



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

September 1, 2009

Mr. David A. Heacock
President and Chief Nuclear Officer
Dominion Resources
500 Dominion Blvd
Glen Allen, VA 23060-6711

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN
MILLSTONE POWER STATION**

Dear Mr. Heacock:

On August 11, 2009, the NRC staff completed its performance review of the Millstone Nuclear Generating Station Units 2 and 3. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2008 through June 30, 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.

Plant performance for the most recent quarter of 2009 at Millstone 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 December 31, 2010. 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 end-of-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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures as part of our biennial review of the ROP. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5200 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Ronald R. Bellamy, Ph.D., Chief
Division of Reactor Projects
Projects Branch 6

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

Enclosure: Millstone Inspection/ Activity Plan

cc w/encl:

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Millstone
Inspection / Activity Plan
07/01/2009 - 12/31/2010

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|---|---|----------------------|
| | Start | End | | | |
| | | | 9/14EXAM - U3 INITIAL OPERATOR LICENSING EXAMS | | 4 |
| 3 | 08/10/2009 | 08/14/2009 | U01758 | FY-09 MILLSTONE UNIT 3 INITIAL OPERTOR LICENSING EXAM | |
| 3 | 09/14/2009 | 09/25/2009 | U01758 | FY-09 MILLSTONE UNIT 3 INITIAL OPERTOR LICENSING EXAM | |
| | | | 711111B - BIENNIAL REQUAL INSP (U3) W/ P/F RESULTS | | 3 |
| 2,3 | 08/31/2009 | 09/04/2009 | IP 711111B | Licensed Operator Requalification Program | |
| | | | EP PROGR - EP PROGRAM INSPECTION | | 2 |
| 2,3 | 08/23/2009 | 08/29/2009 | IP 7111402 | Alert and Notification System Testing | |
| 2,3 | 08/23/2009 | 08/29/2009 | IP 7111403 | Emergency Response Organization Augmentation Testing | |
| 2,3 | 08/23/2009 | 08/29/2009 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 2,3 | 08/23/2009 | 08/29/2009 | IP 71151-EP01 | Drill/Exercise Performance | |
| 2,3 | 08/23/2009 | 08/29/2009 | IP 71151-EP02 | ERO Drill Participation | |
| 2,3 | 08/23/2009 | 08/29/2009 | IP 71151-EP03 | Alert & Notification System | |
| 2,3 | 08/23/2009 | 12/31/2009 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| | | | 71122.03 - PUB RAD SAFETY - REMP | | 1 |
| 2,3 | 08/31/2009 | 09/04/2009 | IP 2515/173 | Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative | |
| 2,3 | 08/31/2009 | 09/04/2009 | IP 7112203 | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program | |
| | | | 7111108P - U2 INSERVICE INSPECTION | | 1 |
| 2 | 10/13/2009 | 10/16/2009 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | TI-172 - U2 RCS DISSIMILAR METAL BUTT WELDS | | 1 |
| 2 | 10/13/2009 | 10/23/2009 | IP 2515/172 | Reactor Coolant System Dissimilar Metal Butt Welds | |
| | | | 7111108P - U2 INSERVICE INSPECTION | | 1 |
| 2 | 10/19/2009 | 10/23/2009 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | 71121 - OCC RAD SAFETY | | 1 |
| 2 | 11/02/2009 | 11/06/2009 | IP 7112102 | ALARA Planning and Controls | |
| | | | 71152 - PI&R | | 4 |
| 2,3 | 02/08/2010 | 02/12/2010 | IP 71152B | Identification and Resolution of Problems | |
| 2,3 | 02/22/2010 | 02/26/2010 | IP 71152B | Identification and Resolution of Problems | |
| | | | 71121 - OCC RAD SAFETY | | 1 |
| 2,3 | 02/08/2010 | 02/12/2010 | IP 7112101 | Access Control to Radiologically Significant Areas | |
| 2,3 | 02/08/2010 | 02/12/2010 | IP 7112102-7112102R | ALARA - Required | |
| | | | 7111108P - U3 INSERVICE INSPECTION | | 1 |
| 3 | 04/12/2010 | 04/23/2010 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | TI-172 - U3 TI 2515/172 DISSIMILAR METAL WELDS | | 1 |
| 3 | 04/12/2010 | 04/23/2010 | IP 2515/172 | Reactor Coolant System Dissimilar Metal Butt Welds | |

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

Millstone
Inspection / Activity Plan
07/01/2009 - 12/31/2010

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|--|---|----------------------|
| | Start | End | | | |
| | | | 71121 - OCC RAD SAEFTY | | 1 |
| 2, 3 | 04/19/2010 | 04/23/2010 | IP 7112102-7112102R | ALARA - Required | |
| | | | 7111107T - TRIENNIAL HEAT SINK | | 2 |
| 2, 3 | 06/14/2010 | 06/18/2010 | IP 7111107T | Heat Sink Performance | |
| | | | TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION | | 3 |
| 2, 3 | 07/19/2010 | 07/23/2010 | IP 7111105T | Fire Protection [Triennial] | |
| 2, 3 | 08/02/2010 | 08/06/2010 | IP 7111105T | Fire Protection [Triennial] | |
| | | | 7111111B - REQUAL INSP (MS2) WITH P/F RESULTS | | 3 |
| 2, 3 | 09/13/2010 | 09/17/2010 | IP 7111111B | Licensed Operator Requalification Program | |
| | | | 7112202 - PUB RAD SAFETY - RADWASTE | | 1 |
| 2, 3 | 08/30/2010 | 09/03/2010 | IP 7112202 | Radioactive Material Processing and Transportation | |
| | | | ISFSI - ANNUAL SAMPLE - ISFSI INSPECTION | | 1 |
| 2 | 10/01/2010 | 12/31/2010 | IP 60855 | Operation Of An ISFSI | |
| | | | EP EX - EP EXERCISE EVALUATION | | 4 |
| 2, 3 | 10/25/2010 | 10/29/2010 | IP 7111401 | Exercise Evaluation | |
| 2, 3 | 10/25/2010 | 10/29/2010 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 2, 3 | 10/25/2010 | 10/29/2010 | IP 71151 | Performance Indicator Verification | |
| | | | MODS - PERMANENT PLANT MODIFICATIONS | | 5 |
| 2, 3 | 11/01/2010 | 11/05/2010 | IP 7111117T | Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications | |
| 2, 3 | 11/15/2010 | 11/19/2010 | IP 7111117T | Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications | |
| | | | 7112103 - OCC RAD SAFETY - INSTRUMENTS | | 1 |
| 2, 3 | 11/15/2010 | 11/19/2010 | IP 7112103 | Radiation Monitoring Instrumentation and Protective Equipment | |

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