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

March 3, 2010

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

SUBJECT: ANNUAL ASSESSMENT LETTER – MILLSTONE POWER STATION (REPORTS 05000336/2010001 and 05000423/2010001)

Dear Mr. Heacock:

On February 9, 2009, the NRC staff completed its performance review of the Millstone Power Station (Millstone). 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 Related Information" will include the security cornerstone review and resultant inspection plan.

Overall, Millstone Units 2 and 3 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, 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). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2011. In addition to baseline inspections, we plan to conduct a follow-up inspection for three severity level IV non-cited violations issued within the same traditional enforcement area during the assessment period. 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 10CFR2.390 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 me at 610-337-5306 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

FOR

Donald E. Jackson, Chief
Projects Branch 5
Division of Reactor Projects

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

Enclosure: Millstone Inspection/Activity Plan

ccw/encl. Distribution via ListServ

In accordance with 10CFR2.390 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 me at 610-337-5306 with any questions you may have regarding this letter or the inspection plan.

Sincerely,
/RA/
Donald E. Jackson, Chief
Projects Branch 5
Division of Reactor Projects

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

Enclosure: Millstone Inspection/Activity Plan

S. Collins, RA **(R1ORAMAIL RESOURCE)**
M. Dapas, DRA **(R1ORAMAIL RESOURCE)**
D. Lew, DRP **(R1DRPMAIL RESOURCE)**
J. Clifford, DRP **(R1DRPMAIL RESOURCE)**
D. Roberts, DRS **(R1DRSMail Resource)**
P. Wilson, DRS **(R1DRSMail Resource)**
D. Jackson, DRP
T. Setzer, DRP
J. Heinly, DRP
B. Sienel, DRP
S. Shaffer, DRP, SRI
B. Haagensen, DRP, RI
J. Krafty, DRP, RI
C. Kowalyshyn, OA
L. Trocine, RI OEDO
RidsNRRPM Millstone Resource
RidsNRRDorlLpl1-2 Resource
ROPreportsResource@nrc.gov
DRS Branch Chiefs (6)
L. Scholl, DRS
D. Silk, DRS
N. McNamara, RI
D. Tifft, RI
D. Screnci, PAO
N. Sheehan, PAO
R. Barkley, ORA
John Thompson, NRR
RidsNrrDirsIpabResource@nrc.gov
ROPReportsResource@nrc.gov
Region I Docket Room (with concurrences)

DOCUMENT NAME: S:\ROP-10 EOC Review\Branch 5\MS\2009 Annual Assessment Letter MS.doc

SUNSI Review Complete: TCS (Reviewer's Initials) ML100621420

After declaring this document "An Official Agency Record" it **will** be released to the Public.
To receive a copy of this document, indicate in the box:

"**C**" = Copy without attachment/enclosure "**E**" = Copy with attachment/enclosure "**N**" = No copy

OFFICE	RI/DRP		RI/DRP		RI/DRP	
NAME	T Setzer/TCS		D Jackson/ALB for		ABurritt	
DATE	3/2/10		3/2/10		3/2/10	

OFFICIAL RECORD COPY

Millstone 2
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
			71152	**- PI&R**	**4**
2	02/08/2010	02/12/2010	IP 71152B	Identification and Resolution of Problems	
2	02/22/2010	02/26/2010	IP 71152B	Identification and Resolution of Problems	
			71124	**- OCC RAD SAFETY**	**1**
2	02/08/2010	02/12/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	02/08/2010	02/12/2010	IP 71124.02	Occupational ALARA Planning and Controls	
2	02/08/2010	02/12/2010	IP 71124.04	Occupational Dose Assessment	
			TI-180	**- PROCEDURES & PROCESSES- MANAGING FATIGUE**	**1**
2	05/19/2010	05/19/2010	IP 2515/180	Inspection of Procedures and Processes for Managing Fatigue	
			7111107T	**- TRIENNIAL HEAT SINK**	**2**
2	06/21/2010	06/25/2010	IP 7111107T	Heat Sink Performance	
			TRI FIRE	**- TRIENNIAL FIRE PROTECTION INSPECTION**	**6**
2	07/19/2010	07/23/2010	IP 7111105T	Fire Protection [Triennial]	
2	08/02/2010	08/06/2010	IP 7111105T	Fire Protection [Triennial]	
			7111111B	**- REQUAL INSP (MS2) WITH P/F RESULTS**	**3**
2	09/13/2010	09/17/2010	IP 7111111B	Licensed Operator Requalification Program	
			71124	**- PUB RAD SAFETY - RADWASTE**	**1**
2	08/30/2010	09/03/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			EP EX	**- EP EXERCISE EVALUATION**	**4**
2	10/18/2010	10/22/2010	IP 7111401	Exercise Evaluation	
2	10/18/2010	10/22/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
2	10/18/2010	10/22/2010	IP 71151-EP01	Drill/Exercise Performance	
2	10/18/2010	10/22/2010	IP 71151-EP02	ERO Drill Participation	
2	10/18/2010	10/22/2010	IP 71151-EP03	Alert & Notification System	
			ISFSI	**- ANNUAL SAMPLE - ISFSI INSPECTION**	**1**
2	10/01/2010	12/31/2010	IP 60855	Operation Of An ISFSI	
			MODS	**- PERMANENT PLANT MODIFICATIONS**	**3**
2	11/01/2010	11/05/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
2	11/15/2010	11/19/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			71124	**- OCC RAD SAFETY - INSTRUMENTS & ISFSI**	**1**
2	11/15/2010	11/19/2010	IP 60855	Operation Of An ISFSI	
2	11/15/2010	11/19/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	11/15/2010	11/19/2010	IP 71151	Performance Indicator Verification	
			TI-177	**- MANAGING GAS ACCUMULATION IN ECCS**	**3**
2	03/07/2011	03/11/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	

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

Millstone 2
Inspection / Activity Plan
01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start	End	Inspection Activity	Title	No. of Staff on Site
			7111108P - U2 INSERVICE INSPECTION		1
2	04/11/2011	04/22/2011	IP 7111108P	Inservice Inspection Activities - PWR	

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

Millstone 3
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
			71152	**- PI&R**	**4**
3	02/08/2010	02/12/2010	IP 71152B	Identification and Resolution of Problems	
3	02/22/2010	02/26/2010	IP 71152B	Identification and Resolution of Problems	
			71124	**- OCC RAD SAFETY**	**1**
3	02/08/2010	02/12/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3	02/08/2010	02/12/2010	IP 71124.02	Occupational ALARA Planning and Controls	
3	02/08/2010	02/12/2010	IP 71124.04	Occupational Dose Assessment	
			71124	**- OCC RAD SAEFTY**	**1**
3	04/19/2010	04/23/2010	IP 71124.02	Occupational ALARA Planning and Controls	
			7111108P	**- U3 INSERVICE INSPECTION**	**1**
3	04/19/2010	04/30/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			TI-172	**- U3 TI 2515/172 DISSIMILAR METAL WELDS**	**1**
3	04/19/2010	04/30/2010	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
			TI-180	**- PROCEDURES & PROCESSES- MANAGING FATIGUE**	**1**
3	05/19/2010	05/19/2010	IP 2515/180	Inspection of Procedures and Processes for Managing Fatigue	
			7111107T	**- TRIENNIAL HEAT SINK**	**2**
3	06/21/2010	06/25/2010	IP 7111107T	Heat Sink Performance	
			TRI FIRE	**- TRIENNIAL FIRE PROTECTION INSPECTION**	**6**
3	07/19/2010	07/23/2010	IP 7111105T	Fire Protection [Triennial]	
3	08/02/2010	08/06/2010	IP 7111105T	Fire Protection [Triennial]	
			7111111B	**- REQUAL INSP (MS2) WITH P/F RESULTS**	**3**
3	09/13/2010	09/17/2010	IP 7111111B	Licensed Operator Requalification Program	
			71124	**- PUB RAD SAFETY - RADWASTE**	**1**
3	08/30/2010	09/03/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			EP EX	**- EP EXERCISE EVALUATION**	**4**
3	10/18/2010	10/22/2010	IP 7111401	Exercise Evaluation	
3	10/18/2010	10/22/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
3	10/18/2010	10/22/2010	IP 71151-EP01	Drill/Exercise Performance	
3	10/18/2010	10/22/2010	IP 71151-EP02	ERO Drill Participation	
3	10/18/2010	10/22/2010	IP 71151-EP03	Alert & Notification System	
			MODS	**- PERMANENT PLANT MODIFICATIONS**	**3**
3	11/01/2010	11/05/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
3	11/15/2010	11/19/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			71124	**- OCC RAD SAFETY - INSTRUMENTS & ISFSI**	**1**
3	11/15/2010	11/19/2010	IP 60855	Operation Of An ISFSI	

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

Millstone 3
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
			71124	**- OCC RAD SAFETY - INSTRUMENTS & ISFSI**	1
3	11/15/2010	11/19/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
3	11/15/2010	11/19/2010	IP 71151	Performance Indicator Verification	
			TI-177	**- MANAGING GAS ACCUMULATION IN ECCS**	3
3	03/07/2011	03/11/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	

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