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NINE MILE POINT NUCLEAR STATION

August 16, 2012

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

ATTENTION: Document Control Desk

SUBJECT: Nine Mile Point Nuclear Station
Unit No. 2; Docket No. 50-410

2012 Owner's Activity Report for Refueling Outage 13 Inservice Examinations

Pursuant to 10 CFR 50.55a, Nine Mile Point Nuclear Station, LLC (NMPNS) is submitting the enclosed 2012 Owner's Activity Report for Nine Mile Point Unit 2 (NMP2), which summarizes the results of examinations performed during the NMP2 spring 2012 refueling outage (RFO13) for the Second Inservice Inspection Period of the Third Ten-Year Inservice Inspection Interval (April 5, 2008 to April 4, 2018).

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

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

Very truly yours,

Paul M. Swift
Manager Engineering Services

A047
MLR

Document Control Desk

August 16, 2012

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PMS/DEV

Enclosure: **Nine Mile Point Unit 2, Third Inservice Inspection Interval, Second Inservice Inspection Period, 2012 Owner's Activity Report for RFO13 Inservice Examinations**

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

ENCLOSURE

**NINE MILE POINT UNIT 2
THIRD INSERVICE INSPECTION INTERVAL
SECOND INSERVICE INSPECTION PERIOD
2012 OWNER'S ACTIVITY REPORT FOR
RFO13 INSERVICE EXAMINATIONS**



**Constellation
Energy Group**

Nine Mile Point
Nuclear Station

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

**2012 OWNER'S ACTIVITY REPORT
FOR
RFO13 INSERVICE EXAMINATIONS**

Prepared For

**Nine Mile Point Nuclear Station Unit 2
P.O. Box 63, Lake Road
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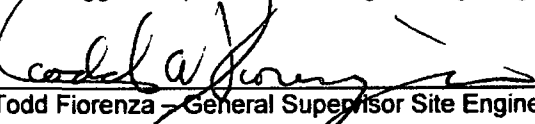
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RECORD OF REVISION			
REVISION No.	DATE	AFFECTED PAGES	REASON FOR REVISION
00	July 15, 2012	Entire Document	Initial issue of Owner's Activity Report for ASME Section XI Inservice Inspection, Containment Inservice Examinations, and Pressure Tests and 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 4, 2010 through Refueling Outage Thirteen (RFO13) ending June 9, 2012. RFO13 is the first of two outages scheduled during the Second In-service Inspection Period that started on April 5, 2011 and is scheduled to end on April 4, 2015.

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 RFO12.

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, 2012 refueling outage (RFO13) examination activity in accordance with the following NMPNS inspection plans and schedules:

- CNG-NMP2-ISI-003, Third Ten-Year In-service Inspection Plan and Implementing Schedule, (includes the Alternate Risk-Informed Inspection Program)
- CNG-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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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	F1.10A	Sway Strut (Pipe Support)	<p>Condition Report CR-2012-002984 documents the identification of a relevant condition exceeding the acceptance criteria of IWF-3410. While performing an ISI examination in the NMP2 drywell it was noted that ASME Class 1 sway strut pipe support 2RHS-PSST348A1 showed evidence of misalignment and binding (strut rod end in contact with pipe clamp).</p> <p>A Design Engineering evaluation concluded that the condition of axial misalignment is not acceptable for continued service and as such required correction prior to return to service.</p> <p>The initial additional examinations (a.k.a. scope expansion), required of ASME Section XI IWF-2430(a), identified one of four additional supports as having the condition of misalignment and binding. This additional condition is documented in Condition Report CR-2012-003568 and resulted in the need for further additional examinations as required by ASME Section XI IWF-2430(b). All nine additional supports were found to be free of the misalignment condition.</p> <p>Both supports identified as having the out of alignment condition were corrected via maintenance, were re-inspected (pre-service examination), and have been scheduled for Code required successive examinations.</p>
F-A	F1.30A	Sway Strut (Pipe Support)	<p>Condition Report CR-2012-003402 documents the identification of a relevant condition exceeding the acceptance criteria of IWF-3410. While performing an ISI examination in the NMP2 Service Water Screen Well it was noted that ASME Class 3 sway strut pipe support 2SWQ-PSST540B3 showed evidence of misalignment and binding (strut rod end in contact with pipe clamp).</p> <p>A Design Engineering evaluation concluded that the condition of axial misalignment is not acceptable for continued service and as such required correction prior to return to service.</p> <p>The initial additional examinations (a.k.a. scope expansion), required of ASME Section XI IWF-2430(a), found all five additional supports to be free of the misalignment condition. As such, no further additional examinations were required.</p> <p>2SWQ-PSST540B3 was corrected via maintenance, was re-inspected (pre-service examination), and has been scheduled for Code required successive examinations.</p>


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TABLE 1 (continued)

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	F1.10A	Sway Strut (Pipe Support)	<p>Condition Report CR-2012-003568 documents the identification of a condition unacceptable for continued service in accordance with IWF-3410. While performing an ISI examination in the NMP2 drywell it was noted that ASME Class 1 sway strut pipe support 2RHS-PSST346A1 showed evidence of misalignment and binding (strut rod end in contact with pipe clamp).</p> <p>This condition was identified during the additional examinations (scope expansion) required of Condition Report CR-2012-002984 discussed above.</p> <p>A Design Engineering evaluation concluded that the condition of axial misalignment is not acceptable for continued service and as such required correction prior to return to service.</p> <p>As indicated above, the out of alignment condition was corrected via maintenance, the support was re-inspected (pre-service examination), and has been scheduled for Code required successive examinations.</p>
F-A	F1.10A	Sway Strut (Pipe Support)	<p>Condition Report CR-2012-003648 documents the identification of a condition unacceptable for continued service in accordance with IWF-3410. While performing an ISI examination in the NMP2 drywell it was noted that ASME Class 1 sway strut pipe support 2RHS-PSST987A1 showed evidence of misalignment.</p> <p>An Engineering evaluation concluded that the identified condition, though undesirable, was in fact acceptable for continued service in accordance with ASME Section XI IWF-3122.3(a). Since the condition was acceptable for continued service no further additional Code examinations were required. The support was restored to original design configuration in accordance with IWF-3122.3(b).</p> <p>The subject support was re-inspected and found acceptable following corrective maintenance.</p>


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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	F1.10C	Variable Spring (Pipe Support)	<p>Condition Report CR-2012-004124 documents the identification of a condition unacceptable for continued service in accordance with IWF-3410. While performing an ISI examination in the NMP2 Secondary Containment it was noted that ASME Class 1 variable spring pipe support 2WCS-PSSH698A1 setting exceeded allowable deviation.</p> <p>An Engineering evaluation concluded that the identified condition, though undesirable, was in fact acceptable for continued service in accordance with ASME Section XI IWF-3122.3(a). Since the condition was acceptable for continued service no further additional Code examinations were required. The support was restored to original design configuration in accordance with IWF-3122.3(b).</p> <p>The subject support was re-inspected and found acceptable following corrective measures.</p>
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 CR-2012-005096 documents an undesirable condition associated with 60 drops per minute leakage from the ASME Class 1 valve 2RCS*HYV17B body-to-bonnet bolted flange connection. A Design Engineering Evaluation concludes that the identified leakage is acceptable as-is for continued service. Work Order C91907821 has been generated to address this condition.</p> <p>Condition Reports CR-2012-005094 and CR-2012-005113 document undesirable conditions associated with leakage from Control Rod Drive bolted flange connections. The as-found leakage ranged from 2 drops per minute to 108 drops per minute.</p> <p>The as-left leakage was reduced significantly following scrambling of control rod drives. Furthermore, during the final 900 psi drywell closeout inspection Under-vessel leakage had fallen to 1 drop every 2 - 3 minutes and no leakage was observed from the 2RCS*HYV17B bonnet as captured in CR-2012-005613.</p> <p>A Design Engineering Evaluation concludes that the identified leakage is acceptable as-is for continued service.</p>



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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	F1.30A	Sway Strut and Restraint (Pipe Supports)	<p>Condition Report CR-2012-003085 documents the identification of an unacceptable condition requiring engineering evaluation for continued service. While performing Structural Maintenance Rule Walk-Down of Service Water piping located in the NMP2 Service Water tunnel it was noted that ASME Class 3 sway strut pipe supports 2SWP-PSST1425A3 and 2SWP-PSST1426A3 are deteriorated having heavy surface corrosion. Work Order C91856316 has been initiated to address this condition.</p> <p>A Design Engineering evaluation concluded that the identified condition, though undesirable, is not a nonconformance and as such is acceptable for continued service in accordance with ASME Section XI IWF-3122.3(a). Since the condition was acceptable for continued service no further additional Code examinations were required. The evaluation recommends performing maintenance to restore the support to original design configuration.</p> <p>Condition Report CR-2012-002953 documents a similar condition on additional safety-related Service Water pipe supports located in the Service Water pipe tunnel. Service Water supports 2SWP-PSR777A3, 2SWP-PSST776A3 2SWP-PSR775A3, 2SWP-PSR774A3, 2SWP-PSR732A3 and 2SWP-PSR733A3 were observed to have heavy corrosion and structural steel metal loss of up to 20% of the original thickness. The Design Engineering evaluation associated with this condition concludes that the support conditions remain functional but do not meet the current pipe support design requirements therefore the identified condition is a nonconformance. Maintenance is currently planned and scheduled to perform additional NDE (thickness readings) to verify condition of support members and clean and coat support steel. The supports identified within CR-2012-002953 are safety-related but exempt from ASME Section XI examination requirements. Work Order C91855634 has been initiated to address this condition.</p>

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**END OF INSERVICE INSPECTION
OWNER'S ACTIVITY REPORT
FOR
REFUELING OUTAGE THIRTEEN (RFO13)**