

Dominion Nuclear Connecticut, Inc.  
Millstone Power Station  
Rope Ferry Road, Waterford, CT 06385



AUG 03 2007

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Serial No.	07-0530
NSSL/RWM	R1
Docket No.	50-423
License No.	NPF-49

**DOMINION NUCLEAR CONNECTICUT, INC.**  
**MILLSTONE POWER STATION UNIT 3**  
**INSERVICE INSPECTION PROGRAM – OWNER’S ACTIVITY REPORT**

Dominion Nuclear Connecticut, Inc. (DNC), hereby submits the American Society of Mechanical Engineers (ASME), Section XI, Form OAR-1, Owner's Activity Report for Refueling Outage 11 for Millstone Power Station Unit 3. The enclosure is in accordance with the requirements of Code Case N-532.

If you have any questions or require additional information, please contact Mr. David W. Dodson at (860) 447-1791, extension 2346.

Very truly yours,

  
J. Alan Price  
Site Vice President - Millstone

Enclosure(s):

1. Millstone Power Station Unit 3, Owner's Activity Report for Refueling Outage 11

Commitments made in this letter: None.

A047

NRR

cc: U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

Mr. J. D. Hughey  
NRC Project Manager – Millstone Power Station  
U.S. Nuclear Regulatory Commission  
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Mr. R. I. Treadway  
NRC Senior Resident Inspector  
Millstone Power Station

Serial No. 07-0530  
Docket No. 50-423

**ENCLOSURE 1**

**INSERVICE INSPECTION PROGRAM – OWNER’S ACTIVITY REPORT**

**REFUELING OUTAGE 11**

**DOMINION NUCLEAR CONNECTICUT, INC. (DNC)  
MILLSTONE POWER STATION UNIT 3**

# MILLSTONE POWER STATION

## UNIT NO. 3

### OWNER'S ACTIVITY REPORT

#### REFUELING OUTAGE 11

Revision 0

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OAR-1 Report Number: MP-3, 3RO11

- Table 1: Abstract of Examinations and Tests
- Table 2: Items With Flaws or Relevant Conditions That Required Evaluation for Continued Service.
- Table 3: Abstract of Repairs, Replacements, or Corrective Measures Required for Continued Service

Prepared By:

Philip A. Zielu  
ISI Program Coordinator

Date:

7/26/07

Reviewed By:

Elizabeth York, NIACT  
Authorized Nuclear Inservice Inspector

Date:

07/28/2007

## FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number MP3- 3RO11

Owner Dominion Nuclear Connecticut, Rope Ferry Road, Waterford Connecticut 06385  
(Name and Address of Owner)

Plant Millstone Nuclear Power Station, Rope Ferry Road, Waterford Connecticut  
(Name and Address of Plant)

Unit Number 3 Commercial Service Date April 23, 1986 Refueling Outage Number 11  
(if applicable)

Current Inspection Interval 2nd  
(1st, 2nd, 3rd,)

Current Inspection Period 3rd  
(1st, 2nd, 3rd, 4th, other)

Edition and Addenda of Section XI Applicable to the Inspection Plan 1989 Edition, No Addenda  
Subsection IWE/IWL - 1998 Edition, No Addenda

Date and Revision of Inspection Plan January 15, 2005, Revision 01, Change 6.  
Subsection IWE/IWL - May 23, 2006, Revision 2

Edition and Addenda of Section XI Applicable to Repairs and replacements, if Different 1998 Edition, No Addenda

### CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations and corrective measures represented by this report conform to the requirements of Section XI.

Certificate of Authorization No. N/A (if applicable) Expiration Date N/A

Signed Rich A. Jidy - ISI Coordinator Date 7/26/07  
Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB CT of Hartford, Connecticut have inspected the items described in this Owner's Activity Report, during the period October 27, 2005 to May 19, 2007, and state to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations and corrective measures described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Elizabeth K. [Signature] Commissions AWI, ANI N/A 5894 CTIISF  
Inspector's Signature National Board, State, Province and Endorsements

Date 28 July 2007

**Table 1**  
**ABSTRACT OF EXAMINATIONS AND TESTS** (See Note 1)

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks (Note 8)
B-A	24	19	79	100	Note 2
B-B	3	1	33	100	
B-D	44	22	50	91	Item numbers B3.90 and B3.100 utilize Code Case N-521 which allows deferral to the end of the Interval.
B-E	2	0	0	0	See Note 2
B-F	4	0	0	100	See Note 3
B-G-1	221	92	42	100	
B-G-2	61	28	46	100	
B-H	9	0	0	100	Relief Request IR-2-4 granted to perform all (9) examinations in one period.
B-J	60	0	0	100	See Note 3
B-K-1	9	4	44	100	
B-L-1	N/A	N/A	N/A	N/A	There are no components under this Category at Millstone Unit 3.
B-L-2	0	0	0	0	Required only if disassembled during maintenance activity.
B-M-1	N/A	N/A	N/A	N/A	There are no components under this Category at Millstone Unit 3.
B-M-2	5	1	20	100	Required only if disassembled during maintenance activity.
B-N-1	3 (1/Period)	1	33	100	100% are examined each Inspection period.
B-N-2	7	7	100	100	See Note 2

Table 1  
ABSTRACT OF EXAMINATIONS AND TESTS (See Note 1)

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks (Note 8)
B-N-3	2	2	100	100	See Note 2
B-O	4	0	0	100	See Note 2
B-P	37	12	32	97	Required for examination each refueling outage. Number and percentage are based on the number of refueling outages anticipated during the Interval.
C-A	6	3	50	100	
C-B	13	3	23	85	See Note 6
C-C	39	16	41	97	
C-D	2	1	50	100	See Note 4
C-F-1	156	61	39	99	
C-F-2	37	12	32	95	
C-G	11	3	27	82	
C-H	86	23	27	90	See Note 6
D-A	30	8	27	90	See Note 6
D-B	123	42	34	91	See Note 6
D-C	4	0	0	75	See Note 6
E-A	105 (35/Period)	35	33	100	100% of the items are examined each Inspection Period. The Total Examinations Required reflects the total for all (3) Periods.
E-C	45 (22/ 2 <sup>nd</sup> Period) (23/ 3 <sup>rd</sup> Period)	23	51	100	See Note 7
L-A	34	0	0	100	See Note 5

Table 1  
ABSTRACT OF EXAMINATIONS AND TESTS (See Note 1)

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks (Note 8)
L-B	N/A	N/A	N/A	N/A	There are no components under this Category at Millstone Unit 3.
F-A	262	99	37	99	
R-A	91	35	38	93	See Note 9

Notes:

1. This report represents a summary of the Inservice Inspection activities performed at Dominion Nuclear Connecticut's Millstone Unit 3 power station during the Spring of 2007 refueling outage (RFO11). This is the second refueling outage of the third inspection period of the second inspection interval.
2. For this Examination Category, deferral of examinations to later in the interval is permissible, in accordance with ASME Section XI, IWB-2500-1
3. Examination Category B-F and B-J have been replaced with the implementation of the Risk Informed inspection program for Class 1 piping Examination Category R-A. The number of examinations listed under the Total Examinations Required for the Interval for these categories reflect the number of examinations completed meeting the percentage requirements for the first inspection period.
4. Percentage requirements in this category cannot be met for each period due to only 2 items in the category.
5. Examination frequency for this Category is once every five years.
6. This examination Category includes VT-2 (Pressure Test) inspection items required to be completed once each period.
7. This Category reflects locations identified during the 1<sup>st</sup> and 2<sup>nd</sup> periods that are required for examination during the 2<sup>nd</sup> and 3<sup>rd</sup> periods.
8. Relief requests shall be submitted for those examinations in which limitations exist such that at least 90% examination coverage could not be obtained.
9. Category increased by an additional (8) welds based on the Class 1 Risk Informed Program period review.



Table 2  
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT  
REQUIRED EVALUATION FOR CONTINUED SERVICE

Examination Category	Item Number	Component ID	Item Description	Flaw Characterization (IWA-3300)	Flaw or relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
B-P	B15.70	Valve 3SFC*V982	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RSS*V026	Valve body to bonnet bolting	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3SIL*AV8872A	Valve body to bonnet bolting	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3SIL*V006	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3SIL*V012	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3SIL*V017	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3SIL*V015	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3SIL*V987	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*AV8036D	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*AV8037A	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*AV8037B	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES

Table 2  
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT  
REQUIRED EVALUATION FOR CONTINUED SERVICE

Examination Category	Item Number	Component ID	Item Description	Flaw Characterization (IWA-3300)	Flaw or relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
B-P	B15.70	Valve 3RCS*AV8037C	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*AV8037D	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*MV8003A	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*MV8003C	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*MV8003D	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*LCV459	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RCS*V086	Flange bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3CHS*CV8152	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES
B-P	B15.70	Valve 3RHS*MV8701A	Valve bolted connection	Leakage at bolted connection. Evaluated using the criteria of Code Case N-566-1.	YES

Table 3  
ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
REQUIRED FOR CONTINUED SERVICE

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
2	Repair	Mainsteam piping Line Number 3MSS-008-22-2	Blend out unacceptable base metal indication found during surface examination of weld MSS-30-FW-6	Yes	05/08/07	M3-07-05800
3	Replacement	Service Water Line 3SWP-150-105-3	Replace portion of line	No	01/25/2006	M3-06-01083
3	Replacement	Service Water Line 3SWP-150-105-3	Replace portion of line	No	02/16/2006	M3-06-02088
3	Replacement	Heat Exchanger 3CCP*E1C	Weld repair channel head flange	No	03/15/2006	M3-06-02978
2	Replacement	Feedwater Line 3FWS-016-127-2	Replace portion of line	No	05/29/2007	M3-05-15316
2	Replacement	Feedwater Line 3FWS-016-124-2	Replace portion of line	No	05/29/2007	M3-05-09903
2	Replacement	Feedwater Line 3FWS-016-126-2	Replace portion of line	No	05/29/2007	M3-05-14115
3	Replacement	Service Water Line 3SWP-003-247-3	Replace portion of line	No	06/22/2006	M3-06-06588
3	Repair	Service Water line 3SWP-003-247-3	Repair Flange leak	No	05/29/2006	M3-06-06133

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
3	Replacement	Service Water Line 3SWP-150-106-3	Replace portion of line	No	08/05/2006	M3-06-08717
3	Replacement	Service Water Line 3SWP-003-86-3	Replace portion of line	No	07/18/2006	M3-06-07456
3	Replacement	Service Water Line 3SWP-003-324-3	Replace portion of line	No	04/20/2007	M3-06-06512
3	Replacement	Auxiliary Feedwater 3FWA*RO24A	Replace restricting orifice	No	10/19/2006	M3-06-11331
3	Replacement	Service Water Line 3SWP-150-71-3	Replace pipe piece	No	12/05/2006	M3-06-12770
3	Replacement	Service Water Line 3SWP-002-400-3	Replace portion of line	No	01/12/2007	M3-03-13265
3	Replacement	Service Water Line 3SWP-002-402-3	Replace portion of line at valve 3SWP*V697	No	02/21/2007	M3-07-00574
3	Replacement	Service Water Line 3SWP-150-71-3	Replace portion of line at valve 3SWP*V698	No	05/23/2007	M3-07-00573
1	Repair	Pressurizer surge nozzle to safe-end, dissimilar metal weld 03-X-5551-X-T	Machine and perform weld overlay per approved Relief Request IR-2-47	No	04/30/2007	M3-06-12833
1	Repair	Pressurizer safety "A" nozzle to safe-end, dissimilar metal weld 03-X-5644-A-T	Machine and perform weld overlay per approved Relief Request IR-2-47	No	04/30/2007	M3-06-12834
1	Repair	Pressurizer safety "B" nozzle to safe-end, dissimilar metal weld 03-X-5648-B-T	Machine and perform weld overlay per approved Relief Request IR-2-47	No	04/30/2007	M3-06-12835

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
1	Repair	Pressurizer safety "C" nozzle to safe-end, dissimilar metal weld 03-X-5649-C-T	Machine and perform weld overlay per approved Relief Request IR-2-47	No	04/30/2007	M3-06-12836
1	Repair	Pressurizer relief nozzle to safe-end, dissimilar metal weld 03-X-5650-D-T	Machine and perform weld overlay per approved Relief Request IR-2-47	No	04/30/2007	M3-06-12837
2	Replacement	RSS Valve 3RSS*MOV23C	Replace encapsulating flange cap screws	No	04/23/2007	M3-07-03295
2	Replacement	RSS Valve 3RSS*MOV23D	Replace encapsulating flange cap screws	No	04/23/2007	M3-07-03293