

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-461/85-011

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: January 24 through March 1, 1985

Inspector: *M. A. Ring*
R. C. Marzih

3/15/85
Date

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

3/15/85
Date

Inspection Summary

Inspection on January 24 through March 1, 1985 (Report No. 50-461/85-011(DRS))
Areas Inspected: Routine, unannounced inspection of licensee action on previous inspection findings, action on 10 CFR 50.55(e) reports, preoperational test procedure review, preoperational test witnessing and preoperational test program implementation. The inspection involved a total of 29 inspector-hours onsite by one NRC inspector, including 3 inspector-hours onsite during off-shifts. In addition, the inspection involved 63 inspector-hours in the Regional Office.
Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

- *D. P. Hall, Vice President
- *H. E. Daniels, Project Manager
- *J. H. Greene, Manager Startup
- *H. R. Victor, Manager NSED
- *J. Greenwood, Manager Power Supply
- *J. E. Loomis, Construction Manager
- *J. S. Perry, Manager, Nuclear Program Coordination
- *J. G. Cooke, Assistant Plant Manager
- *F. A. Spangenberg, Director, Nuclear Licensing
- *R. E. Campbell, Director, QS&A
- *R. G. Collings, Supervisor, Audits
- *F. C. Edler, Supervisor, Construction/Startup
- *J. R. Sprague, Station QA Specialist

The inspector also interviewed other licensee employees of the startup staff.

*Denotes those attending the exit interview on March 1, 1985.

2. Action on Previous Inspections Findings

(Closed) Open Item (461/84-20-02(DRS)): Additional administrative controls governing conduct of dry run tests. The licensee has revised Startup Administrative Procedure, SAP-11, "Conduct of Tests," to include conditions required for equipment operations during a dry run and methods for documenting deficiencies identified during the conduct of a dry run.

(Closed) Open Item (461/84-20-03(DRS)): Provide concurrence by second individual for minor test changes. The licensee has revised procedure, SAP-11, to include this requirement and provide instruction to the concurring individual as well as defining the significance of the concurrence signature.

(Closed) Open Item (461/84-20-04(DRS)): Provide administrative controls for Joint Test Group (JTG) rush business. The licensee has revised procedure, SAP-22, "Joint Test Group," to include administrative requirements for handling rush business as a part of JTG meetings.

3. Action on 10 CFR 50.55(e) Reports

(Closed) 10 CFR 50.55(e) Report (461/84-08-EE): Concern related to the cleanliness classification specified for the suppression pool. The licensee identified this item as potentially reportable on March 28, 1984, and subsequently withdrew the item on April 6, 1984. The inspector reviewed the file documentation associated with this item and has no further concerns in this area.

4. 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.

- PTP-DC-02, "125 VDC Subsystem 1B"
- PTP-DC-04, "125 VDC Subsystem 1D"
- PTP-NB-02, "Automatic Depressurization System"
- PTP-VH-01, "Shutdown Service Water Ventilation System"

The inspector found these procedures satisfactory except as noted.

During review of FTP-DC-02 and PTP-DC-04, the inspector found that the duty load cycle of each battery as specified for testing in the pre-operational tests to be different than the duty load cycle stated in the FSAR. The licensee stated that the duty load cycles for all batteries have been revised based upon re-evaluation of the actual performance requirements for each battery and that the duty load cycle contained in each preoperational test was in accordance with current design. The licensee committed to include, in a future amendment to the FSAR, the updated duty load cycles for all batteries. This is an open item (461/85-11-01(DRS)) pending licensee action and inspector review of the amended FSAR.

Concerning PTP-VH-01, the inspector identified a difference between the operation of the installed handswitch control for the ventilation fans and the FSAR description of these controls. The difference relates to the ability of the handswitch to override an automatic ventilation system start signal. The FSAR currently states that the handswitch cannot override the automatic start signal; however, the installed design will allow the handswitch to shutdown the ventilation system should the handswitch be placed in the "pull-to-lock" position or if the handswitch is held in the "stop" position even with an automatic start signal present. The licensee has committed to evaluate this difference and take action to bring the installed design and the FSAR description into agreement. This is an open item (461/85-11-02(DRS)) pending licensee action and inspector review.

No items of noncompliance or deviations were identified.

5. 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-02, "125 VDC Subsystem 1B"

The inspector witnessed the battery charger testing, Section 7.4. The inspector independently verified selected prerequisites for this test section and verified the annunciator engraving in the main control room. Additionally, the inspector reviewed the test narrative and the exception/discrepancy list. During testing, the overcurrent limiter appeared to be out of calibration. A maintenance work request was issued to correct the current limiter problem. Also, several days later during normal operation, the 1B battery charger tripped. Licensee investigation found that the "C" phase transformer had shorted internally, requiring its replacement. The licensee stated that upon completion of these maintenance activities retesting of the battery chargers would be performed.

PTP-VH-01, "Shutdown Service Water and Ventilation System"

The inspector witnessed a portion of a dry run of this procedure. The licensee observed that an indicator for power supply availability to the ventilation fan which is indicated in the main control room was providing erroneous indication. The cause was not apparent. The dry run was stopped and the licensee stated corrective action would be required prior to any testing resumption.

No items of noncompliance or deviations were identified.

6. Test Program Implementation

The inspector interviewed several members of the licensee's test organization to determine if they were knowledgeable in the requirements of the Startup Manual. The inspector determined that for those interviewed, they were conversant in the administrative requirements for the subjects discussed. Subjects included deficiency reporting, conduct of test, maintenance activities during testing and interruptions of tests.

No items of noncompliance or deviations were identified.

7. 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 4.

8. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) on March 1, 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 by the inspector with respect to the open items.