

Mr. Michael J. Meisner, President
Maine Yankee Atomic Power Company
P.O. Box 408
Wiscasset, Maine 04578

June 15, 1998

SUBJECT: SECOND REQUEST FOR ADDITIONAL INFORMATION FOR EXEMPTION FROM
FINANCIAL PROTECTION REQUIREMENT LIMITS (TAC NOS. MA0659 AND
MA0660)

Dear Mr. Meisner:

We are conducting our review of your proposed exemptions to certain insurance coverage and financial protection requirement limits of 10 CFR 50.54(w) and 10 CFR 140.11, as detailed in your letter to us dated January 20, 1998. However, in order for us to complete our evaluation of the spent fuel heatup analysis that you conducted to determine the time at which the Maine Yankee fuel would not exceed 565°C should the spent fuel pool be drained of all water, we require additional information as specified in the enclosed. This request affects nine or fewer respondents and therefore, is not subject to Office of Management and budget review under P.L. 96-511.

If you have any questions regarding this request, please contact me at (301) 415-1347.

Sincerely,

ORIGINAL SIGNED BY:

Michael K. Webb, Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 50-309

Enclosure: As stated

cc w/enclosure: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

June 15, 1998

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Michael K Webb

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Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

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cc w/enclosure: See next page

Maine Yankee Atomic Power Station

Docket No. 50-309

cc:

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Wiscasset, ME 04578

REQUEST FOR ADDITIONAL INFORMATION
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
ASSESSMENT OF THE LOSS OF WATER FROM THE
SPENT FUEL POOL AT MAINE YANKEE (MY) ATOMIC POWER STATION

1. The information submitted by MY does not contain sufficient information about the building temperature during the scenario being analyzed. Provide your building temperature analysis.
2. The information submitted by MY does not contain sufficient information about the basis for the decay heat used in your analysis. Provide the supporting information for your decay heat values. This should include detailed information about your experimental measurements and the method used to reduce the data. Compare the decay heat used by MY to the current ANS decay heat standard and describe your treatment of uncertainties.
3. The information submitted by MY does not contain sufficient information about the adequacy of TRAC for the analysis. Provide information that demonstrates that the models contained in TRAC (including heat transfer and wall drag correlations) are adequate for the geometry and conditions that are being analyzed. Include any information about code assessment applicable to the conditions MY is using the code for.
4. The information submitted by MY does not contain sufficient information about the adequacy of the modeling approach used in the analysis. Provide information showing that the additive form loss coefficients used in the analysis are appropriate for the geometry and flow conditions present in the analysis. Also provide information showing that the single hot channel modeling results are conservative compared to an approach that would include parallel flow paths through lower powered bundles.
5. TRAC and other NRC computer codes are not developed and maintained under an Appendix B QA program. Computer codes used by the industry in regulatory analyses must meet Appendix B QA standards. This means that someone has to verify that the models are correctly coded in TRAC and that code assessment must be performed to show that the code is adequate for the analysis. Please certify that the version of TRAC used in the analysis meets Appendix B QA standards.
- C. Provide a discussion of the available margin determined by the analysis and an estimate of the calculation uncertainties.

ENCLOSURE