
B-N-2	B13.30	Reactor Vessel Interior Attachment Weld – Beyond Beltline Region (Steam Dryer Support Bracket)	<p>Condition Reports CR-2011-002755, CR-2011-002866 and CR-2013-003335 document the identification of a relevant indication exceeding the acceptance criteria of IWB-3520.2. CENG re-inspected the four steam dryer support brackets during the Spring 2013 refueling outage using EVT-1 and a qualified UT tool and procedure. All four brackets contained reportable indications using UT. Three of the four brackets contained reportable indications using EVT-1.</p> <p>The UT and EVT-1 inspections performed during RFO22 reported flaws larger than reported RFO21 and identified new indications that were not reported in RFO21.</p> <p>The supporting Engineering Evaluation concluded that the indications are acceptable for continued service for at least one additional operating cycle. In accordance with IWB-3144(b) the engineering evaluation of the exam results is submitted as an attachment to this Owner's Activity Report.</p>



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**END OF INSERVICE INSPECTION  
OWNER'S ACTIVITY REPORT  
FOR  
REFUELING OUTAGE TWENTY-TWO (RFO-22)**