

December 21, 2004

Mr. Mano K. Nazar  
Senior Vice President and Chief Nuclear Officer  
Indiana Michigan Power Company  
One Cook Place  
Bridgman, MI 49106

SUBJECT: SAFETY EVALUATION REPORT (SER) WITH OPEN ITEMS RELATED TO  
THE LICENSE RENEWAL OF DONALD C. COOK NUCLEAR PLANT, UNITS 1  
AND 2

Dear Mr. Nazar:

By letter dated October 31, 2003, Indiana Michigan Power Company (I&M or the applicant) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for the renewal of the Donald C. Cook Nuclear Plant (CNP), Units 1 and 2, operating licenses for up to an additional 20 years. The license renewal application (LRA) was submitted pursuant to Title 10 of the *Code of Federal Regulations* Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants." The NRC staff determined that the LRA was complete and acceptable for docketing on December 10, 2003.

The NRC staff has reviewed the LRA and has developed the enclosed "Safety Evaluation Report With Open Items related to the License Renewal of the Donald C. Cook Nuclear Plant, Units 1 and 2," herein after referred to as the Safety Evaluation Report (SER). This SER reflects the status of the staff's review of the LRA, requests for additional information (RAIs), the applicant's responses to the NRC staff's RAIs and other questions related to the LRA through November 18, 2004, unless otherwise noted. Issuance of the enclosed SER is an important milestone for both the applicant and the staff.

The NRC staff has identified open and confirmatory items in its review that must be resolved before it can make a final determination on the application. The open items are summarized in Section 1.5 of the SER. Section 1.6 of the SER includes a listing of confirmatory items with an explanation of the information required to satisfactorily resolve the issue. In order to close both of these items, the staff needs the additional information, as identified in the SER.

In accordance with the schedule for completing the review of the LRA, the applicant is requested to review the enclosed SER, verify its accuracy, and provide comments to the NRC staff by February 16, 2005. The NRC staff plans to review the current content and format of the SER for further improvement while incorporating the applicant's comments. A complete and revised SER will then be issued by May 30, 2005.

M. Nazar

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The staff is committed to completing the review of the SER in a timely manner. If you have any questions regarding this matter, please contact the license renewal project manager, Mr. Jonathan G. Rowley, at 301-415-4053 or e-mail [JGR@nrc.gov](mailto:JGR@nrc.gov).

Sincerely,  
/RA/

Pao-Tsin Kuo, Program Director  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

Enclosure: As stated

cc w/encls: See next page

The staff is committed to completing the review of the CNP SER in a timely manner. If you have any questions regarding this matter, please contact the license renewal project manager, Mr. Jonathan G. Rowley, at 301-415-4053 or e-mail [JGR@nrc.gov](mailto:JGR@nrc.gov).

Sincerely,  
/RA/  
Pao-Tsin Kuo, Program Director  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

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1. Ltr. To M. Nazar w/Svc. List: **ML043570535**
2. Safety Evaluation Report w/Open Items Related to the License Renewal of the Donald C. Cook Nuclear Plant, Units 1 and 2: **ML043570539**
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RLEP RF

J. Rowley, Project Manager

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