



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I**
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

September 4, 2012

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

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
MILLSTONE POWER STATION UNIT 2 AND UNIT 3
(REPORT 05000336/2012006 and 05000423/2012006)**

Dear Mr. Heacock:

On August 14, 2012, 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, 2011, through June 30, 2012. 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 assessment reflects the integration of the Security Cornerstone into the Reactor Oversight Process (ROP) performance assessment program governed by Inspection Manual Chapter (IMC) 0305, "Operating Reactor Assessment Program."

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 ROP Action Matrix based on one finding assigned to the second quarter of 2011 having low to moderate safety significance (White) in the Initiating Events Cornerstone. This finding involved the failure of Unit 2 Millstone personnel to carry out their assigned roles and responsibilities and inadequate reactivity management during main turbine valve testing, which contributed to an unintended eight percent reactor power transient (88 percent to 96 percent) on February 12, 2011.

As a result of our review of Millstone Power Station Unit 2 performance, we plan to conduct a supplemental inspection using NRC Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," in September 2012. 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 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 (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at Unit 3.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan.

In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns," and TI-188, "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." 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. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

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 the NRC's Agencywide Document Access and Management 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 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 Nos.: DPR-65, NPF-49

Enclosure: Millstone Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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Enclosure: Millstone Inspection/Activity Plan

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NAME	TSetzer	RBellamy	DRoberts		
DATE	08/28/12	08/29/12	08/30/12		

OFFICIAL RECORD COPY

Millstone

Inspection / Activity Plan

07/01/2012 - 12/31/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			EP	- EP ANNUAL REPORT	
2, 3	06/30/2012	12/31/2012	IP 7111406	Drill Evaluation	4
			EP EX	- EP EXERCISE EVALUATION	
2, 3	06/21/2012	08/28/2012	IP 7111401	Exercise Evaluation	9
2, 3	08/19/2012	08/24/2012	IP 71151	Performance Indicator Verification	
			71152B	- PI&R	
2, 3	07/16/2012	07/20/2012	IP 71152B	Problem Identification and Resolution	4
2	07/30/2012	08/03/2012	IP 71152B	Problem Identification and Resolution	
			TI 182	- DEGRADATION OF UNDERGROUND PIPING	
2, 3	07/09/2012	07/13/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	1
			71124	- RADWASTE	
2, 3	07/23/2012	07/27/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
			711111B	- MS2 ON-SITE REQUAL INSP W/ P/F RESULTS	
2	09/17/2012	09/21/2012	IP 711111B	Licensed Operator Requalification Program	2
			71152	- PIR SAMPLE MILLSTONE COMMITMENT FOLLOWUP	
2, 3	07/30/2012	08/03/2012	IP 71152	Problem Identification and Resolution	1
			2515/188	- SEISMIC WALKDOWNS	
2, 3	08/06/2012	08/10/2012	IP 2515/188	Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns	3
			2515/187	- FLOODING WALKDOWNS	
2, 3	08/20/2012	08/24/2012	IP 2515/187	Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns	3
			95001	- 95001 SUPPLEMENTAL INSPECTION	
2	09/17/2012	09/21/2012	IP 95001	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	2
			71124	- OCC RADIATION SAFETY	
2, 3	10/15/2012	10/19/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
2, 3	10/15/2012	10/19/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	10/15/2012	10/19/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	10/15/2012	10/19/2012	IP 71124.04	Occupational Dose Assessment	
			711108P	- UNIT 2 INSERVICE INSPECTION	
2	10/15/2012	10/26/2012	IP 711108P	Inservice Inspection Activities - PWR	1
			71124	- OCC RAD SAFETY	
2, 3	12/10/2012	12/14/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
2, 3	12/10/2012	12/14/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	12/10/2012	12/14/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Millstone
Inspection / Activity Plan
07/01/2012 - 12/31/2013

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			71124 - OCC RAD SAFETY		1
2,3	12/10/2012	12/14/2012	IP 71124.04	Occupational Dose Assessment	
			71124 - HP INSTRUMENTATION		1
2,3	12/17/2012	12/21/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			EP - EP ANNUAL REPORT		4
2,3	07/01/2013	12/31/2013	IP 7111406	Drill Evaluation	
			MODS - PERMANENT PLANT MODIFICATIONS		7
2,3	01/28/2013	02/01/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
2,3	02/11/2013	02/15/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			EP PROGR - EP PROGRAM INSPECTION		1
2,3	02/11/2013	02/15/2013	IP 7111402	Alert and Notification System Testing	
2,3	02/11/2013	02/15/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2,3	02/11/2013	02/15/2013	IP 7111404	Emergency Action Level and Emergency Plan Changes	
2	02/11/2013	02/15/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			8/12 EXM - MILLSTONE 2 INITIAL EXAM		4
2	07/15/2013	07/19/2013	U01871	FY13-MILLSTONE 2 INITIAL OPERATOR LICENSING EXAM	
2	08/12/2013	08/16/2013	U01871	FY13-MILLSTONE 2 INITIAL OPERATOR LICENSING EXAM	
			7111108P - U3 INSERVICE INSPECTION		1
3	04/15/2013	04/26/2013	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - OCC RADIATION SAFETY		1
2,3	04/29/2013	05/03/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	04/29/2013	05/03/2013	IP 71124.02	Occupational ALARA Planning and Controls	
			71124 - REMP		1
2,3	05/20/2013	05/24/2013	IP 71124.07	Radiological Environmental Monitoring Program	
			7111111B - MILLSTONE 3 REQUAL INSP WITH P/F RESULTS		2
3	08/26/2013	08/30/2013	IP 7111111B	Licensed Operator Requalification Program	
			TRIFI - TRIENNIAL FIRE PROTECTION INSPECTION		7
2,3	07/22/2013	07/26/2013	IP 7111105T	Fire Protection [Triennial]	
2,3	08/05/2013	08/09/2013	IP 7111105T	Fire Protection [Triennial]	
			10/21EXM - MILLSTONE 3 INITIAL EXAM		4
3	11/04/2013	11/08/2013	U01874	FY14-MILLSTONE 3 INITIAL OPERATOR LICENSING EXAM	
3	12/02/2013	12/11/2013	U01874	FY14-MILLSTONE 3 INITIAL OPERATOR LICENSING EXAM	

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Millstone

Inspection / Activity Plan

07/01/2012 - 12/31/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
2, 3	07/29/2013	08/09/2013	7111107T IP 7111107T	- TRIENNIAL HEAT SINK Heat Sink Performance	1
2, 3	08/26/2013	08/30/2013	71124 IP 71124.06	- RADIO EFFLUENTS Radioactive Gaseous and Liquid Effluent Treatment	1
2, 3	08/26/2013	08/30/2013	IP 71151	Performance Indicator Verification	
2, 3	09/23/2013	09/27/2013	71124 IP 71124.02	- ALARA, IN-PLANT AIRBORNE AND DOSE ASSESS Occupational ALARA Planning and Controls	1
2, 3	09/23/2013	09/27/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	09/23/2013	09/27/2013	IP 71124.04	Occupational Dose Assessment	
2, 3	12/16/2013	12/20/2013	71124 IP 71124.01	- RAD HAZARD, IN-PLANT AIRBORNE, DOSE ASSE Radiological Hazard Assessment and Exposure Controls	1
2, 3	12/16/2013	12/20/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	12/16/2013	12/20/2013	IP 71124.04	Occupational Dose Assessment	
2, 3	12/16/2013	12/20/2013	IP 71151	Performance Indicator Verification	

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