

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



AUG 15 2005

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

Serial No. 05-530
MPS Lic/RWM R0
Docket No. 50-336
License No. DRP-65

DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 2
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 16 for Millstone Power Station Unit 2. 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,

A handwritten signature in cursive script that reads "Stephen E. Scace".

Stephen E. Scace
Nuclear Station Safety and Licensing

Enclosure(s):

1. Millstone Power Station Unit 2, Owner’s Activity Report for Refueling Outage 16

Commitments made in this letter: None.

A0417

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

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Mr. S. M. Schneider
NRC Senior Resident Inspector
Millstone Power Station

Serial No.: 05-530
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Attachment 1

INSERVICE INSPECTION PROGRAM – OWNER’S ACTIVITY REPORT

REFUELING OUTAGE 16

MILLSTONE UNIT 2

DOMINION NUCLEAR CONNECTICUT, INC. (DNC)

MILLSTONE POWER STATION

UNIT NO. 2

OWNER'S ACTIVITY REPORT

REFUELING OUTAGE 16

Revision 0

Contents:

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Prepared By: *Richard A. Zuber*
ISI Program Coordinator

Date: *8/4/05*

Reviewed By: *Elizabeth J. Hall-Hess*
Authorized Nuclear Inservice Inspector

Date: *08/04/2005*

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number MP2-2R16

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 06385
(Name and Address of Plant)

Unit Number 2 Commercial Service Date 12/26/1975 Refueling Outage Number 16
(if applicable)

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

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

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

Date and Revision of Inspection Plan 01/20/2005 Revision 2, Change 4

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 Expiration Date N/A
(if applicable)

Signed Rich A. Ziller, ISI Coordinator Date 8/4/05
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 December 1, 2003 to May 18, 2005, 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.

[Signature] Commissions N/S 9584 CT137
Inspector's Signature National Board, State, Province and Endorsements

Date August 4, 2005

Table 1
ABSTRACT OF EXAMINATIONS AND TESTS (See Note 1)
 (Page 1 of 2)

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
B-A	28	0	0%	11%	See Note 2
B-B	9	2	22%	56%	
B-D	34	10	29%	65%	
B-E	N/A	0	0%	0%	Tracked under B-P pressure tests per approved Relief Request RR-89-16.
B-F	8	1	12%	100%	See Note 4
B-G-1	219	90	41%	67%	
B-G-2	90	22	24%	57%	
B-H	1	0	0%	0%	Not required for Third Interval, MP-2 has elected to perform examination of one support skirt due to SG replacement in 1992.
B-J	52	12	23%	100%	See Note 4
B-L-1	2	2	100%	100%	See Note 2
B-L-2	1	0	0%	100%	See Note 5
B-M-2	3	3	100%	100%	See Note 5
B-N-1	3	1	33%	66%	
B-N-2	15	0	0%	0%	See Note 2
B-N-3	33	0	0%	0%	See Note 2
B-O	15	0	0%	0%	See Note 2
B-P	12	4	33%	66%	Required for examination each refueling outage. The total examinations are based on 6 refueling outages anticipated during the interval.
C-A	7	2	28%	57%	
C-B	6	2	33%	66%	
C-C	43	21	48%	72%	
C-F-1	77	27	35%	64%	
C-F-2	29	14	48%	66%	

Table 1
ABSTRACT OF EXAMINATIONS AND TESTS (See Note 1)
 (Page 2 of 2)

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
C-H	71	23	32%	61%	Note 6
D-A	6	2	33%	66%	Note 6
D-B	21	2	9%	42%	Note 6
D-C	12	0	0%	33%	Note 6
E-A	96 (32/period)	32	33%	66%	100% of the examination items are inspected each period
E-C	44 (22/Period)	22	50%	50%	No Category E-C exams were required during the 1 st inspection period.
L-A	33	0	0	100%	See Note 3
L-B	9	0	0	100%	See Note 3
F-A	273	89	2%	65%	
R-A	54	22	41%	41%	Category implemented during the 2 nd period

Notes:

- This report represents a summary of the inservice inspection activities performed at Dominion Nuclear Connecticut's Millstone Unit 2 power station during the Spring of 2005 refueling outage (2R16). This is the 2nd of 2 outages in the second period of the third inspection interval.
- For this examination Category, deferral of examinations to later in the interval is permissible in accordance with ASME Section XI, IWB-2500-1 requirements.
- The required examination frequency for this category is every 5 years. The total examinations credited to date for the interval reflect examinations completed based on this 5-year interval.
- The Class 1 Risk Informed program was approved for use at Millstone Unit 2 by NRC correspondence dated 4/1/2005. Based on this approval, Examination Category B-F and B-J have been replaced with Examination Category R-A prior to this 2nd outage of the 2nd period. The total examinations required of the interval listed for category B-F and B-J now reflect the examinations that have been completed in these categories which met the 1st period percentage requirements.
- Examinations in this category are required only if the pump or valve is disassembled for maintenance, repair, or volumetric examination.
- The system pressure tests in this Category are required for examination each Period. The total examinations are based on the 3 Periods during the interval. The total examinations credited reflect that some remaining items are scheduled to be completed post outage (online) prior to the end of the current inspection period.

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

(Page 1 of 2)

Examination Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
F-A	F1.30	Pipe Support 329002	Incomplete thread engagement of one nut. The lack of full thread engagement was evaluated as acceptable for continued service by Engineering.	Yes
F-A	F1.20	Pipe Support 302027	Incomplete thread engagement on one nut. The thread engagement was evaluated as acceptable for continued service by Engineering.	Yes
F-A	F1.20	Pipe Support 401021	Incomplete thread engagement on one nut. The engagement was evaluated as acceptable for continued service by Engineering.	Yes
F-A	F1.20	Pipe Support 506006-A	Corrosion detected on support structural member. Evaluated and dispositioned by Engineering as acceptable.	Yes
F-A	F1.20	Pipe Support 312009	Missing base plate bolt evaluated and dispositioned by Engineering as acceptable.	Yes
B-G-2	B7.70	Valve 2-CH-517	Body to bonnet bolting less than full engagement through valve body. Engineering evaluation and disposition as acceptable	Yes

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

(Page 2 of 2)

Examination Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
C-F-2	C5.51	Piping Weld 2-CG-CP-055	Ultrasonic indication at the weld root. Evaluated as acceptable per ASME Section IWB-3514.	Yes

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

(Page 1 of 2)

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	Replacement	Valve 2-CS-6B	Replace body to bonnet bolting	No	02/16/2005	M2-04-06172
3	Replacement	Valve 2-FW-52	Replace disk and body to bonnet bolting.	No	04/17/2005	M2-03-10526
3	Replacement	Valve 2-SW-9A	Replace body to bonnet bolting	No	10/24/2003	M2-03-00222
1	Replacement	Reactor Vessel Head	Install Replacement Reactor Vessel Head	No	05/16/2005	M2-04-11549
1	Replacement	Pressurizer	Install new Pressurizer Heater at location B2	No	05/16/2005	M2-05-04245
1	Repair	Pressurizer	Install MNSA clamp at leaking Pressurizer heater penetration at location B2	No	05/16/2005	M2-05-02564
2	Repair	Weld No. 2, Line 48-HBB-8 Containment Purge Exhaust System	Repair weld indication identified on construction radiograph	Yes	05/10/2005	M2-05-03125
3	Replacement	Feedwater System Piping	Replace section of Line No. 18-EDB(A)-8 downstream of valve 2-FW-4B	No	11/10/2003	M2-03-03973

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

(Page 2 of 2)

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	Feedwater System Piping	Replace section of Line No. 18-EDB(A)-8 upstream of Valve 2-FW-5A	No	11/14/2003	M2-03-03975
3	Replacement	Feedwater System Piping	Replace section of Line No. 18-EDB(A)-8 downstream of valve 2-FW-4A	No	11/8/2003	M2-02-13760
3	Replacement	Feedwater System Piping	Replace section of Line No. 18-EDB(A)-8 downstream of valve 2-FW-4B	No	11/17/2003	M2-03-03974
3	Replacement	Auxiliary Feedwater Pump P9A discharge piping	Install replacement piping	No	04/30/2005	M2-05-04894
2	Replacement	Auxiliary Feedwater piping, Line No. 6-EBB-1	Install replacement elbow	No	05/06/2005	M2-05-04895
3	Repair	Service System piping	Repair degraded base metal on the inlet flange of spool piece SK-920A and SK-921	No	04/30/2005	M2-05-04621
2	Replacement	Pipe Support No. HGR-312015B	Replace snubber assembly	No	05/23/2005	M2-04-07008
2	Replacement	Pipe Support No. HGR-413019B	Replace snubber assembly	No	04/19/2005	M2-04-07109
2	Replacement	Feedwater System Piping Upstream of Steam Generator No. 1	Install replacement elbow and pipe piece	No	11/13/2003	M2-03-09209
2	Replacement	Feedwater System Piping Upstream of Steam Generator No. 2	Install replacement elbow and pipe piece	No	11/14/2003	M2-03-12239