



**INDIANA  
MICHIGAN  
POWER**

*A unit of American Electric Power*

**Indiana Michigan Power**  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
AEP.com

June 3, 2005

AEP:NRC:5054-07  
10 CFR 50.54

Docket No. 50-315

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
11555 Rockville Pike  
Rockville, MD, 20852

Donald C. Cook Nuclear Plant Unit 1  
NUCLEAR REGULATORY COMMISSION BULLETIN 2003-02:  
LEAKAGE FROM REACTOR PRESSURE VESSEL LOWER HEAD  
PENETRATIONS AND REACTOR COOLANT PRESSURE BOUNDARY  
INTEGRITY – UNIT 1 CYCLE 20 INSPECTION RESULTS

Reference: Letter from R. P. Powers, Indiana Michigan Power Company, to U. S. Nuclear Regulatory Commission Document Control Desk, "Nuclear Regulatory Commission Bulletin 2003-02: Leakage from Reactor Pressure Vessel Lower Head Penetrations and Reactor Coolant Pressure Boundary Integrity Thirty-day Response," AEP:NRC:3054-14, dated September 17, 2003.

During the Unit 1, Cycle 20 refueling outage that ended April, 26, 2005, Indiana Michigan Power Company (I&M), the licensee for the Donald C. Cook Nuclear Plant, performed a visual inspection of the bottom mounted instrumentation (BMI) nozzle penetrations in accordance with Nuclear Regulatory Commission Bulletin 2003-02, "Leakage from Reactor Pressure Vessel Lower Head Penetrations and Reactor Coolant Pressure Boundary Integrity." The inspection was completed in accordance with I&M's commitment that was made in the referenced letter.

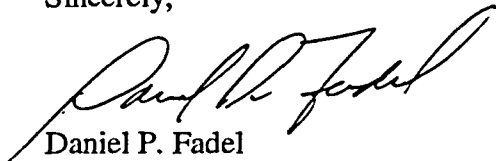
The inspection was conducted by I&M personnel qualified as American Society of Mechanical Engineers (ASME) Code, Section XI, Level 2 examiners. A pole-mounted alternating current powered camera was used to perform an ASME Code, Section XI, VT-2 examination to ASME Code, Section XI, VT-3 examination criteria on all 58 Unit 1 reactor pressure vessel (RPV) BMI nozzle penetrations, including 360 degrees around each BMI penetration. No boric acid deposits were found at any RPV BMI nozzle penetration or anywhere on the RPV bottom head surface area. No boric acid residue sampling or analysis was required or performed. The as-found condition of the Unit 1 RPV bottom head was identical to the as-left condition following the bottom head cleaning performed during the Unit 1 Cycle 19 refueling outage. No indications of through-wall leakage were found during the Unit 1 Cycle 20 RPV BMI inspection. The bottom two sections of

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insulation were lowered to allow unobstructed access to all penetrations and the membrane areas of the lower reactor vessel. The inspection results were saved to a computer drive as video clips.

This letter contains no new commitments. Should you have any questions, please contact Mr. John A. Zwolinski, Director of Safety Assurance, at (269) 466-2428.

Sincerely,

A handwritten signature in black ink, appearing to read "Daniel P. Fadel", is written over the typed name.

Daniel P. Fadel  
Engineering Vice President

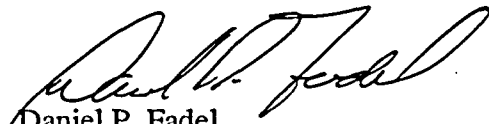
RGV/rdw

c: J. L. Caldwell, NRC Region III  
K. D. Curry, Ft. Wayne AEP  
J. T. King, MPSC  
C. F. Lyon - NRC Washington, DC  
MDEQ - WHMD/HWRPS  
NRC Resident Inspector

**AFFIRMATION**

I, Daniel P. Fadel, being duly sworn, state that I am Engineering Vice President of Indiana Michigan Power Company (I&M), that I am authorized to sign and file this request with the Nuclear Regulatory Commission on behalf of I&M, and that the statements made and the matters set forth herein pertaining to I&M are true and correct to the best of my knowledge, information, and belief.

Indiana Michigan Power Company

  
Daniel P. Fadel  
Engineering Vice President

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 3rd DAY OF June, 2005

  
Notary Public

My Commission Expires 12/10/2007

