

**YANKEE ATOMIC ELECTRIC COMPANY**

580 Main Street, Bolton, Massachusetts 01740-1398

JAY K. THAYER  
VICE PRESIDENT and  
MANAGER OF OPERATIONS

March 23, 1995  
BYR 95-021

Office of Nuclear Material Safety & Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Attention: Mr. Robert Bernero, Director

Reference: (a) License No. DPR-3 (Docket No. 50-29)  
(b) USNRC Letter to YAEC, M. B. Fairtile to  
J. A. Kay, dated February 14, 1995

Subject: APPLICATION FOR 10 CFR PART 71 CERTIFICATE OF  
COMPLIANCE

Dear Mr. Bernero:

Yankee Atomic Electric Company (YAEC) is the owner and operator of the Yankee Nuclear Power Station (YNPS) located in Rowe, MA. On February 26, 1992, YNPS was permanently shutdown after 32 years of operation. The YNPS Decommissioning Plan was submitted to the Nuclear Regulatory Commission (NRC) on December 20, 1993 and approved February 14, 1995 (Reference (b)).

In accordance with the Decommissioning Plan, YAEC intends to remove and package the Reactor Pressure Vessel (RPV) for disposal. As part of that process and in accordance with 10CFR71, "Packaging and Transportation of Radioactive Material," YAEC requests a certificate of compliance for the shipping package to be used to transport the RPV.

The attached Safety Analysis Report (SAR), which has been developed using the guidance of Regulatory Guide 7.9, "Standard Format and Content of Part 71 Applications for Approval of Packaging of Radioactive Material," Revision 2, provides the basis for approval of the requested certificate of compliance. As explained in the attached SAR, the RPV package has been characterized as low specific activity material and will be shipped as an exclusive use package. The model number to be used for the RPV package for the certificate of compliance will be "YNPS RPV PACKAGE."

Two methods will be employed to transport the RPV package from the plant to a low-level radioactive waste repository. The two

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methods are road and rail carriers. The RPV package will be hauled from the plant over the road, using a heavy haul trailer specifically suited for this service. The roadway haul route is about six miles long. The route begins at the plant site boundary, then along the road on the crest of the Sherman Dam and over the Sherman Dam spillway bridge, which is owned by the New England Power Company. From there the route turns south onto a public road. This road passes through the Massachusetts towns of Monroe and Florida. The roadway transportation of the RPV package terminates at a rail line near the Hoosac Tunnel in the town of Florida.

Each roadway segment of the RPV package transport will be evaluated by professional engineers registered in the Commonwealth of Massachusetts, and by the appropriate state and federal regulators. A geotechnical assessment of the Sherman Dam subjected to the weight of the RPV package together with the heavy hauler will be performed. This evaluation is expected to be submitted to the NRC by June 19, 1995 for your review and concurrence with its acceptability.

The Sherman Dam spillway bridge will be replaced prior to transportation of the RPV package. The new bridge will be designed for the RPV package loads using criteria set forth in the American Association of State Highway & Transportation Officials (AASHTO) Standard Specifications for Highway Bridges, 15th Edition. The design will be reviewed and approved by the Federal Energy Regulatory Commission and the Massachusetts Highway Department (MHD) Bridge Division.

Roadway culverts along the haul route will be analyzed in accordance with the requirements of the AASHTO Standard Specifications for Highway Bridges, 15th Edition. These calculations will be submitted to the MHD Bridge Division for their approval. Stability analyses of slopes along the route will be performed using state-of-the-art methods and submitted to the MHD Geotechnical Division for their approval. Overweight permitting is the responsibility of the towns through which the haul route passes.

The railroad segment of the RPV package transport will be performed in accordance with the applicable requirements of the Department of Transportation. After the package has been transferred from the roadway trailer to a rail car, the tie-down system will be inspected by rail car inspectors qualified to the rules of the Association of American Railroads. No segment of the road or rail transport will be conducted until the appropriate regulatory review has been completed.

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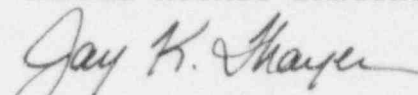
Yankee will conduct the planned RPV removal project in a safe manner. Yankee also is required to complete the project economically within the constraints of safety. Therefore, YAEC has established an aggressive schedule for completing the project. Obtaining a certificate of compliance for the RPV package is one of many important facets of this project. In that respect, we would appreciate your immediate attention to this application. Based on preliminary discussions with your staff, we believe the target date of June 15 for questions is realistic and should be a goal. YAEC is prepared to respond to your Staff's questions in a complete and timely manner to ensure facilitation of NRC's review and approval by September 29, 1995.

The attached SAR contains two appendices which are considered proprietary by Yankee Atomic Electric Company. In accordance with 10CFR2.790(b)(1), an affidavit attesting to the proprietary nature of the appendices is also attached.

I trust that the information provided in this letter, attached SAR, and attached affidavit is satisfactory for your needs. As recommended by Regulatory Guide 7.9, YAEC is providing ten copies of the application package. If you should have any questions regarding YAEC's request and/or supporting information, please contact Mr. Jim Kay at 508-779-6711 (x2302).

Sincerely,

YANKEE ATOMIC ELECTRIC COMPANY



Jay K. Thayer  
Vice President and  
Manager of Operations

COMMONWEALTH OF MASSACHUSETTS)

) ss

WORCESTER COUNTY )

Then personally appeared before me, J. K. Thayer, who, being duly sworn, did state that he is the Vice President and Manager of Operations of Yankee Atomic Electric Company, that he is duly authorized to execute and file the foregoing document in the name of and on behalf of Yankee Atomic Electric Company and that the statements therein are true to the best of his knowledge and belief.



Kathryn Gates Notary Public  
My Commission Expires January 24, 1997

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**AFFIDAVIT PURSUANT**

**TO 10CFR2.790**

Yankee Atomic Electric Company )  
Nuclear Services Division )  
Commonwealth of Massachusetts ) SS:  
Worcester County )

I, J. K. Thayer depose and say that I am the Vice President and Manager of Operations of Yankee Atomic Electric Company, duly authorized to make this affidavit, and have reviewed or caused to have reviewed the information which is identified as proprietary. I am submitting this affidavit in accordance with the provision of 10CFR2.790 of the Commission's regulations for withholding this information.

The information for which proprietary treatment is sought is contained in the Appendices (specifically Appendix 1.4 and Appendix 2.11) of the Safety Analysis Report attached to our letter, Yankee Atomic Electric Company to U.S. Nuclear Regulatory Commission, dated March 23, 1995.


Pursuant to the provisions of Paragraph (b) (4) of Section 2.790 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure, included in the above referenced document, should be withheld.

1. The material contained in this transmittal was obtained at considerable expense to Yankee Atomic Electric Company and the release of which would seriously affect our competitive position.
2. The material contained in this transmittal is of the type customarily held in confidence and not customarily disclosed to the public.
3. This information is being transmitted to the Commission in confidence under the provisions of 10CFR2.790 with the understanding that it is to be received in confidence by the Commission.
4. This information is for Commission internal use only and should not be released to persons or organizations outside the Directorate of Regulation and the ACRS without prior approval of Yankee Atomic Electric Company. Should it become necessary to release this information to such person as part of the review procedure, please contact Yankee Atomic Electric Company.

Further deponent sayeth not.

Sworn to before me this  
23th day of March, 1995

  
Jay K. Thayer  
Vice President & Manager of Operations

  
Kathryn Gates - Notary Public  
My Commission Expires 1/24/97

