

August 31, 2007

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALLS HELD ON  
AUGUST 23, 2007 AND AUGUST 27, 2007, BETWEEN THE U.S. NUCLEAR  
REGULATORY COMMISSION AND ENTERGY NUCLEAR OPERATIONS, INC.,  
CONCERNING REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO  
THE PILGRIM NUCLEAR POWER STATION, LICENSE RENEWAL  
APPLICATION

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Entergy Nuclear Operations, Inc., held telephone conference calls on August 23, 2007 and August 27, 2007, to discuss and clarify the staff's requests for additional information (RAIs) concerning the Pilgrim Nuclear Power Station, license renewal application. The telephone conference calls were useful in clarifying the intent of the staff's RAIs.

Enclosure 1 provides a listing of the participants and Enclosure 2 contain the RAI discussed with the applicant, including a brief description on the status.

The applicant had an opportunity to comment on this summary.

**/RA/**

Perry Buckberg, Project Manager  
License Renewal Branch A  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosures:  
As stated

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Perry Buckberg, Project Manager  
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DATE	08/31/07	08/30/07	08/31/07

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**TELEPHONE CONFERENCE CALL  
PILGRIM NUCLEAR POWER STATION  
LICENSE RENEWAL APPLICATION**

LIST OF PARTICIPANTS  
AUGUST 23, 2007 AND AUGUST 27, 2007

**PARTICIPANTS**

Pao-Tsin Kuo  
Kenneth Chang  
Louise Lund  
Perry Buckberg  
Peter Wen  
James Medoff  
Gary Young  
Steve Bethay  
Bryan Ford  
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Entergy

REQUESTS FOR ADDITIONAL INFORMATION  
PILGRIM NUCLEAR POWER STATION  
LICENSE RENEWAL APPLICATION

AUGUST 23, 2007 AND AUGUST 27, 2007

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Entergy Nuclear Operations, Inc. held telephone conference calls on August 23 and August 27, 2007, to discuss and clarify the following request for additional information (RAI) concerning the Pilgrim Nuclear Power Station, license renewal application.

**RAI # 4.3.3-1**

The license renewal application (LRA) for the Pilgrim Nuclear Power Station listed several reactor coolant pressure boundary components that did not receive a plant-specific metal fatigue analysis and cumulative usage factor (CUF). The applicant generated LRA Commitment No. 31 to address this issue. In the commitment, the applicant committed to take one of the following options or a combination of options to ensure that the time-limited aging analysis (TLAA) on environmentally-assisted fatigue (EAF) of these components, and any other Class 1 components requiring reanalysis for EAF, will be acceptable under 10 CFR 54.21(c)(1) for the period of extended operation:

Option (1): either refine the existing fatigue analyses or perform new fatigue analyses using at least one of four suboptions under this option.

Option (2): manage aging using an aging management program for the period of extended operation.

Option (3): repair or replace the impacted component prior to exceeding a CUF of 1.0.

In order to make a determination on the acceptability of the applicant's TLAA on EAF under the requirements of 10 CFR 54.21(c)(1), the staff requests that the applicant provide additional information on the option(s) that will be used for LRA Commitment No. 31. The applicant is requested to describe the methodology that will be used for the chosen option(s) in detail sufficient for staff review. Specifically, the staff requests that:

- A. If Option (1) is chosen, describe the methodology and the process that will be used to ensure that assumptions, transients, cycles, external loadings,  $F_{en}$  values, and analysis methods are valid for the refined or new fatigue analyses.

In the event the refined analyses performed under Option (1) result in CUFs greater than 1.0, describe the option(s) that may be used in addition to Option (1).

- B. If Option (2) is chosen, describe the AMP in sufficient detail with regard to inspection scope, inspection methods, inspection frequency, and inspection qualification techniques.

- C. If Option (3) is chosen, describe how the repair or replacement activity will be implemented in accordance with applicable repair or replacement requirements of the ASME Code Section XI.

**Discussion:** On August 23, 2007, the staff indicated that the response to this RAI requires clarification. The applicant concurred with the staff's assessment and discussed a new approach to answering the RAI. On August 27, 2007, the applicant described a new response to the RAI that would be submitted to the staff.

Letter to Entergy Nuclear Operations, from P. Buckbery dated August 31, 2007

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Pilgrim Nuclear Power Station

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Pilgrim Nuclear Power Station

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