

July 23, 2007

Mr. Michael A. Balduzzi  
Sr. Vice President & COO  
Regional Operations, NE  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

SUBJECT: INDIAN POINT NUCLEAR GENERATING UNIT NO. 2 - REQUEST FOR  
ADDITIONAL INFORMATION REGARDING AMENDMENT APPLICATION TO  
MODIFY TECHNICAL SPECIFICATIONS FOR THE DIESEL GENERATOR  
ENDURANCE TEST (TAC NO. MD4923)

Dear Mr. Balduzzi:

On March 22, 2007, Entergy Nuclear Operations, Inc. (Entergy), submitted an application for a proposed amendment for Indian Point Nuclear Generating Unit No. 2 which would revise the test acceptance criteria for the endurance test for the emergency diesel generators, Technical Specification Surveillance Requirement 3.8.1.10.

The Nuclear Regulatory Commission 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). In an email dated July 10, 2007, the Entergy staff indicated that a response to the RAI would be provided within 45 days of the date of this letter.

Please contact me at (301) 415-2901 if you have any questions on this issue.

Sincerely,

*/RA/*

John P. Boska, Senior Project Manager  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-247

Enclosure:  
RAI

cc w/encl: See next page

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RAI

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\*See memo dated 6/19/07

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Indian Point Nuclear Generating Unit No. 2

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Indian Point Nuclear Generating Unit No. 2

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REQUEST FOR ADDITIONAL INFORMATION  
REGARDING AMENDMENT APPLICATION TO MODIFY TECHNICAL SPECIFICATIONS  
FOR THE DIESEL GENERATOR ENDURANCE TEST  
ENTERGY NUCLEAR OPERATIONS, INC.  
INDIAN POINT NUCLEAR GENERATING UNIT NO. 2  
DOCKET NO. 50-247

By letter to the Nuclear Regulatory Commission (NRC) dated March 22, 2007, (Agencywide Documents Access Management System Accession No. ML070890307), Entergy Nuclear Operations, Inc. (the licensee) requested an amendment to the Indian Point Nuclear Generating Unit No. 2 (IP2) Technical Specifications (TS) Surveillance Requirement (SR) related to test acceptance criteria for emergency diesel generator (EDG) testing. The NRC staff is reviewing the submittal and has the following questions:

1. Define the IP2 EDG ratings (continuous, 2000-hour, 2-hour, and ½-hour) and time constraints for operating at those ratings, similar to how the Indian Point Nuclear Generating Unit No. 3 (IP3) TS Bases define the ratings and time constraints for the Unit 3 EDGs (Revision 3, page B 3.8.1-4). Explain any discrepancies between the IP2 and IP3 definitions of the time constraints for operating at the load values of the ratings.
2. Provide the basis for why there is a sequential limitation whereby it is unacceptable to operate the IP2 EDGs for 2 hours at 2100 kW followed by operating at 2300 kW for ½-hour, and why any other combination of the IP2 EDG ratings is acceptable. Also provide the technical basis and acceptance (and its basis) from the EDG vendor for operating the EDGs for two consecutive overloading periods (30 minutes at the 30-minute rating and then 2 hours at the 2-hour rating) without adversely affecting EDG design function capability and without requiring additional maintenance and/or inspection after the first overload period prior to operating at the second overload period. Provide the details of the EDG maintenance that is required as a result of operating the EDGs at the short-term ratings and as described in the license amendment request. This response needs to include the generator/excitation system capability as well as the engine's capability.
3. Provide the EDG loading calculation which establishes the KVAR, kilowatt, and power factor values, and the load profile (load values and duration of those values) until steady state loading conditions (no expected increases in loading) are reached after initiation of the worst-case design-basis event for each of the IP2 EDGs.
4. Provide the bases that confirm the IP2 EDGs are capable of handling the worst-case load profile after considering derating of the EDGs, if any, due to EDG loading, engine coolant outlet temperature, air intake (combustion air) temperature, or other potential factors that may result in derating of the EDGs.

Enclosure

5. Describe IP2's commitments to (and exceptions taken to) applicable guidance and standards regarding EDG design and testing, such as NRC Regulatory Guides and IEEE standards. Include the revision numbers of the applicable guidance documents and standards.
6. Provide the applicable marked-up version of the IP2 TSs Bases pages.