October 4, 2004

MEMORANDUM TO: Daniel S. Collins, Acting Chief
Project Directorate Section I-2
Division of Licensing Project Management

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

SUBJECT: REVIEW OF MILLSTONE UNIT 2 STEAM GENERATOR TUBE INSPECTION REPORTS FOR THEIR 2003 OUTAGE (TAC NO.: MC2525)

By letters dated November 5, 2003 (ML033240373), February 26, 2004 (ML040690874), and September 23, 2004 (ML042670416), Dominion Nuclear Connecticut, Inc., the licensee for Millstone Power Station Unit 2, submitted reports summarizing the steam generator tube inspections performed at Millstone Unit 2 during Refueling Outage 15 in October 2003.

As discussed in the attached evaluation, the staff concludes that the licensee provided the information required by their technical specifications. In addition, the staff did not identify any technical issues that warranted follow up action at this time.

If you elect to significantly change the attached evaluation prior to sending it to the licensee, please include me on concurrence. Please include myself, Martin Murphy, and Ken Karwoski on distribution for the final document. Upon issuance of the attached summary, this TAC can be closed.

We appreciate your support in this matter.

Docket No.: 50-336

Attachment: As Stated

CONTACT: Ken Karwoski, NRR/DE/EMCB
301-415-2752

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MILLSTONE POWER STATION UNIT 2

EVALUATION OF 2003 REFUELING OUTAGE

STEAM GENERATOR TUBE INSPECTION RESULTS

DOCKET NO. 50-336

By letters dated November 5, 2003 (ML033240373), February 26, 2004 (ML040690874), and September 23, 2004 (ML042670416), Dominion Nuclear Connecticut, Inc., the licensee for Millstone Power Station Unit 2, submitted reports summarizing the steam generator (SG) tube inspections performed at Millstone Unit 2 during Refueling Outage 15 in October 2003.

The two steam generators at Millstone 2 were replaced in 1993 with steam generators fabricated by Babcock and Wilcox International. Each steam generator nominally contains 8,523 thermally treated Alloy 690 tubes. Each tube has a nominal outside diameter of 0.750-inch and a nominal wall thickness of 0.0445-inch. The tubes were hydraulically expanded at both ends for the full length of the tubesheet and are supported by a number of stainless steel tube support plates. The U-bends of the tubes installed in rows 1 through 8 were thermally stress relieved after bending.

The licensee provided the scope, extent, methods, and results of their steam generator tube inspections in the documents referenced above. In addition, the licensee described corrective actions (e.g., tube plugging or repair) taken in response to the inspection findings. Based on a review of the information provided, the staff concludes that the licensee provided the information required by their technical specifications. In addition, the staff concludes that there are no technical issues that warrant follow-up action at this time since the inspections appear to be consistent with the objective of detecting potential tube degradation and the inspection results appear to be consistent with industry operating experience at similarly designed and operated units. The staff has the following observations regarding the information provided.

> The licensee has detected a few bulges, dents, and dings in their steam generators. Although the submitted reports were not clear as to whether some of these indications were service induced (i.e., were not present in the baseline inspection based on either reports from the baseline inspection or a subsequent review of the baseline data), the licensee provided inspection results from these locations which have shown no degradation affecting these locations.

ATTACHMENT