

June 24, 2008

Vice President, Operations  
Entergy Nuclear Operations, Inc.  
James A. FitzPatrick Nuclear Power Plant  
P.O. Box 110  
Lycoming, NY 10393

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT - REQUEST FOR  
ADDITIONAL INFORMATION REGARDING AMENDMENT APPLICATION FOR  
RELOCATION OF PRESSURE AND TEMPERATURE CURVES TO THE  
PRESSURE AND TEMPERATURE LIMITS REPORT (TAC NO. MD8556)

Dear Sir or Madam:

On April 22, 2008, Entergy Nuclear Operations, Inc. (Entergy), submitted an application for a proposed amendment for the James A. FitzPatrick Nuclear Power Plant which would adopt the methodology of SIR-05-044-A, "Pressure-Temperature Limits Report [PTLR] Methodology for Boiling Water Reactors," for preparation of the pressure and temperature curves, and incorporate the guidance of Technical Specification Task Force TSTF-419-A, "Revise PTLR Definition and References in ISTS [Improved Standard Technical Specifications] 5.5.6, RCS [Reactor Coolant System] PTLR."

The Nuclear Regulatory Commission staff is reviewing the submittal and has determined that additional information is needed to complete its review. The specific questions are found in the enclosed request for additional information (RAI). During a telephone call on June 23, 2008, the Entergy staff indicated that a response to the RAI would be provided by July 23, 2008.

Please contact me at (301) 415-4093 if you have any questions on this issue.

Sincerely,

**/RA/**

Adrian Muñiz, Project Manager  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-333

Enclosure:  
RAI

cc w/encl: See next page

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Enclosure:  
RAI

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James A. FitzPatrick Nuclear Power Plant

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REQUEST FOR ADDITIONAL INFORMATION  
REGARDING RELOCATION OF PRESSURE AND TEMPERATURE CURVES  
TO THE PRESSURE AND TEMPERATURE LIMITS REPORT  
ENTERGY NUCLEAR OPERATIONS, INC.  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT (JAFNPP)  
DOCKET NO. 50-333

In a letter dated April 22, 2008, (ADAMS Accession No. ML081200881), Entergy Nuclear Operations, Inc. (Entergy), submitted an application for a proposed amendment to the Technical Specifications (TSs) (or license or licensing basis) for the James A. FitzPatrick Nuclear Power Plant which would adopt the methodology of SIR-05-044-A, "Pressure-Temperature Limits Report [PTLR] Methodology for Boiling Water Reactors," for preparation of the pressure and temperature curves, and incorporate the guidance of Technical Specification Task Force TSTF-419-A, "Revise PTLR Definition and References in ISTS [Improved Standard Technical Specifications] 5.5.6, RCS [Reactor Coolant System] PTLR." The Nuclear Regulatory Commission (NRC) staff is reviewing the submittal and has the following questions:

1. Provide an evaluation showing that you have performed analysis for the bottom head region and the non-beltline region in accordance with SIR-05-044-A and identify the portion of the proposed P-T limits (Figure 3 of the proposed PTLR is sufficient) that are limited by materials in these regions.
2. Provide an evaluation for the small diameter, drill-hole type instrument nozzle (e.g., water level nozzle) if it exists in your reactor pressure vessel (RPV) beltline.
3. Identify among the three methodologies (Page 2-13 of SIR-05-044-A) the one that you used to calculate thermal stress intensity factors for shell regions.
4. Provide the temperature instrument uncertainty, the pressure instrument uncertainty, and the pressure head to account for the column of water in the RPV (Page 2-25 of SIR-05-044-A) so that the NRC staff can assess the difference between the staff's calculated P-T limits and your proposed P-T limits.
5. Provide Reference 6.3, "Evaluation of Adjusted Reference Temperatures and Reference Temperature Shifts," dated February 2008; Reference 6.4, "Revised P-T Curves, dated February 2008, and Reference 6.14, "BWRVIP-135, Revision 1: BWR Internals Project, Integrated Surveillance Program Data Source Book and Plant Evaluation," dated June 2007, to supplement the above requested specific information and to provide information regarding data and methodology for the adjustment of chemistry factors.

Enclosure

6. The guidelines in SIR-05-044-A provided for analysis of feedwater nozzles. Identify the specific analysis performed for the JAFNPP feedwater nozzles, or explain why the analysis was not necessary.