April 25, 2004

MEMORANDUM TO: James W. Clifford, Chief
Project Directorate II-2
Division of Licensing Project Management

FROM: A. Louise Lund, Chief ***/RA/***
Steam Generator Integrity & Chemical Engineering Section
Materials and Chemical Engineering Branch
Division of Engineering

SUBJECT: SUMMARY OF NRC'S REVIEW OF MILLSTONE 3 STEAM GENERATOR TUBE INSPECTION REPORTS FOR THEIR FALL 2002 OUTAGE (TAC NO.: MC0631)

By letters dated October 7, 2002 (ML022910045), August 25, 2003 (ML032471591) and April 5, 2004 (ML040970336), Dominion Nuclear Connecticut, Inc., the licensee, submitted information pertaining to their 2002 steam generator tube inspection at Millstone Power Station, Unit 3.

The staff of the Materials and Chemical Engineering Branch (EMCB) of the Division of Engineering has completed its review of the Millstone Power Station, Unit 3, in-service inspection report and related submittals. The staff has reviewed the information provided by the licensee and concludes that the licensee provided the information required by their technical specifications and that no additional follow-up is required at this time. The staff's review of the report is attached.

Please include me, Martin Murphy and Yamir Diaz on distribution of the final document. If you elect to significantly change the attached evaluation prior to sending it to the licensee, please include me on concurrence.

Docket No.: 50-423

Attachment: As stated

CONTACT: Yamir Díaz, EMCB/DE
415-2228

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OFFICE	EMCB:DE	E	EMCB:DE	
NAME	YDíaz		LLund	
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REVIEW OF 2002 STEAM GENERATOR TUBE INSPECTION REPORTS
MILLSTONE POWER STATION UNIT 3
DOCKET NO. 50-423

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Millstone Unit 3 has four Westinghouse Model F steam generators. These steam generators have thermally treated alloy 600 tubes. During refueling outage eight in 2002, 100-percent of the tubes in steam generators A and C were inspected. In addition to the bobbin inspections, a rotating probe was used to inspect various locations of special interest, including the hot leg tube sheet areas, low row u-bends, bulges, wear and dings. The scope and results of the licencee's inspection are described in the reports referenced above.

Of particular note from the outage is that one tube in steam generator C was identified with an obstruction and was plugged. In response to an NRC question, the licensee stated that the obstruction occurred at 7.29 inches above the cold leg tube end or approximately 13 inches below the top of the tubesheet. The licensee reviewed the historical eddy current data and determined the obstruction was service induced. The cause of the obstruction was not provided. Nonetheless, since the obstruction blocked the insertion of a probe with an adequate fill factor, the tube was plugged and removed from service.

Based on our review of the information provided by the licensee, the NRC staff concludes that the information that the licensee provided was sufficient and that no additional follow-up is required at this time.

ATTACHMENT