



Entergy Nuclear Northeast
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November 22, 2005
JAFP-05-0179

T.A. Sullivan
Site Vice President - JAF

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

**Subject: James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
Response to Request for Additional Information (RAI) Regarding
Amendment Application to Revise Technical Specifications on DC
Electrical System Requirements (TAC No. MC7204)**

References:

1. Entergy Nuclear Operations, Inc. letter to USNRC (JAFP-05-0082), Proposed Technical Specification Amendment to DC Electrical System Requirements, dated April 27, 2005.
2. USNRC letter to Entergy Nuclear Operations, Inc., Request for Additional Information (RAI) Regarding Amendment Application to Revise Technical Specifications on DC Electrical System Requirements, dated October 27, 2005 (TAC No. MC7204).

Dear Sir:

By letter dated April 27, 2005 (Reference 1), Entergy Nuclear Operations, Inc. (ENO) proposed to amend the Technical Specifications (TS) for the James A. FitzPatrick Nuclear Power Plant (JAFNPP) by revising TS 3.8.4, 3.8.5 and 3.8.6, all of which deal with the DC electrical system. These changes are based on TS Task Force (TSTF) Change Traveler TSTF-360 (Revision 1) that has been approved generically for the boiling water reactor (BWR) Standard TS, NUREG-1433 (BWR/4).

ENO received a request for additional information (RAI) from the NRC (Reference 2). Attachment 1 to this letter provides the response to the RAI questions and Attachment 2 to this letter identifies a new commitment.

This response does not change the scope or conclusions in the original application, nor does it change the No Significant Hazards Consideration.

Should you have any questions or comments concerning this submittal, please contact Mr. James Costedio at (315) 349-6358.

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I declare under penalty of perjury that the foregoing is true and correct.

Executed on this the 22ND day of NOVEMBER 2005.

Sincerely,


T. A. Sullivan
Site Vice President

Attachments:

1. Response to Request for Additional Information
2. List of Regulatory Commitments

Enclosures:

1. Calculation JAF-CALC-ELEC-02609, "125VDC "A" Station Battery Sizing & Voltage Drop" revision 2.
2. Calculation JAF-CALC-ELEC-02610, "125VDC Station Battery "B" Sizing & Voltage Drop" revision 2.

cc: Regional Administrator, Region I (w/out encl)
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Attachment 1 to JAFP-05-0179
Entergy Nuclear Operations, Inc. – FitzPatrick
Docket No. 50-333
Response to Request for Additional Information (RAI)

RAI 1

“Regarding your request to extend the battery charger allowed outage time (AOT) (limiting condition for operation (LCO) 3.8.4 Required ACTION A.3) to 7 days. The proposed TSs Bases for this Required ACTION state the following:

Required Action A.3 limits the restoration time for the inoperable battery charger to 7 days. This action is applicable if an alternate means of restoring battery terminal voltage to greater than or equal to the minimum established float voltage has been used (e.g., balance of plant non-Class 1E battery charger). The 7 day Completion Time reflects a reasonable time to effect restoration of the qualified battery charger to Operable status.

Describe the 'alternate means' that Entergy is crediting for this extended AOT. Additionally, the NRC staff needs to be assured that this 'alternate means' for restoring battery terminal voltage to greater than or equal to the minimum established float voltage is supported by a back-up Class 1E or non-Class 1E power source (e.g., Class 1E diesel generator). Furthermore, the 'alternate means' will need to be addressed in the JAFNPP Updated Final Safety Analysis Report since it would be credited for the 7-day AOT allowance.

The NRC staff's concern relates to a loss of offsite power or station blackout event. Without an 'alternate means' that is capable of being supplied by a Class 1E or non-Class 1E back-up power source, the affected train's battery capacity could drain to the point where the battery may not have sufficient remaining capacity to operate the supply breakers to restore power to the 4160 V safety-related buses.”

RESPONSE

Entergy is crediting the use of an appropriately sized temporary battery charger for the extended AOT. As stated in the No Significant Hazards Consideration in the proposed Technical Specification amendment, the temporary battery charger will be powered by Class 1E power. This 'alternate means' will be described in the Updated Final Safety Analysis Report (UFSAR) as committed to in Attachment 2 of this letter.

Attachment 1 to JAFP-05-0179
Entergy Nuclear Operations, Inc. – FitzPatrick
Docket No. 50-333
Response to Request for Additional Information (RAI)

RAI 2

“Please provide the battery sizing calculation that shows the amount of total margin above the sizing requirements of Institute of Electrical and Electronics Engineers (IEEE) Standard No. 485, “IEEE Recommended Practice for Sizing Lead-Acid Batteries for Stationary Applications”.”

RESPONSE

Calculation JAF-CALC-ELEC-02609 “125VDC “A” Station Battery Sizing & Voltage Drop” revision 2, and calculation JAF-CALC-ELEC-02610 “125VDC Station Battery “B” Sizing & Voltage Drop” revision 2 are provided with this correspondence (Enclosures 1 & 2).

Attachment 2 to JAFP-05-0179
Entergy Nuclear Operations, Inc. – FitzPatrick
Docket No. 50-333
List of Regulatory Commitments

LIST OF REGULATORY COMMITMENTS

The following table identifies an action committed to by JAFNPP in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments. Please direct questions regarding this commitment to Mr. James Costedio at (315) 349-6358.

REGULATORY COMMITMENTS	DUE DATE
Revise the JAFNPP UFSAR to describe the alternate means (temporary batter charger) that is credited for the extended allowed outage time (AOT).	60 days after issue of amendment