YANKEE ATOMIC ELECTRIC COMPANY
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U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-001

Reference: License No. DPR-3 (Docket No. 50-29)

Subject: 10CF50.59 Evaluation, Biennial Summary Report for 2005/2006

In accordance with the requirements of 10CFR50.59 (d)(2), Yankee Atomic Electric Company (YAEC) herewith submits the enclosed 10CFR50.59 Evaluation Biennial Summary Report for 2005 and 2006. The report briefly describes the facility changes, test, and experiments implemented at the Yankee Nuclear Power Station (YNPS) without prior NRC approval, as allowed under the provisions of 10CFR50.59.

We trust that this information is satisfactory. However if you should have any questions or require any additional information, please contact me at (860) 267-3938 or Alice Carson at (301) 916-3995.

Sincerely,

G. van Noordennen

Gerard van Noordennen
Regulatory Affairs Manager

cc: S. Collins, NRC Region I Administrator
M. Roberts, Acting Chief, Decommissioning Branch, NRC Region I
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J. Hickman, NRC Project Manager

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Yankee Atomic Electric Company
Yankee Nuclear Power Station
Docket No. 50-29
10CFR50.59 Evaluation, Biennial Summary Report for 2005/2006

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Evaluation No. 05-01: Sherman Dam Extension and Final Site Grading

The associated design change request (YA-DCR-00-001-05) covered the construction of an extension to the Sherman Dam on the site that was formerly occupied by the Yankee Nuclear Power Station (YNPS). The extension is necessary to reestablish a continuous dam crest elevation from one side of the Deerfield River valley to the other. The roadway along the dam crest was also being extended and aligned to the ISFSI access road, thus establishing a roadway for the removal of spent nuclear fuel in a licensed transport cask.

After completion of the dam extension, the former YNPS site will conform to the requirements of the Integrated Permit Package. Finished grades would be at least three feet above the original site contours. No residual radiological source term would exist above the site approved limits for the termination of the 10CFR50 license. The work is performed as part of the overall decommissioning of the YNPS.

This evaluation demonstrates that the Sherman Dam extension and associated site grading activities conform to existing licensing requirements, do not pose undue risk to health and safety of the public, and do not require review and approval by the NRC prior to implementation.

FERC review and approval is required to implement the dam extension.

Evaluation No. 05-02: Biennial Update of the YNPS FSAR for June 2005

The Yankee Nuclear Power Station (YNPS) Final Safety Analysis Report (FSAR) was updated. The majority of the YNPS FSAR changes that comprised the update were classified under the following categories:

- Changes to facilitate YNPS-related decommissioning and dismantlement, and
- Administrative changes that clarified and/or updated existing YNPS FSAR information.

This evaluation demonstrates that the June 2005 YNPS FSAR update conforms to existing licensing requirements, does not pose undue risk to health and safety of the public, and does not require review and approval by the NRC prior to implementation.