



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

November 21, 2008

Mr. Michael W. Rencheck
Senior Vice President and
Chief Nuclear Officer
Indiana Michigan Power Company
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106

**SUBJECT: D. C. COOK NUCLEAR PLANT, UNITS 1 AND 2 – REQUEST FOR
ADDITIONAL INFORMATION (SECOND ROUND) REGARDING TECHNICAL
SPECIFICATION CHANGE RELATED TO DIESEL GENERATOR MAXIMUM
STEADY STATE FREQUENCY (TAC NOS. MD8773 and MD8774)**

Dear Mr. Rencheck:

By application dated June 27, 2007 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML071910238), Indian Michigan Power Company (I&M) (the licensee) requested changes to the Donald C. Cook Nuclear Plant, Units 1 and 2, Technical Specifications (TS), Section 3.8.1, related to the maximum diesel generator (DG) steady state frequency. In response to U.S. Nuclear Regulatory Commission (NRC) staff requests for additional information (RAI), the licensee provided supplemental information in letters dated April 28, 2008 (ADAMS Accession No. ML081280649) and September 4, 2008 (ADAMS Accession No. ML082600469).

The NRC staff reviewed the information provided in the September 4, 2008, letter, in which I&M proposed additional changes to TS Section 3.8.1. Based on the review, the NRC staff requested additional information regarding the proposed change to the maximum DG frequency allowed within 2 seconds following rejection of the single largest post-accident load (surveillance requirement 3.8.1.10.c).

The draft RAI was sent to your staff on November 13, 2008 (ADAMS Accession No. ML083250175). On November 17, 2008, NRC and I&M staff discussed the draft RAIs and agreed that they could be formally issued. Accordingly, the finalized RAIs are issued as an enclosure to this letter.

M. Rencheck

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Please respond within 30 days of receipt of this letter. Feel free to contact me if you need clarification of this RAI.

Sincerely,

A handwritten signature in black ink, appearing to read "T. A. Beltz", followed by the word "For" in a cursive script.

Terry A. Beltz, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

Enclosure:
As stated

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REQUEST FOR ADDITIONAL INFORMATION

D.C. COOK NUCLEAR PLANT, UNITS 1 AND 2

TECHNICAL SPECIFICATION CHANGE RELATED TO

DIESEL GENERATOR (DG) MAXIMUM STEADY STATE FREQUENCY

In supplemental information dated September 4, 2008 (ADAMS Accession No. ML082600469), the licensee proposed change to the maximum DG frequency allowed within 2 seconds following rejection of the single largest post-accident load in the surveillance requirement (SR) 3.8.1.10.c from 61.2 hertz (Hz) to 60.5 Hz.

In the Technical Specification (TS) Bases SR 3.8.1.10, the licensee stated that 2 seconds specified is equal to approximately 60 percent of the 3.49 seconds load sequence interval associated with sequencing of the largest load. According to the Updated Final Safety Analysis Report, Section 8.4, the largest sequenced load is the Centrifugal Charging Pump (600 hp) which is sequenced at 13 seconds; i.e., 3 seconds after the first block load connection at 10 seconds. The next load is sequenced at 17 seconds.

- (1) Please explain how the 2 seconds specified is equal to approximately 60 percent of the load sequence interval associated with sequencing of the largest load.
- (2) Please explain the basis for the 3.49 second sequence interval which is stated in the TS Bases.

ENCLOSURE

November 21, 2008

M. Rencheck

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Please respond within 30 days of receipt of this letter. Feel free to contact me if you need clarification of this RAI.

Sincerely,

/RA/

Terry A. Beltz, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

Enclosure:
As stated

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RidsNrrDeEeeb (G. Wilson)

RidsNrrDeEeeb (R. Mathew)

ADAMS Accession No.: **ML083250488**

* RAI transmitted by letter dated 11/07/2008 (**ML083120562**)

OFFICE	LPL3-1\PM	LPL3-1/LA	EEEE/BC *	LPL3-1/BC
NAME	TBeltz <i>TBeltz</i>	THarris <i>THarris</i>	GWilson	LJames <i>LJames</i>
DATE	11/21/08	11/21/08	11/07/08	11/21/08

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