

March 16, 2004

Mr. Joseph E. Venable
Vice President Operations
Entergy Operations, Inc.
17265 River Road
Killona, LA 70066-0751

SUBJECT: WATERFORD STEAM ELECTRIC STATION, UNIT 3 (WATERFORD 3) -
REQUEST FOR ADDITIONAL INFORMATION RELATED TO REVISION TO
FACILITY OPERATING LICENSE AND TECHNICAL SPECIFICATIONS -
EXTENDED POWER UPRATE REQUEST (TAC NO. MC1355)

Dear Mr. Venable:

By letter dated November 13, 2003, as supplemented by letters dated January 29 and March 4, 2004, Entergy Operations, Inc. proposed revisions to the Waterford 3 operating license and Technical Specifications which would allow an increase in the rated thermal power from 3,441 megawatts thermal (MWt) to 3,716 MWt.

After reviewing your request, the Nuclear Regulatory Commission staff has determined that additional information is required to complete the review. We discussed this information with your staff by telephone and they agreed to provide the additional information requested in the enclosure within 30 days of receipt of this letter.

If you have any questions, please call me at (301) 415-1480.

Sincerely,

/RA/

N. Kalyanam, Project Manager, Section 1
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-382

Enclosure: Request for Additional Information

cc w/encl: See next page

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* See previous concurrence ** No change from original RAI

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REQUEST FOR ADDITIONAL INFORMATION

ENTERGY OPERATIONS, INC.

WATERFORD STEAM ELECTRIC STATION, UNIT 3

DOCKET NO. 50-382

Human Performance

1. With regard to operator actions, the submittal indicates that the extended power uprate (EPU) has the general effect of reducing the time available for the operators to complete recovery actions. Table 2.11-1 in the submittal provides a comprehensive list of post-initiator operator actions that would have changed available times as result of the power uprate, including several events with significant decreases in time available. Specifically, for events EHFALPABSP and HHFALNABSP, the existing time available is 60 minutes, and the EPU time available would be decreased to 14 minutes. Additionally, for the events EHFALPABMP and HHFALNABMP, the existing time available is 40 minutes, and the EPU time available would be limited to only 2.83 minutes, with a note explaining that "the 2.83 minutes time limit does not include the effect of the safety injection tanks, which would extend this time." Please provide the basis (e.g., demonstration) for determining that all operating crews will be able to successfully accomplish the required tasks in the reduced times available. In the response, please also include a description of the times required to complete the necessary actions. Additionally, please explain what is meant by the note to events EHFALPABMP and HHFALNABMP regarding the effect of the safety injection tanks on time available, including the length of the time extension, and again provide a basis (e.g., demonstration) for determining that all operating crews will be able to successfully accomplish the required tasks in the times available.

Electrical

2. Address the compensatory measures that the licensee would take to compensate for the depletion of the nuclear unit megavolt-amperes resistive capability on a grid-wide basis.

Environmental Assessment

3. Provide the analysis that supports the conclusion made in Section 5.1 that the EPU does not require any change to the State requirements under the Clean Water Act. Also, describe any changes in chemical usage resulting from the proposed EPU and the effects this will have on the discharge through the National Pollutant Discharge Elimination System-permitted outfalls to the Mississippi River.
4. Will the operational characteristics of the cooling towers change in any way as a result of the EPU? If the changes result in increased noise levels, please provide the noise abatement arrangements, if any.
5. Is there any designated critical habitat for threatened, endangered species in the vicinity of the river discharge? Please provide a basis for the statement in Section 5.2.5, which

states that there are no known Federally-protected species in the vicinity of the site, and how this determination was made.

6. Describe any changes in the number of personnel required in both normal operations and for outages to implement the proposed EPU.
7. As a result of the EPU, there will be an increase in the amount of current carried in the transmission lines. Discuss the electric shock hazards associated with the increased current. Were the transmission lines designed and constructed in accordance with the applicable shock prevention provisions of the National Electric Safety Code? If not, provide an assessment of the impact of the proposed action on the potential shock hazard from the transmission lines.
8. Describe any changes to the secondary system as a result of the proposed EPU and what effects this will have on water use and generation of solid waste.
9. Describe the environmental impacts associated with the design-basis accidents discussed in the latest version of NUREG-0800, "Standard Review Plan," the most limiting accident, and how the EPU will affect the accident analyses.

Waterford Steam Electric Station, Unit 3

cc:

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