



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION I  
2100 RENAISSANCE BLVD., SUITE 100  
KING OF PRUSSIA, PA 19406-2713

August 31, 2016

Mr. David Heacock  
President and Chief Nuclear Officer  
Dominion Resources  
5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR MILLSTONE POWER STATION,  
UNITS 2 AND 3 (REPORT 05000336/2016005 AND 05000423/2016005)**

Dear Mr. Heacock:

On August 9, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Millstone Power Station (Millstone), Units 2 and 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2015, through June 30, 2016. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Millstone Units 2 and 3 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Millstone Units 2 and 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 your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2018. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last half of the inspection period in 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.

As discussed in the End-of-Cycle letter dated March 2, 2016, the NRC will be following up on the following traditional enforcement actions to Millstone: EA-14-126, a Severity Level III Notice of Violation for impeding the regulatory process issued February 10, 2015; EA-13-188, an Alternative Dispute Resolution Confirmatory Order issued August 26, 2015; and a Severity Level IV violation for impeding the regulatory process issued on June 12, 2015. In accordance with Inspection Manual Chapter 0305, Sections 13.02.a and 13.02.b, the NRC will follow-up on

these violations through Inspection Procedure 92702, "Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders."

The NRC staff received the Millstone Final Compliance letter for Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The NRC staff issued the Millstone Safety Evaluation on July 1, 2016 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16099A171) and will confirm full implementation of the orders mentioned above by performing Temporary Instruction 2515-191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," (ADAMS Accession No. ML16104A158) the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct assessment reviews and communicate changes in the assessment of licensee performance quarterly, and will also issue end-of-cycle assessment letters.

In accordance with Title 10 of the *Code of Federal Regulations* (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 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 contact me at 610-337-5233 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Glenn T. Dentel, Chief  
Reactor Projects Branch 2  
Division of Reactor Projects

Docket Nos. 50-336 and 50-423  
License Nos. DPR-65 and NPF-49

Enclosure:  
Millstone Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-17 Mid-Cycle Review\Branch 2\Millstone\Millstone ROP-17 Mid-Cycle Letter.docx  
ADAMS Accession No. **ML16239A167**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	JAmbrosini via email	KWarner	GDentel		
DATE	8/23/16	8/23/16	8/24/16		

OFFICIAL RECORD COPY

Letter to Mr. David Heacock from Glenn T. Dentel dated August 31, 2016

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR MILLSTONE POWER STATION,  
UNITS 2 AND 3 (REPORT 05000336/2016005 AND 05000423/2016005)

Distribution w/encl: (via email)

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**Millstone**  
**Inspection / Activity Plan**  
**07/01/2016 - 06/30/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EXM8/8 - MILLSTONE 2 INITIAL EXAMINATION</b>		<b>4</b>
2	08/08/2016	08/12/2016	U01927	FY16-MS2 INITIAL OPERATOR LICENSING EXAM	
2	09/05/2016	09/09/2016	U01927	FY16-MS2 INITIAL OPERATOR LICENSING EXAM	
			<b>71152BI - PI&amp;R BIENNIAL</b>		<b>4</b>
2, 3	06/27/2016	07/01/2016	IP 71152B	Problem Identification and Resolution	
			<b>EP - EP EXERCISE EVALUATION</b>		<b>9</b>
2, 3	08/15/2016	08/19/2016	IP 7111401	Exercise Evaluation	
			<b>TRI FI - TRIENNIAL FIRE PROTECTION</b>		<b>7</b>
2, 3	07/25/2016	07/29/2016	IP 7111105T	Fire Protection [Triennial]	
2, 3	08/08/2016	08/12/2016	IP 7111105T	Fire Protection [Triennial]	
			<b>BI - RADIOLOGICAL SAFETY - EXT EXPOSURE</b>		<b>1</b>
2, 3	08/01/2016	08/05/2016	IP 71124.04	Occupational Dose Assessment	
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
2, 3	09/12/2016	09/16/2016	IP 7111107T	Heat Sink Performance	
			<b>7111111B - MS2 REQUAL INSP WITH P/F RESULTS</b>		<b>2</b>
2	10/31/2016	11/04/2016	IP 7111111B	Licensed Operator Requalification Program	
			<b>TI-191 - FUKUSHIMA LESSONS-LEARNED</b>		<b>1</b>
2, 3	10/24/2016	10/28/2016	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>7111117T - PERMANENT PLANT MODIFICATIONS</b>		<b>4</b>
2, 3	10/31/2016	11/04/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
2, 3	11/14/2016	11/18/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>92702 - CONFIRMATORY ORDER INSPECTION (U2 50.59)</b>		<b>1</b>
2	10/31/2016	11/18/2016	IP 92702	Followup On Corrective Actions For Violations And Deviations	
			<b>92702 - SL III FOLLOWUP INSPECTION (SLOD)</b>		<b>1</b>
2, 3	10/31/2016	11/18/2016	IP 92702	Followup On Corrective Actions For Violations And Deviations	
			<b>BI - RADIOLOGICAL SAFETY - RAD HAZ &amp; PIV</b>		<b>1</b>
2, 3	11/14/2016	11/18/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	11/14/2016	11/18/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2, 3	11/14/2016	11/18/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>71124 - RADIOLOGICAL SAFETY - ALARA</b>		<b>1</b>
2, 3	01/23/2017	01/27/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>71124.08 - RADWASTE</b>		<b>1</b>
2, 3	02/06/2017	02/10/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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

Enclosure

**Millstone**  
**Inspection / Activity Plan**  
**07/01/2016 - 06/30/2018**

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	Start	End			
			<b>71124 - RADIATION SAFETY - RAD HAZ PIV</b>		<b>1</b>
2, 3	04/10/2017	04/14/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	04/10/2017	04/14/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2, 3	04/10/2017	04/14/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>7111108P - U2 INSERVICE INSPECTION</b>		<b>1</b>
2	04/17/2017	04/28/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>7111111B - MS3 REQUAL INSP WITH P/F RESULTS</b>		<b>2</b>
3	08/14/2017	08/18/2017	IP 7111111B	Licensed Operator Requalification Program	
			<b>12/3EXM - MILLSTONE 3 INITIAL EXAM</b>		<b>4</b>
3	11/06/2017	11/10/2017	U01946	FY18-MS3 INITIAL OPERATOR LICENSING EXAM	
3	12/04/2017	12/08/2017	U01946	FY18-MS3 INITIAL OPERATOR LICENSING EXAM	
			<b>71124 - RADIATION SAFETY - TEAM INST RETS REMP</b>		<b>3</b>
2, 3	07/10/2017	07/14/2017	IP 71124.05	Radiation Monitoring Instrumentation	
2, 3	07/10/2017	07/14/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2, 3	07/10/2017	07/14/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>1</b>
2, 3	08/07/2017	08/11/2017	IP 7111402	Alert and Notification System Testing	
2, 3	08/07/2017	08/11/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	08/07/2017	08/11/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2, 3	08/07/2017	08/11/2017	IP 71151	Performance Indicator Verification	
			<b>7111108P - U3 INSERVICE INSPECTION</b>		<b>1</b>
3	10/16/2017	10/27/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>HP - ALARA</b>		<b>1</b>
2	01/29/2018	02/03/2018	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>EP - EXERCISE INSPECTION</b>		<b>4</b>
2, 3	03/19/2018	03/23/2018	IP 7111401	Exercise Evaluation	
			<b>HP - RAD HAZARD</b>		<b>1</b>
2, 3	03/12/2018	03/16/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>7111121 - CDBI</b>		<b>7</b>
2, 3	04/23/2018	04/27/2018	IP 7111121	Component Design Bases Inspection	
2, 3	05/07/2018	05/11/2018	IP 7111121	Component Design Bases Inspection	
2, 3	05/21/2018	05/25/2018	IP 7111121	Component Design Bases Inspection	

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**Inspection / Activity Plan**  
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	Start	End			
			<b>ISFSI</b>	<b>- ISFSI LOADING CAMPAIGN INSPECTION</b>	<b>3</b>
2, 3	05/28/2018	06/01/2018	IP 60855	Operation Of An ISFSI	
2, 3	05/28/2018	06/01/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>HP</b>	<b>- RAD AIRBORNE</b>	<b>1</b>
2, 3	06/04/2018	06/08/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	

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