

June 17, 2004

MEMORANDUM TO: James W. Clifford, Chief, Section 2
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Lee A. Licata, Project Manager, Section 2 /RA/
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: PILGRIM NUCLEAR POWER STATION - DRAFT REQUEST FOR
ADDITIONAL INFORMATION REGARDING IN-SERVICE TESTING
PROGRAM RELIEF REQUEST PR-03 (TAC NO. MB8773)

By letter dated December 6, 2002 supplemented by letters dated February 10, and June 2, 2004, Entergy Nuclear Operations, Inc. (Entergy or the licensee) submitted an in-service testing program relief request for PR-03, Revision 1, for the Pilgrim Nuclear Power Station. The proposed relief request would allow alternate testing to verify operational readiness of the High Pressure Coolant Injection pump.

The attached draft request for information (RAI) was transmitted on June 17, 2004 to Mr. Edward Sanchez of Entergy. This draft RAI was transmitted to facilitate the technical review being conducted by the office of Nuclear reactor Regulation and to support a conference call with the licensee to discuss the RAI.

Review of the RAI would allow the licensee to determine and agree upon a schedule to respond to the RAI. This memorandum and the attachment do not convey or represent a Nuclear Regulatory Commission staff position regarding the licensee's request.

Docket No. 50-293

Attachment: Draft RAI

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DRAFT REQUEST FOR ADDITIONAL INFORMATION

RELATED TO IN-SERVICE TESTING PROGRAM RELIEF REQUEST PR-03

PILGRIM STATION

DOCKET NO. 50-293

By letter dated December 6, 2002, supplemented by letters dated February 10, and June 2, 2004, Entergy Nuclear Operations, Inc. (the licensee) submitted an in-service testing program relief request for PR-03, Revision 1 for Pilgrim Nuclear Power Station. The proposed relief request would allow alternate testing to verify operational readiness of the high pressure coolant injection (HPCI) pump.

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the information the licensee provided in Attachment 1 to the letter dated June 2, 2004, and requests the following additional information to clarify the submittal:

1. Under BASIS FOR RELIEF, Introduction / Summary, last paragraph, the licensee states that "It has been concluded that there are no major vibrational concerns that would result in pump degradation or would prevent the HPCI pump from performing its design safety function for an extended period of operation."

The licensee is to:

- (a) Provide the collected data to support this statement.
 - (b) State the actual extended period of operation by which the pump is expected to perform its designed safety function.
 - (c) Provide input from the pump supplier stating these vibrations are acceptable for the required pump operation.
2. Under Technical Justification, third paragraph, provide the documentation to support the statement: "This displacement imposes negligible alternating stresses on the pump pedestal, housings, and connected piping."
3. Under Technical Justification, ninth paragraph, provide the documentation to support the statement: "The proposed Byron Jackson modifications, other than replacing the Booster Pump impeller, are generally very difficult to implement successfully."
4. The licensee is to document the conclusion reached that the expected result for changing from a four-vane to five-vane impeller would provide for only a modest decrease (but still above the Alert criteria) in the vibration being experienced. Additionally, if the information exists, the NRC staff requests that the licensee provide their estimated costs and time associated with changing to a five-vane impeller.