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

Dominion

OCT 26 2005

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

Serial No. 05-718
MPS Lic/RWM R0
Docket No. 50-423
License No. NPF-49

DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 3
STEAM GENERATOR TUBE PLUGGING REPORT

This special report is being submitted pursuant to the requirements of Plant Technical Specifications 4.4.5.5.a and 6.9.2. Plant Technical Specification 4.4.5.5.a requires that a special report be submitted to the commission within 15 days following completion of each inservice inspection of the steam generator tubes, to document the number of tubes plugged.

The eddy current inspections conducted at the end of cycle 10 were completed on October 12, 2005. The attached tables summarize the number of tubes examined and identify tubes removed from service as a result of the examination. The scheduled inspections were performed in Steam Generators A and C. All operational tubes within the A and C steam generators, a total of 11,207, were inspected with bobbin probes. Additionally, an augmented sample (6,794 tube locations) was inspected in the A and C steam generators utilizing rotating probes incorporating plus point coils. The plus point probe provides superior detection of both circumferential and axial cracks, and has been qualified per the PWR S/G Examination Guidelines, Appendix H, for the detection of cracking mechanisms. The rotating probe inspections were performed in areas of special interest including hot leg expansion transitions, low row u-bends, tubesheet overexpansions, and dents, as well as locations where the bobbin probe response was ambiguous.

There were no repairs required for the 'C' steam generator. Two tube repairs were performed in 'A' Steam Generator. Eddy current testing identified flaws greater than or equal to the plugging limit in one (1) tube. The plugging limit is defined within Technical Specifications as an imperfection depth of 40 percent nominal tube wall thickness or greater. Additionally, the second tube was removed from service on a discretionary basis. The basis for the repair is:

One tube was identified with anti-vibration bar (AVB) wear, sized at 42 percent throughwall; exceeding the Technical Specification plugging limit. At the end of cycle 8, AVB wear at this location had been sized at 36 percent through wall.

One tube was identified with anti-vibration bar (AVB) wear, sized at 37 percent throughwall; discretionarily removed from service.

All tubes were removed from service by the installation of Framatome Alloy 690 Rolled Mechanical Tube Plugs on October 12, 2005.

A001

The inspection results for both steam generators (i.e., A and C) resulted in a classification as C1.

The complete results of the steam generator tube inspection will be submitted within 12 months in accordance with Technical Specification 4.4.5.5.b.

If you should have any questions regarding this submittal, please contact Mr. David W. Dodson at (860) 447-1791, extension 2346.

Very truly yours,

J. Alan Price
Site Vice President - Millstone

Attachments: 1

Commitments made in this letter: None.

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

Mr. G. F. Wunder
Project Manager Millstone Unit No. 3
U.S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Mail Stop 8B1A
Rockville, MD 20852-2738

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

Serial No. 05-718
Docket No. 50-423

Attachment 1

Millstone Power Station, Unit No. 3

Steam Generator Tube Plugging Report

MILLSTONE POWER STATION UNIT 3
DOMINION NUCLEAR CONNECTICUT, INC.

TABLE 1 - MILLSTONE 3 RF10 ECT SUMMARY

	SG A	SG C	Total
Number of Tubes (SG A and C only)	5,626	5,626	11,252
Number of Tubes Inspected F/L w/Bobbin Probe	5,227	5,252	10,479
Number of Tubes Inspected w/Bobbin Probe Hot Leg and Cold Leg Candy Canes	365	363	728
Previously Plugged Tubes	34	11	45
Number of Tubes Incomplete w/Bobbin Probe due to Obstruction	0	0	0
Number of Tube Inspections w/MRPC (Total)	3,543	3,251	6,794
•Hot Leg Transitions - Original Scope (tubes)	2,813	2,813	5,626
•Hot Leg Transitions - Scope Expansion (tubes)	0	0	0
•Hot Leg OXP ≥ 28.3V (+3 / -16) (tubes)	179	25	204
•Row 1 and 2 U-Bends – Original Scope (tubes)	122	121	243
•Row 1 and 2 U-Bends – Additional Scope (tubes)	11	1	12
•Hot Leg Misc. Special Interest - Diagnostic Exams and from Previous History (tubes)	232	163	392
•Cold Leg Transitions - Scope Expansion (tubes)	0	0	0
•Cold Leg Misc. Special Interest - Diagnostic Exams and from Previous History (tubes)	104	55	159
•U-bend. Special Interest – Diagnostic Exams and from Previous History (tubes)	0	1	1
•PLP / SVI Bounding Special Interest (examinations)	82	72	154
Tubes with Max AVB Wear ≥ 40 %	1	0	1
Tubes with Max AVB Wear ≥20% but <40%	56	14	70
Tubes with Max AVB Wear <20%	78	11	89
Tubes with Max SVI ≥ 40 %	0	0	0
Tubes with Max SVI ≥20% but <40%	5	2	7
Tubes with Max SVI <20%	7	14	21
Tubes Plugged as a result of SVI ≥ 37 %	0	0	0
Tubes Plugged as a result of AVB Wear ≥ 37 %	2	0	2
Tubes Plugged as a result of an Obstruction	0	0	0
Tubes Plugged on a discretionary basis	1	0	1
Total Tubes Plugged as a Result of this Inspection	2	0	2

TABLE 2 - TUBES PLUGGED DURING RF10 FOR AVB WEAR (≥ 40%)

A S/G (ONLY)		
ROW	COLUMN	% THROUGHWALL
44	60	42%

TABLES 3 - DISCRETIONARY TUBES PLUGGED FOR AVB WEAR DURING RF10

A S/G (ONLY)		
ROW	COLUMN	% THROUGHWALL
53	33	37%

TABLE 4 - TOTAL TUBES PLUGGED TO DATE

	S/G A	S/G B	S/G C	S/G D	TOTAL
Fabrication	1	2	2	0	5
Preservice	2	1	1	1	5
RFO1	1	0	0	1	2
RFO2	4	-	0	-	4
RFO3	-	0	-	5	5
RFO4	6	-	1	0	7
RFO5	-	1	-	10	11
MID CYCLE	-	-	2	-	2
RFO6	12	-	2	-	14
RFO7	-	0	-	51	51
RFO8	8	-	3	-	11
RFO9	-	0	-	10	10
RF10	2	-	0	-	2
TOTAL	36	4	11	78	129