

December 23, 2002

Mr. Mike Bellamy
Site Vice President
Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360

SUBJECT: PILGRIM NUCLEAR POWER STATION - REQUEST FOR ADDITIONAL
INFORMATION RE: APPENDIX K MEASUREMENT UNCERTAINTY
RECOVERY - POWER UPRATE REQUEST (TAC NO. MB5603)

Dear Mr. Bellamy:

By application dated July 5, 2002, as supplemented September 27, November 6, and November 21, 2002, Entergy Nuclear Operations, Inc., submitted a license amendment request for proposed changes to the operating license and technical specifications associated with an increase in the licensed power level for Pilgrim Nuclear Power Station from 1998 MWt to 2028 MWt (1.5%).

The U.S. Nuclear Regulatory Commission staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter and was discussed with Mr. Bryan Ford and other members of your staff during a telephone call on December 12, 2002. In a follow-up call on December 17, 2002, Mr. Ford agreed that your staff will respond to the requested information by December 31, 2002. If circumstances result in the need to revise the response date, please contact me at (301) 415-8474.

Sincerely,

/RA/

Travis L. Tate, Project Manager, Section 2
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure: Request for Additional Information

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION

APPENDIX K MEASUREMENT UNCERTAINTY RECOVERY - POWER UPRATE REQUEST

PILGRIM NUCLEAR POWER STATION

DOCKET NO 50-293

1. Item 2 (a) on page 1-5 of the General Electric Company report, NEDC-33050P, Revision 1, "Safety Analysis Report for Pilgrim Nuclear Power Station [PNPS] Thermal Power Optimization," stated the following:

"PNPS does not have an existing Crossflow [ultrasonic flow meter] UFM installation. It does have a crossbeam UFM system..."

In the first line on page 3 of 9 of Letter 2.02.096 dated November 6, 2002, you stated the following:

"During the past 4 years Pilgrim found the AMAG UFM to be extremely reliable.."

The staff-approved topical report, CENPD-397-P, dated May 2000, does not include the Crossbeam type UFM and the staff believes the Crossflow and Crossbeam UFM are two different types of UFM. If the AMAG UFM referenced in the second statement above is a Crossbeam UFM, please provide justification of how the historical data and experience of this Crossbeam UFM could be applied to determine allowed outage time (AOT) for the proposed Crossflow UFM. Please include a discussion of similarities and differences between the design of the Crossflow and Crossbeam UFM.

2. In your response to item 3 B. on page 3 of 9 of Letter 2.02.096 dated November 6, 2002, you stated "In the event the AOT is reached, PNPS will be required, by procedure, to reduce its power level to an alternate value that accounts for the uncertainty associated with the instrumentation then being used to measure power." In the event that both AMAG UFM are out of service, please provide the alternate power level to be allowed by procedure for the instrumentation available to be used for measuring power. If the reduced power level is greater than the current licensed power level of 1998 MWt, please provide a discussion of the technical basis for the proposed power level.
3. Section 10.3.1 of NEDC-33050P, Revision 1, addresses environmental qualification (EQ) for electrical equipment. In this section you indicate that power uprate issues related to EQ for electrical equipment are under review. Please provide the results of this review or provide a commitment to complete the review and incorporate any changes, as necessary, in accordance with applicable regulatory requirements prior to implementing the power uprate.

Enclosure

Pilgrim Nuclear Power Station

cc:

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U. S. Nuclear Regulatory Commission
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