



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

September 1, 2011

Mr. David Heacock  
Sr. Vice President and Chief Nuclear Officer  
Dominion Resources  
500 Dominion Boulevard  
Glenn Allen, VA 23060-6711

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
MILLSTONE POWER STATION UNIT 2 AND UNIT 3  
(REPORT 05000336/2011006 AND 05000423/2011006)

Dear Mr. Heacock:

On August 10, 2011, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Millstone Power Station Unit 2 and Unit 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010 through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined the performance at Millstone Power Station Unit 2 during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix based on one finding having low to moderate safety significance (White) in the Initiating Events Cornerstone. The finding is associated with a performance deficiency involving the failure of Unit 2 Millstone personnel to carry out their assigned roles and responsibilities and inadequate reactivity management during main turbine control valve testing, which contributed to an unintended eight percent reactor power transient (88 percent to 96 percent) during the performance of quarterly main turbine control valve testing on February 12, 2011.

The NRC determined the performance at Millstone Power Station Unit 3 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (Green).

As a result of our review of Millstone Power Station performance, we plan to conduct a supplemental inspection for Unit 2 using Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," when your staff has notified us of your readiness for this inspection. This inspection procedure is conducted to provide assurance that the root cause and contributing causes of risk significant performance issues are understood,

the extent of condition is identified, and the corrective actions are sufficient to prevent recurrence.

The NRC evaluates cross-cutting themes to determine whether a substantive cross-cutting issue exists in a particular area and to encourage licensees to take appropriate actions before more significant performance issues emerge. Regarding Millstone Power Station, the staff identified that there were four Green findings for the current twelve month assessment period with a documented cross-cutting aspect in the Problem Identification and Resolution cross-cutting area, and that there was a common cross-cutting theme associated with these findings. The theme was associated with the timeliness of corrective actions, which was the most significant contributor to the four Green findings [P.1(d)].

In evaluating the scope of efforts and progress in addressing the cross-cutting theme, the NRC staff determined that Dominion has recognized the cross-cutting theme and has initiated action to develop an improvement plan. Therefore, the staff has determined that a substantive cross-cutting issue in the Problem Identification and Resolution cross-cutting area does not exist at this time. We will monitor your progress in the Problem Identification and Resolution cross-cutting area through the baseline inspection program, including a focused review of your proposed corrective action plan.

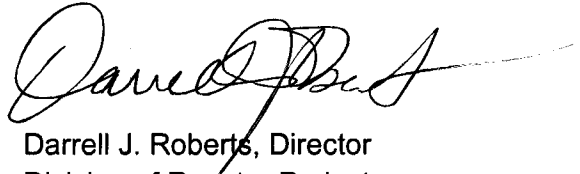
The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be 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).

Please feel free to contact Dr. Ronald R. Bellamy at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Darrell J. Roberts", with a long horizontal flourish extending to the right.

Darrell J. Roberts, Director  
Division of Reactor Projects

Docket Nos. 50-336, 50-423  
License No. DPR-65, NPF-49

Enclosure: Millstone Inspection/Activity Plan

cc w/encl: Distribution via ListServ

D. Heacock

Please feel free to contact Dr. Ronald R. Bellamy at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Darrell J. Roberts, Director  
Division of Reactor Projects

Docket Nos. 50-336, 50-423  
License No. DPR-65, NPF-49

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**ML112440012**

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DATE		08/31/11	08/31/11	08/31/11

## Millstone

## Inspection / Activity Plan

07/01/2011 - 12/31/2012

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>07/11EXM - OPERATOR LICENSING INITIAL EXAMS</b>		<b>3</b>
3	07/11/2011 07/20/2011	U01832	FY11- MILLSTONE 3, INITIAL OL EXAM	
		<b>3/14EXM - INITIAL OPERATOR LICENSING U2 EXAMS</b>		<b>3</b>
2	09/07/2011 09/09/2011	U01834	FY11- MILLSTONE 2, INITIAL OL EXAM	
2	10/03/2011 10/14/2011	U01834	FY11- MILLSTONE 2, INITIAL OL EXAM	
		<b>711111B - MS3 REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
2,3	08/29/2011 09/02/2011	IP 7111111B	Licensed Operator Requalification Program	
		<b>EP PROGR - EP PROGRAM INSPECTION</b>		<b>1</b>
2,3	08/01/2011 08/05/2011	IP 7111402	Alert and Notification System Testing	
2,3	08/01/2011 08/05/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2,3	08/01/2011 08/05/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
2,3	08/01/2011 08/05/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2,3	08/01/2011 08/05/2011	IP 71151-EP02	ERO Drill Participation	
2,3	08/01/2011 08/05/2011	IP 71151-EP03	Alert & Notification System	
2,3	08/01/2011 08/07/2011	IP 71151-EP01	Drill/Exercise Performance	
		<b>71124 - PUB RAD SAFETY - REMP</b>		<b>1</b>
2,3	08/22/2011 08/26/2011	IP 71124.07	Radiological Environmental Monitoring Program	
		<b>71124 - OCC RAD SAFETY</b>		<b>1</b>
2,3	10/17/2011 10/21/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	10/17/2011 10/21/2011	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	10/17/2011 10/21/2011	IP 71124.04	Occupational Dose Assessment	
		<b>7111108P - U3 INSERVICE INSPECTION</b>		<b>1</b>
3	10/17/2011 10/28/2011	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>TI-177 - MANAGING GAS ACCUMULATION IN ECCS</b>		<b>3</b>
2,3	01/30/2012 02/03/2012	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
		<b>71124 - OCC RAD SAFETY</b>		<b>1</b>
2,3	02/27/2012 03/02/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	02/27/2012 03/02/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	02/27/2012 03/02/2012	IP 71124.04	Occupational Dose Assessment	
		<b>7111121 - CDBI</b>		<b>6</b>
2,3	04/16/2012 04/20/2012	IP 7111121	Component Design Bases Inspection	
2,3	04/30/2012 05/04/2012	IP 7111121	Component Design Bases Inspection	
2,3	05/07/2012 05/11/2012	IP 7111121	Component Design Bases Inspection	

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

**Millstone**  
**Inspection / Activity Plan**  
**07/01/2011 - 12/31/2012**

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>EP EX - EP EXERCISE EVALUATION</b>		<b>5</b>
2, 3	08/05/2012	08/11/2012	IP 7111401	Exercise Evaluation	
2, 3	08/05/2012	08/11/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
			<b>71152B - PI&amp;R</b>		<b>4</b>
2, 3	07/16/2012	07/20/2012	IP 71152B	Problem Identification and Resolution	
2	07/30/2012	08/03/2012	IP 71152B	Problem Identification and Resolution	
			<b>711111B - MS2 ON-SITE REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
2, 3	09/17/2012	09/21/2012	IP 711111B	Licensed Operator Requalification Program	
			<b>71124 - RMS</b>		<b>1</b>
2, 3	08/13/2012	08/17/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>71124 - RW</b>		<b>1</b>
2, 3	09/10/2012	09/14/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>7111108P - UNIT 2 INSERVICE INSPECTION</b>		<b>1</b>
2	10/15/2012	10/26/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124 - OCC RAD SAFETY</b>		<b>1</b>
2, 3	11/04/2012	11/09/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	11/04/2012	11/09/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	11/04/2012	11/09/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	11/04/2012	11/09/2012	IP 71124.04	Occupational Dose Assessment	

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