



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 3, 2010

Mr. Sam Belcher  
Vice President Nine Mile Point  
Nine Mile Point Nuclear Station, LLC  
P.O. Box 63  
Lycoming, NY 13093

SUBJECT: ANNUAL ASSESSMENT LETTER – NINE MILE POINT NUCLEAR STATION  
(REPORTS 05000220/2010001 AND 05000410/2010001)

Dear Mr. Belcher:

On February 12, 2010, the NRC staff completed its performance review of Nine Mile Point Nuclear Station (NMPNS). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only—Security Information" will include the security cornerstone review and resultant inspection plan.

Overall, NMPNS Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter at Nine Mile Point Unit 1 was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green).

Plant performance for the most recent quarter at Nine Mile Point Unit 2 was within the Regulatory Response Column of the NRC's Action Matrix, based on one finding having low to moderate safety significance (White). The White finding was a result of our supplemental inspection of the Mitigating Systems Performance Index (MSPI), Cooling Water Systems Performance Indicator (PI), which crossed the White significance threshold in the 4th quarter 2008. The PI returned to the Green level in the 4<sup>th</sup> quarter 2009. The White PI was due to a combination of high unavailability for service water pump maintenance activities and reliability challenges following introduction of foreign material into the service water pump suction during November 2008.

On October 16, 2009, we completed the supplemental inspection pursuant to Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," and the inspection report (ML093280672)<sup>1</sup> was issued on November 24, 2009. The inspection resulted in a parallel White inspection finding based on weaknesses in the NMPNS root cause evaluation. Specifically, the NRC identified procedural adequacy and adherence casual factors that led to reliability challenges with the pumps.

<sup>1</sup>Designation in parenthesis refers to an ADAMS accession number. Documents referenced in this letter are publicly available using the accession number in ADAMS.

As a result of the parallel White finding, the NMPNS Unit 2 will remain in the Regulatory Response Column of the Action Matrix until an additional supplemental inspection has been successfully completed. Therefore, we plan to conduct an additional supplemental inspection using Inspection Procedure 95001, when your staff notifies us of your readiness for this inspection. This inspection is conducted to verify that Constellation has taken actions to address the procedural adequacy and adherence issues and why these issues were not previously identified by Constellation. In 2010, we also plan to conduct the reactor oversight process baseline inspections at Units 1 and 2.

The enclosed inspection plan details the inspections, less those related to security, scheduled through June 30, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Glenn Dentel of my staff at 610-337-5233, with any questions you may have regarding this letter or the inspection plan.

Sincerely,



David C. Lew, Director  
Division of Reactor Projects  
Region I

Docket Nos. 50-220, 50-410  
License Nos. DPR-63, DPR-59

Enclosure: Nine Mile Point Inspection/Activity Plan

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/RA/

David C. Lew, Director  
Division of Reactor Projects  
Region I

Docket Nos. 50-220, 50-410  
License Nos. DPR-63, DPR-59

Distribution w/encl: see attached page

SUNSI Review Complete: JRH (Reviewer's Initials)

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NAME	NPerry/NP		GDentel/GTD		DLew/DCL
DATE	02/24/2010		02/23/2010		03/03/2010

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Nine Mile Point  
 Inspection / Activity Plan  
 01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>TI-177</b>	<b>- MANAGING GAS ACCUMULATION IN ECSS</b>	3
1,2	02/01/2010 02/05/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
		<b>TI-180</b>	<b>- PROCEDURES &amp; PROCESSES- MANAGING FATIGUE</b>	1
1,2	03/22/2010 03/24/2010	IP 2515/180	Inspection of Procedures and Processes for Managing Fatigue	
		<b>7111108G</b>	<b>- U2 INSERVICE INSPECTION</b>	1
2	04/05/2010 04/09/2010	IP 7111108G	Inservice Inspection Activities - BWR	
2	04/21/2010 04/23/2010	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>71124</b>	<b>- HP</b>	1
2	04/19/2010 04/23/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	04/19/2010 04/23/2010	IP 71124.02	Occupational ALARA Planning and Controls	
2	04/19/2010 04/23/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
		<b>7112407</b>	<b>- REMP</b>	1
1,2	05/17/2010 05/21/2010	IP 71124.07	Public Radiation Safety	
		<b>EP PROGR</b>	<b>- EP PROGRAM INSPECTION</b>	1
1,2	07/12/2010 07/16/2010	IP 7111402	Radiological Environmental Monitoring Program	
1,2	07/12/2010 07/16/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1,2	07/12/2010 07/16/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	07/12/2010 07/16/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	07/12/2010 07/16/2010	IP 71151-EP01	Drill/Exercise Performance	
1,2	07/12/2010 07/16/2010	IP 71151-EP02	ERO Drill Participation	
1,2	07/12/2010 07/16/2010	IP 71151-EP03	Alert & Notification System	
		<b>11/08EXM</b>	<b>- U1 OPERATOR LICENSING INITIAL EXAMS</b>	5
1	10/11/2010 10/15/2010	U01797	FY11-NINE MILE POINT U1 INITIAL OPERATOR LICENSING EXAM	
		<b>11/15EXM</b>	<b>- U2 INITIAL OPERATOR LICENSING EXAM</b>	5
2	10/11/2010 10/15/2010	U01790	FY11 - NINE MILE POINT U2 INITIAL OPERATOR LICENSING EXAM	
		<b>11/08EXM</b>	<b>- U1 OPERATOR LICENSING INITIAL EXAMS</b>	5
1	11/08/2010 11/12/2010	U01797	FY11-NINE MILE POINT U1 INITIAL OPERATOR LICENSING EXAM	
		<b>11/15EXM</b>	<b>- U2 INITIAL OPERATOR LICENSING EXAM</b>	5
2	11/15/2010 11/19/2010	U01790	FY11 - NINE MILE POINT U2 INITIAL OPERATOR LICENSING EXAM	
		<b>7111107T</b>	<b>- TRIENNIAL HEAT SINK</b>	1
1,2	07/19/2010 07/23/2010	IP 7111107T	Heat Sink Performance	
		<b>71124</b>	<b>- HP</b>	1
1,2	08/09/2010 08/13/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	08/09/2010 08/13/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	08/09/2010 08/13/2010	IP 71124.05	Radiation Monitoring Instrumentation	

This report does not include INPO and OUTAGE activities.  
 This report shows only on-site and announced inspection procedures.

Nine Mile Point

Inspection / Activity Plan

01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1, 2	11/15/2010	11/19/2010	7111111B - REQUAL INSP (NMP-1) WITH P/F RESULTS	Licensed Operator Requalification Program	3
			<b>MODS - PERMANENT PLANT MODIFICATIONS</b>		
1, 2	09/13/2010	09/17/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	3
1, 2	09/27/2010	10/01/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	1
			<b>71124 - HP</b>		
1, 2	11/15/2010	11/19/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/15/2010	11/19/2010	IP 71124.04	Occupational Dose Assessment	
1, 2	11/15/2010	11/19/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	11/15/2010	11/19/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>71124.08 - RADWASTE</b>		
1, 2	12/13/2010	12/17/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
			<b>71124 - RETS</b>		
1, 2	01/31/2011	02/04/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	1
			<b>7111108G - U1 INSERVICE INSPECTION</b>		
1	04/04/2011	04/08/2011	IP 7111108G	Inservice Inspection Activities - BWR	1
			<b>71124 - HP</b>		
1	04/04/2011	04/08/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/04/2011	04/08/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/04/2011	04/08/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			<b>EP EX - EP EXERCISE EVALUATION</b>		
1, 2	05/16/2011	05/31/2011	IP 7111401	Exercise Evaluation	
1, 2	05/23/2011	05/27/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	05/23/2011	05/27/2011	IP 71151-EP01	Drill/Exercise Performance	
1, 2	05/23/2011	05/27/2011	IP 71151-EP02	ERO Drill Participation	
1, 2	05/23/2011	05/27/2011	IP 71151-EP03	Alert & Notification System	
			<b>71124 - HP</b>		
1, 2	06/27/2011	07/01/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
1, 2	06/27/2011	07/01/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	06/27/2011	07/01/2011	IP 71124.05	Radiation Monitoring Instrumentation	

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