



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

November 14, 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: DONALD C. COOK NUCLEAR PLANT, UNIT 2 – ACCEPTANCE REVIEW RE:  
RELIEF REQUEST (ISIR-29) FOR USE OF RISK-INFORMED EXTENSION OF  
THE REACTOR PRESSURE VESSEL INSERVICE INSPECTION (ISI)  
INTERVAL FROM 10 TO 20 YEARS (TAC NO. MD9934)

Dear Mr. Rencheck:

By letter dated October 9, 2008 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML082980354), Indiana Michigan Power Company (I&M) submitted a relief request for the Donald C. Cook Nuclear Plant, Unit 2. The proposed relief request (ISIR-29) pertains to the use of a risk-informed extension of the reactor pressure vessel ISI interval from 10 to 20 years.

The U.S. Nuclear Regulatory Commission (NRC) approved topical report WCAP-6168-NP-A, Revision 2, "Risk-Informed Extension of the Reactor Vessel In-Service Inspection Interval," dated May 8, 2008 (ADAMS Accession No. ML081060051). The WCAP provides for extension of the ISI interval for certain pressure retaining welds in the reactor vessel from 10 to 20 years.

Pursuant to Sections 50.55a(a)(3)(i) and 50.55a(a)(3)(ii) of Title 10 of the *Code of Federal Regulations*, the applicant shall demonstrate that the proposed alternatives would provide an acceptable level of quality and safety, or that compliance with the specified requirements of Section 50.55a would result in hardship or unusual difficulty without a compensating increase in the level of quality or safety.

The purpose of this letter is to provide the final results of the NRC staff's acceptance review of this request. The acceptance review was performed to determine if there is sufficient technical information in scope and depth to allow the NRC staff to complete its detailed technical review and make an independent assessment regarding the acceptability of the proposed change. The acceptance review is also intended to identify whether the application has any readily apparent information insufficiencies in its characterization of the regulatory requirements or the licensing basis of the plant.

The NRC staff has reviewed your application and concluded that it does provide technical information in sufficient detail to enable the staff to proceed with its detailed technical review and make an independent assessment regarding the acceptability of the proposed amendment in terms of regulatory requirements and the protection of public health and safety and the environment. If additional information is needed for the staff to complete its technical review,

M. Rencheck

- 2 -

you will be advised by separate correspondence. Should you have any questions regarding this review, please contact me at (301) 415-3049.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry A. Beltz", with a long horizontal flourish extending to the right.

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

Docket Nos. 50-316

cc: Distribution via ListServ

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M. Rencheck

- 2 -

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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. 50-316

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NRR-106

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