

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No. 50-315/81-06; 50-316/81-06

Docket No. 50-315; 50-316

License No. DPR-58; DPR-74

Licensee: American Electric Power Service  
Corporation  
Indiana & Michigan Power Company  
2 Broadway  
New York, NY 10004

Facility Name: D. C. Cook Nuclear Plant, Units 1 and 2

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

Inspection Conducted: January 19, 27-30, and February 5, 1981

Inspectors: *for K. R. Baker*  
M. L. Gildner 3/16/81  
*for K. R. Baker*  
E. R. Swanson 3/16/81  
*K. R. Baker*  
Approved By: K. R. Baker, Chief 3/16/81  
Management Programs Section

Inspection Summary

Inspection on January 19, 27-30, and February 5, 1981 (Report No. 50-315/81-06; 50-316/81-06)

Areas Inspected: Routine unannounced inspection of equipment calibration activities. The inspection involved a total of 50 inspector-hours onsite by one NRC inspector. None of the inspector-hours were spent on site during off-shifts.

Results: In the area inspected, no apparent items of noncompliance or deviations were identified.

## DETAILS

### 1. Persons Contacted

\*D. Shaller, Plant Manager  
\*E. Townley, Assistant Plant Manager  
\*D. Duncan, C&I Supervisor  
C. Miles, Calibration Supervisor  
J. Harsh, Senior Clerk  
T. Beilman, QCIC  
R. Bischoff, Performance Engineer

Additional plant technical and administrative personnel were contacted during the course of the inspection by the inspector.

### 2. Activity Controlling Procedures

The procedures listed below were reviewed by the inspector for conformance to Technical Specification requirements, applicable industry standards, and general workability.

THI 4030 - Surveillance Testing  
THI 5030 - Preventive Maintenance  
THP 6030 IMP.001 - Test Equipment Calibration Program  
THP 6030 IMP.044 - Preventive Maintenance Program  
THP 2030 IMP.002 - C&I Instrument Calibration System

No items of noncompliance or deviations were identified in this area.

### 3. Test Equipment Calibration

The inspector selected eleven (11) pieces of test or calibration equipment which were in the control program from the test equipment crib and the calibration shop. The random selection was representative of both mechanical and electrical test equipment in the program.

Each of the selected test devices was examined for proper storage, proper identification of calibration status, and traceability of its calibration to nationally recognized standards.

No items of noncompliance or deviations in this area were identified, but the following areas of concern were noted and discussed with plant personnel.

- a. An equipment usage log is maintained to monitor equipment location and which equipment was used on a specific test or calibration. It was noted that the technicians checking out the equipment usually list only the location of usage and not the specific test.



Although the specific test could be derived by looking at activities on a specific day in that location, listing the specific test would greatly speed the validation process if that instrument were found to be out of calibration.

- b. Precision analog meters are calibrated by Indiana and Michigan Power's Fort Wayne facilities. While reviewing calibration documents, it was found that several of these instruments lacked adequate traceability. It could not be determined if any of these meters were used for safety related testing.

D. C. Cook Nuclear Plant Testing Equipment Calibration and Inspection Procedure PO 040-437 is inadequate in that it does not require the reference standard to be identified.

The procedure calls for a report on calibration to be issued for each instrument tested. The report states in part that all data pertinent to this test is retained on file and is available for audit. A copy of such data was included for several of these instruments and the standard reference traceability was not noted.

The Fort Wayne facility is a part of Indiana and Michigan Power and therefore does not fall under the vendor audit program. It has not been demonstrated that certification support documents are adequate in this area.

It was discussed with the licensee that documentation requirements should be detailed to Fort Wayne as there is the possibility that an instrument without a traceable calibration could be used for safety related testing. The licensee noted the inspectors comments and took action to bring the problem to the attention of Fort Wayne. There are no further concerns in this area at this time.

#### 4. Test/Calibration Procedure Content

Nine (9) randomly selected functional tests, time response tests, or calibration procedures for the reactor protection system and the engineering safety system, along with their other unit counterparts, were reviewed for procedure technical content.

These procedures were examined for proper reviews, cautionary notations, applicable acceptance criteria, as-found and as-left values, proper documentation of test equipment used, instructions for returning the system to normal operation on test completion, and appropriate signoffs.

No items of noncompliance or deviations were identified in this area.

5. Procedure Implementation

Twenty-seven (27) randomly selected tests and calibrations of safety systems were reviewed for proper implementation and documentation.

These completed tests and calibrations were examined for compliance with technical specification stated frequency and accuracy, completeness of the finished test with all required data and signatures, proper reviews for both technical and administrative issues and verification that the scheduling system acknowledged test/calibration completion.

No items of noncompliance or deviations were identified in this area.

6. Non-Technical Specification Calibration

Nine (9) instruments from safety function systems whose calibration was not specifically called out by Technical Specifications were randomly selected for documentation review.

The instruments were examined for inclusion in a calibration program utilizing proper procedures which would result in the instrument meeting the required accuracy for its intended function.

No items of noncompliance or deviations were identified in this area.

7. Exit Meeting

The exit meeting was held with those plant personnel indicated by an asterisk in paragraph 1 on Friday, February 6, 1981. The findings of this report were discussed with those present.

The inspector indicated to those present his appreciation of the cooperation of plant personnel during the conduct of this inspection.