

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-461/85020(DRS)

Docket No. 50-461

License No. CPPR-137

Licensee: Illinois Power Company  
500 South 27th Street  
Decatur, Illinois 62525

Facility Name: Clinton Nuclear Power Station, Unit 1

Inspection At: Clinton Site, Clinton, Illinois

Inspection Conducted: April 10 through June 18, 1985

Inspector: *S. G. DuPont*  
S. G. DuPont

*2/9/85*  
Date

Approved By: *M. A. Ring*  
M. A. Ring, Chief  
Test Programs Section

*2/9/85*  
Date

Inspection Summary

Inspection on April 10 through June 18, 1985 (Report No. 50-461/85020(DRS))

Areas Inspected: Routine, unannounced inspection of licensee action on previous inspection findings, preoperational test procedure review, preoperational test witnessing, and preoperational test program implementation. The inspection involved a total of 52 inspector-hours onsite by one NRC inspector, including 15 inspector-hours onsite during offshifts. In addition, the inspection involved 21 inspector-hours in the Regional Office.

Results: No violations or deviations were identified.

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## DETAILS

### 1. Persons Contacted

- \*D. P. Hall, Vice President
- \*J. W. Wilson, Plant Manager
- \*J. H. Green, Manager of Startup
- \*J. S. Perry, Manager Nuclear Program Coordination
- \*A. E. Mueller, Jr., Supervisor - Quality Technical Support
- \*D. W. Wilson, Supervisor Licensing Administration
- \*J. F. Hampton, Supervisor Engineering Assurance
- \*J. Greenwood, Manager - Power Supply
- \*J. A. Brownell, Staff Specialist - Licensing

The inspector also interviewed other licensee employees, including members of the quality assurance, startup and operating staff.

\*Denotes those attending the exit interview on June 18, 1985.

### 2. Action on Previous Inspection Findings

(Open) Open Item (461/85005-22(DRS)): Verify that tornado and missile protection is provided for diesel oil storage tank fill lines in accordance with Paragraph 9.6.3.2 of SER. The inspector reviewed the Sargent and Lundy (S&L) design drawings S29-1422, S29-1201-05B, S29-1200-05B and S29-1001-05A and verified that the tornado/missile protection design for the diesel oil storage tank fill lines located outside of the diesel building was adequate. However, the inspector verified during the visual inspection of the installation that the two inch steel covers for the tornado/missile protection structure could not be lowered and secured as required for tornado protection because of other requirements to have the fill line vent located outside of the tornado protection structure. This item is open until the licensee can provide adequate protection for the fill lines.

(Closed) Open Item (461/84-20-08(DRS)): The licensee's administrative procedures are vague as to whether the requirements dealing with evaluation of items tested since the last calibration when M&TE is subsequently found out of calibration applying to permanent plant equipment. The inspector reviewed the revised Startup Administrative Procedures SAP-5, "Test Procedure Results, Review, and Approval," and SAP-11, "Conduct of Tests," and verified that adequate control exists to ensure that permanent plant equipment is calibrated and subject to the same regulatory requirements as portable M&TE.

(Closed) Open Item (461/84-20-07(DRS)): The licensee's program requirements to verify that permanent plant equipment used to provide quantitative data for FSAR Chapter 14 requirements has been calibrated within six months of the release for test performance date do not ensure that this equipment has been calibrated within six months

of actual use. The inspector reviewed the revised procedures SAP-5 and SAP-11 and verified that M&TE equipment is required to be calibrated within six months of actual use for quantitative data collection.

(Closed) Open Item (461/84-20-06(DRS)): The licensee's administrative requirements do not include comprehensive programs for housekeeping and cleanliness control for the time that startup has jurisdictional control of equipment and areas of the plant. The inspector reviewed the procedures SAP-27, "Housekeeping and Cleanliness Control," and revised procedure SAP-15 and verified that prior to release for performance of a test, the cleanliness requirements must be evaluated and determined. These procedures appear adequate to ensure that cleanliness control will be maintained while startup has jurisdictional control of a system.

(Closed) Open Item (461/85005-15(DRS)): Verify that a battery charger failure alarm is installed on the Division 3 Direct Current power system (SER, Paragraph 8.3.2). The inspector verified that a battery charger failure alarm was installed and tested by review of General Test Program GTP-40 for E02-2HP99 sheet 113 and that the alarm will be preoperationally tested in preoperational test PTP-DC-03.

(Closed) 10 CFR 50.55(e) Item (461/84-07-EE(DRS)): Startup using the incorrect General Electric (GE) site specific design specifications in developing preoperational test procedures. The inspector verified the following corrective actions were taken to ensure that the correct site specific design specifications are used for developing preoperational test procedures: Station Engineering Department (NSED), startup and plant staff personnel were trained to assure that the GE Master Parts List (MPL) is used as the master document for determining applicable GE documents. Administrative procedures were revised to contain requirements that "the MPL should be used to determine appropriate GE documents." A review of all test procedures was performed to assure that the correct references were used prior to release for testing. A GE Engineering Information System (EIS) terminal has been provided for use by the Startup and Plant Operations groups to provide a listing of the latest revision of all documents directly applicable to the site. These actions are determined to be adequate to ensure that the appropriate site specific document is identified for use in developing preoperational tests.

### 3. Preoperational Test Procedure Review

The inspector reviewed the following test procedures for compliance with the FSAR, the SER, Regulatory Guide 1.68, and the Startup Manual and found them satisfactory except as noted.

- PTP-HP-01, "High Pressure Core Spray"
- PTP-LP-01, "Low Pressure Core Spray"
- PTP-DC-01, "Battery 1A"
- PTP-DC-03, "Battery 1C"
- PTP-NB-01, "Nuclear Boiler"
- PTP-CC-01, "Component Cooling Water"
- PTP-SX-01, "Shutdown Service Water"

During the review of PTP-SX-01, the inspector determined that not all of the loads supplied by shutdown service water were flow tested as listed on FSAR Table 9.2-3. These loads were room coolers for standby gas treatment, the hydrogen recombiner, the inverter and main steam isolation valve leakage control rooms. Even though these required tests were not contained within the preoperational test procedure, the test procedure had not been released for testing and had not yet completed the technical review prior to release. This is considered an open item until the procedure is revised to contain all Table 9.2-3 required loads (461/85020-01(DRS)).

No violations or deviations were identified.

#### 4. Preoperational Test Witnessing

The inspector witnessed the following preoperational testing to ascertain through observation and record review that testing was conducted in accordance with approved procedures and the requirements of the Startup Manual. Additionally, the performance of licensee personnel was evaluated during testing and found to be satisfactory.

PTP-DC-01, "125V DC Subsystem 1B"  
PTP-NB-01, "Nuclear Steam Supply Shutoff System"  
PTP-CC-01, "Component Cooling Water"

No violations or deviations were identified.

#### 5. Preoperational Test Program Implementation

The inspector at random selected several tests from the program index and verified that the test program contained them as part of scheduled preoperational tests. Additionally, the inspector, by direct interview, verified that the director of startup testing was familiar with his responsibilities for the test program as required by Regulatory Guide 1.68.

No violations or deviations were identified.

#### 6. Open Items

Open items are matters which have been discussed with the licensee, which will be reviewed further by the inspector, and which involve some action on the part of the NRC or licensee or both. Open items disclosed during the inspection are discussed in Paragraph 3.

#### 7. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) on June 18, 1985. The inspector summarized the scope and findings of the inspection. The inspector also discussed the likely informational content of the inspection report with regard to documents or processes reviewed by the inspector during the inspection. The licensee did not identify any such documents/processes as proprietary. The licensee acknowledged the statements made by the inspector with respect to the open item.