

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No.: 50-315/91003(DRS)

Docket No.: 50-315

License No.: DPR-58

Licensee: Indiana Michigan Power Company
1 Riverside Plaza
Columbus, OH 43216

Facility Name: D. C. Cook Nuclear Plant, Unit 1

Inspection At: D. C. Cook Site, Bridgman, MI 49127

Inspection Conducted: February 6-7, 1991

Inspector: *D. H. Danielson*
for K. D. Ward

2/12/91
Date

Approved By: *D. H. Danielson*
D. H. Danielson, Chief
Materials and Processes Section

2/12/91
Date

Inspection Summary

Inspection on February 6-7, 1991 (Report No. 50-315/91003(DRS))

Areas Inspected: Routine unannounced safety inspection of inservice inspection (ISI) activities including review of program (73051), procedures (73052), work activities (73753), and data review (73755).

Results: No violations or deviations were identified. Based on the results of the inspection, the NRC inspector noted the following:

- ° The licensee adequately demonstrated the ability to properly implement the ISI program, including the eddy current examinations of the steam generator tubes.
- ° The licensee's staffing of the ISI group was adequate, and the personnel were very knowledgeable and conscientious.
- ° Records were found to be complete and well maintained.

DETAILS

1. Persons Contacted

American Electric Power Service Corporation (AEP)
Indiana Michigan Power Company (I&M)

*J. Droste, Engineering Superintendent

*J. Fitchok, ISI Coordinator

U. S. Nuclear Regulatory Commission (NRC)

J. Isom, Senior Resident Inspector

*D. Passehl, Resident Inspector

The NRC inspector also contacted and interviewed other licensee and contractor employees.

*Denotes those present at the exit interview on February 7, 1991.

2. Inservice Inspection (ISI) Unit 1

a. Review of Program (73051)

Westinghouse Electric Corporation (W), Southwest Research Institute (SWRI), and Indiana Michigan Power Company (I&M) personnel performed the ISI in accordance with ASME Section XI, 1983 Edition, Summer 1983 Addenda. The staff size was sufficient to ensure that the ISI work was adequately performed. The licensee did not submit a request for relief from the ASME Code this outage.

The NRC inspector reviewed a Factory Mutual Engineering audit dated November 20, 1990, and other surveillance of ISI activities conducted by qualified personnel to verify compliance with the ISI program. The ISI program was found to be in compliance with licensee commitments.

b. Review of Procedures (73052)

All applicable ISI procedures were approved by the Authorized Nuclear Inservice Inspector (ANII) and were reviewed by the NRC inspector. The ultrasonic examination (UT) manual pulse echo detection instruments and transducers of various angles, sizes, and frequencies were used. The ISI procedures were found to be in accordance with ASME Section V, 1983 Edition, Summer 1983 Addenda.



c. Data Review and Evaluation (73755)

(1) General

The examination data was within the criteria as outlined in the applicable NDE procedures and ASME Code requirements. The NRC inspector's review included examination of documents relative to NDE equipment, data, and evaluations.

(2) Eddy Current Examinations (ET)

The Zetec MIZ-18A Data Acquisition and the Echoram Unix System were used to conduct the ET. The results were as follows:

<u>Steam Generator</u>	<u>Tubes Plugged</u>	<u>Tubes Plugged Previously</u>
11	64	180
12	18	148
13	57	142
14	31	167

No tubes were sleeved this outage. All of the new steam generator tube plugs were Inconel #690.

d. Work Activities (73753)

The following recordable indications were observed:

- (1) SWRI personnel performing magnetic particle examinations (MT) on pipe weld #1-FW-10-175 found a small linear surface indication in the 14" diameter, 3/4" thick pipe adjacent to the weld. It was determined that the linear indication was made by the pipe extrusion process in the fabrication shop. In accordance with ASME Code, Section XI, Paragraph IWB-3514.2, UT is allowed to be performed on this area if a surface indication was identified by MT. The UT found the indication to be acceptable in accordance with the Code.
- (2) SWRI personnel performing visual examinations (VT) on the reactor pressure vessel washers #10 and #13, found a recordable indication on each washer. Washer #10 contained a small tool nick that was determined not to be detrimental to continued service. Washer #13 had slight rust that was cleaned and neolubed and returned to service. All the other washers were found to be acceptable.

The NRC inspector reviewed the qualifications and certifications of all inspection personnel that were on site performing ISI to ensure conformance with SNT-TC-1A.

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No violations or deviations were identified.

3. Exit Interview

The NRC inspector met with site representatives (denoted in Paragraph 1) at the conclusion of the inspection on February 7, 1991. The NRC inspector summarized the scope and findings of the inspection noted in this report. The NRC inspector also discussed the likely informational content of the inspection report with regard to documents or processes reviewed by the NRC inspector during the inspection. The licensee did not identify any such documents/processes as proprietary.

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