

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

REGION III

Report No: 50-010/78-27

Docket No: 50-010

License No: DPR-02

Licensee: Commonwealth Edison Company  
P.O. Box 167  
Chicago, IL 60690

Facility Name: Dresden Nuclear Power Station, Unit 1

Inspection At: Dresden Site, Morris, IL

Inspection Conducted: August 16-17, 1978

Inspectors: *J. D. Smith*  
J. D. Smith

9/19/78

*J. L. Reyes*  
L. A. Reyes

9/19/78

Approved By: *J. F. Streeter*  
J. F. Streeter, Chief  
Nuclear Support Section 1

9/19/78

Inspection Summary

Inspection on August 16-17, 1978 (Report No. 50-010/78-27)

Areas Inspected: Routine, unannounced inspection of calibration and surveillance programs for components and equipment associated with safety-related systems.

Results: Of the two areas inspected, no items of noncompliance or deviations were identified in one area; one item of noncompliance (infraction-failure to adhere to approved procedures - paragraph 3) was identified in one area.

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## DETAILS

### 1. Persons Contacted

- B. Stephenson, Plant Superintendent
- E. Budzichowski, Operations Engineer Unit 1
- D. Farrar, Technical Staff Supervisor
- G. Frankovich , Electrical Maintenance Supervisor
- C. Reardanz, Senior Quality Assurance Coordinator
- R. Kyrouac, Quality Control Engineer
- A. Zapatocky, Instrument Foreman
- R. Yungk, Lead Engineer, Unit 1
- R. Nimmer, Surveillance Coordinator
- H. Waclaw, Engineering Assistant (I&C)
- B. Fancher, Operational Analysis Department

### 2. Calibration of Safety-Related Instrumentation

The inspector selected the calibration records related to the following safety-related instrumentation to verify that Technical Specifications calibration requirements were met.

- a. Control Rod Accumulators (Pressure)
- b. Low Pressure Boron Tank (Temperature and Indication)
- c. Emergency Feedwater (Flow Instrumentation)
- d. High Sphere Pressure (Pressure Transmitters).
- e. Emergency Diesel Generators (Vital Bus Undervoltage Relays)

The inspector determined that:

- 1. Service status of the system was in conformance with the applicable limiting condition of operation.
- 2. Procedures used to calibrate these systems contained review and approval and acceptance values for trip settings.
- 3. Trip points of components selected conformed to the applicable technical specifications.

At the time of the inspection, the inspectors were unable to establish whether or not the Unit 1 emergency diesel generator undervoltage relays were included in the surveillance program. Subsequent telephone conversations with Mr. D. Farrar established that they were incorporated when similar relays for Units 2 and 3 were added to the surveillance list.

A shortcoming in the surveillance of the Emergency Feedwater System was identified by the inspectors and discussed with the licensee. This shortcoming concerned the lack of calibration of the Emergency Feedwater instrumentation on a periodic basis. The licensee stated he would include this item in the calibration program. The inspectors had no further questions regarding this item.

3. Special Test Equipment

The inspector selected three pieces of special test equipment used in the calibration of safety-related equipment and determined that the accuracy of these instruments was traceable to an NBS standard or other independent testing agency. The inspector has no further questions regarding this item.

4. Surveillance of Safety-Related Systems and Components

The inspector selected surveillance tests related to the following systems to verify that Technical Specification surveillance requirements were met.

- a. Reactor Coolant System
- b. Reactivity Control
- c. Power Conversion and Auxiliary Systems
- d. Containment Systems
- e. Emergency Core Cooling Systems
- f. Other Engineered Safety Features
- g. Electrical Systems

The inspector determined that with one exception:

1. Prerequisites and functional testing of instrumentation involved were adequate to demonstrate operability of systems as required by Technical Specifications.
2. Technical content of test procedures was acceptable and test procedures contained acceptance criteria.
3. Operational checks prior to returning system to service were identified in the surveillance test.
4. Procedural requirements were being met.

One item of noncompliance was identified. While evaluating the test record of the Unit 1 Temporary Diesel Generator (Monthly Surveillance Test DOS 6600-3) it was determined that the acceptance criteria values for lube oil and fuel oil pressure had not been met for the period of March 6, 1978 through August 7, 1978. During this period the test had been performed eight times and the test was signed off by the operators and the operations supervisors with the test results not having met all of the acceptance criteria. This not only constitutes a failure to follow approved procedures as required by Section 6.2 of the Technical Specifications, but also demonstrates shortcomings in supervisory review in that the procedure was signed off with the parameters outside acceptance criteria.

All test acceptance criteria, including ability to assume load other than the criteria for lube oil and fuel oil pressure were satisfied.

The minimum and average lube oil pressure observed was 60 psi and 69 psi respectively, as compared to the acceptance criteria of 80 to 105 psi. The maximum and average fuel oil pressure observed was 50 psi and 48 psi respectively as compared to the acceptance criterion of 40-45 psi.

This noncompliance is considered to be an infraction.

4. Exit Interview

At the conclusion of the inspection, the inspectors met with the Plant Superintendent and summarized the results of the inspection.