



November 14, 2003

AEP:NRC:3455

Docket No: 50-316

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
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Washington, DC 20555-0001

Donald C. Cook Nuclear Plant Unit 1  
STEAM GENERATOR TUBE INSERVICE INSPECTION REPORT

Pursuant to the requirements of the Donald C. Cook Nuclear Plant (CNP) Unit 1 Technical Specification 4.4.5.5.a, Indiana Michigan Power Company is submitting this letter to notify the Nuclear Regulatory Commission of the results of the Unit 1 Cycle 19 steam generator inspection.

The CNP Steam Generator Management Program (SGMP) has been developed to implement the requirements of CNP Technical Specifications (TS). The overall objective of the SGMP is to ensure structural integrity of the steam generator tubing such that accident-induced and operational leakage is maintained within regulatory limits. The SGMP contains various fundamental elements, which form the basis of the program. These elements present a balance of prevention, inspection, evaluation, repair and leakage monitoring measures, which interact to ensure that overall steam generator integrity is maintained. The program revolves around well designed and maintained replacement steam generators that have enhanced design features and materials to resist tube degradation and a thorough inspection program to monitor steam generator conditions.

In December 2000, CNP replaced all four Unit 1 original steam generators with Babcock & Wilcox Model 51R steam generators. The replacement steam generators consist of a new lower assembly used in conjunction with refurbished Westinghouse steam domes and Babcock & Wilcox moisture separator units. Each of the four replacement steam generators received a 100 percent general-purpose (bobbin coil) pre-service examination during the final phases of the steam generator fabrication process in 1999. This inspection identified no degraded or defective tubes.

The operational baseline was completed at the conclusion of first operating cycle, Cycle 17, in May 2002, for the replacement steam generators. This examination again consisted of a 100 percent full-length bobbin coil examination

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of each of the four steam generators. This examination was supplemented by rotating coil inspection of selected bobbin coil indications for diagnostic purposes. No degraded or defective tubes were identified during this examination and the steam generators were determined to be in degradation category C-1 as defined by plant Technical Specification 4.4.5.2, i.e., less than five percent of the total tubes inspected are degraded and none were defective.

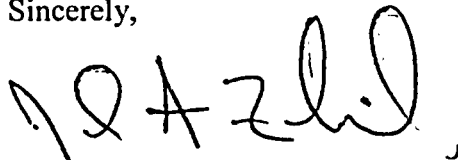
Based upon this classification and the associated inspection frequency requirements of Technical Specification 4.4.5.3, which requires the next examination to be completed within not less than 12 nor more than 24 calendar months, the current examination was performed at the conclusion of Cycle 18, in October 2003.

The October 2003 examination consisted of an eddy current inspection of one of the four Unit 1 steam generators, Steam Generator 14. The inspection was a full-length examination of twenty percent of the steam generator tubes using a bobbin coil probe, which exceeds the twelve percent minimum requirements of TS Table 4.4-2 when one steam generator is being inspected. In addition, portions of these tubes were examined using a rotating coil for enhanced characterization. No defective or degraded tubes were identified during these examinations and as a result, no tubes were plugged.

Based upon these results, the CNP Unit 1 steam generators are considered to be in degradation Category C-1. As this inspection completes the second of two consecutive inspections with a C-1 result, the Unit 1 steam generators now fall under the provisions of Technical Specification 4.4.5.3.a which allows the inspection interval to be extended to a maximum of once per 40 months. Therefore, the next scheduled examination will be performed no later than September 2006.

There are no new commitments in this submittal. 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', with a stylized flourish at the end.

John A. Zwolinski  
Director of Design Engineering and Regulatory Affairs

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