



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

February 18, 2014

Mr. John Dent, Jr.
Site Vice President
Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360-5508

SUBJECT: PILGRIM NUCLEAR POWER PLANT - REQUEST FOR ADDITIONAL
INFORMATION REGARDING SAFETY LIMITS TO RESOLVE PRESSURE
REGULATOR FAIL-OPEN TRANSIENT LICENSE AMENDMENT REQUEST
(TAC NO. MF1382)

Dear Mr. Dent:

By letter dated April 5, 2013, Entergy Nuclear Operations, Inc. submitted a license amendment request (LAR) to reduce the reactor dome pressure from 785 pounds per square inch gauge (psig) to 685 psig in Technical Specification (TS) Safety Limits 2.1.1 and 2.1.2, and associated TS bases to resolve the potential to violate these limits during a pressure regulator failure open transient for Pilgrim Nuclear Power Station.

The Nuclear Regulatory Commission (NRC) 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). Per your request, the NRC staff is requesting a response to the RAI within 60 days of February 4, 2014.

If you have any questions regarding this issue, please contact me at (301) 415-1016.

Sincerely,

A handwritten signature in black ink, appearing to read "Nadiyah S. Morgan".

Nadiyah S. Morgan, Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION
REGARDING PRESSURE REGULATOR FAILURE-OPEN TRANSIENT
LICENSE AMENDMENT REQUEST
ENTERGY NUCLEAR GENERATION COMPANY
ENTERGY NUCLEAR OPERATIONS, INC.
PILGRIM NUCLEAR POWER STATION
DOCKET NO. 50-293

By letter dated April 5, 2013, Entergy Nuclear Operations, Inc. submitted a proposed license amendment request (LAR) that would reduce the reactor dome pressure from 785 pound per square inch gauge (psig) to 685 psig in Technical Specifications (TSs) 2.1.1 and 2.1.2 Safety Limits, and associated TS bases for Pilgrim Nuclear Power Station.

In order to complete its review, the Nuclear Regulatory Commission staff requests further information on the following items:

1. Please justify that the data used for development and verification of the GEXL critical power correlation are still valid for the proposed lower pressure range to 685 psig.
2. Provide a detailed description of the analytic analysis for the pressure regulator fail open Anticipated Operational Occurrence transient to support the proposed LAR, including a sequence of events in relation to the set point for turbine control valves, safety relief valves, and main steam isolation valves to justify that the event causes the Critical Power Ratio to increase.

Enclosure

February 18, 2014

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Sincerely,
/ra/

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Plant Licensing Branch I-1
Division of Operating Reactor Licensing
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*See dated memo

**Via email

OFFICE	LPLI-1/PM	LPLI-1/LA	DSS/SRXB	LPLI-1/BC
NAME	NMorgan	KGoldstein	CJackson	BBeasley
DATE	02/11/2014	02/11/2014**	1/30/2013*	02/18/2014

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