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January 26, 2004

AEP:NRC:4054
10 CFR 50.4

Docket Nos: 50-315

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop O-P1-17
Washington, DC 20555-0001

Donald C. Cook Nuclear Plant Unit 1
UNIT 1 VESSEL HEAD INSPECTION RESULTS

Reference: U. S. Nuclear Regulatory Commission Order EA-03-009,
"Issuance of Order Establishing Interim Inspection Requirements
for Reactor Pressure Vessel Heads at Pressurized Water
Reactors," dated February 11, 2003

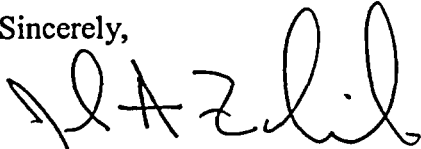
This letter provides information pertaining to reactor pressure vessel (RPV) head inspections performed at Donald C. Cook Nuclear Plant Unit 1. Submittal of this information is required by the referenced Nuclear Regulatory Commission Order. The referenced order imposed enhanced requirements for inspection of pressurized water RPV heads and related penetration nozzles. In accordance with Section IV.C of the order, Indiana Michigan Power Company (I&M) conducted a bare-metal visual examination of the upper surface of the RPV head during the refueling outage that ended November 26, 2003. In accordance with Section IV.E of the order, I&M hereby submits a report of these examinations. The attachment to this letter provides the report of the bare metal visual examination of the RPV head upper surface.

The visual inspections performed in accordance with Section IV.D of the order during the Unit 1 refueling outage did not identify any leaks or boron deposits from pressure retaining components on or above the RPV head. Therefore, no report regarding that inspection is required by Section IV.E of the order.

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This letter contains no new commitments. Should you have any questions, please contact Mr. Brian D. Mann, Acting Manager of Regulatory Affairs, at (269) 697-5806.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. A. Zwolinski', written in a cursive style.

John A. Zwolinski
Director of Design Engineering and Regulatory Affairs

DB/rdw

Attachment:

- c: Director, Office of Nuclear Reactor Regulation
- J. L. Caldwell, NRC Region III
- K. D. Curry, Ft. Wayne AEP, w/o attachment
- J. T. King, MPSC, w/o attachment
- MDEQ – WHMD/HWRPS, w/o attachment
- NRC Resident Inspector
- J. F. Stang, Jr., NRC Washington DC

ATTACHMENT TO AEP:NRC:4054

SUMMARY REPORT
BARE-METAL VISUAL EXAMINATION OF THE DONALD C. COOK NUCLEAR PLANT
UNIT 1 REACTOR PRESSURE VESSEL HEAD

A bare-metal visual examination of the Donald C. Cook Nuclear Plant Unit 1 reactor pressure vessel (RPV) head was conducted during the refueling outage that ended November 26, 2003. This inspection was required by Section IV.C(2)(a) of Nuclear Regulatory Commission Order EA-03-009, "Issuance of Order Establishing Interim Inspection Requirements for Reactor Pressure Vessel Heads at Pressurized Water Reactors," dated February 11, 2003. The examination was conducted by contractor personnel in conjunction with Performance Verification personnel qualified as VT-2 examiners. A remotely operated crawler and manual guide probes, both equipped with a video camera, were used to examine 360 degrees around each of the 80 RPV head penetrations. A bare-metal visual examination of the sections of RPV head between penetrations was also performed. The inspection results for all penetrations were categorized as satisfactory.

The RPV head was clean, with minor debris (easily removed with compressed air), and dry, with no evidence of wastage, leakage, or boron noticed in any area.