

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-373/82-42(DETP)

Docket No. 50-373

License No. NPF-11

Licensee: Commonwealth Edison Company
Post Office Box 767
Chicago, IL 60690

Facility Name: LaSalle County Nuclear Station, Unit 1

Inspection At: LaSalle Site, Marseilles, IL

Inspection Conducted: August 6, 7, 19, 20, 31 and September 1, 1982

Inspectors: *F. Maura* 9/29/82

D. Robinson
D. Robinson 9/29/82

Approved By: *I. Jackiw*
I. Jackiw, Chief 9/29/82
Test Program Section

Inspection Summary

Inspection on August 6, 7, 19, 20, 31 and September 1, 1982 (Report No. 50-373/82-42(DETP))

Areas Inspected: Routine announced inspection to witness Startup Testing, review of Startup Test Results, complete review of SRV Special Startup Test Procedure, and comment on Administrative Controls for Unit 2 Preop Program. The inspection involved 42 inspector-hours onsite by two NRC inspectors including seven inspector-hours during off-shifts.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

- *R. Holyoak, Station Superintendent
- ***R. Bishop, Assistant Superintendent
- **J. Renwick, Technical Staff Supervisor
- **E. Pfister, Lead Nuclear Engineer
- *R. Kyrouac, QA Supervisor, Operations
- R. Ralph, Engineer, SNED
- W. Choudhury, Sargent & Lundy Project Engineer
- R. Humphrey, Sargent & Lundy Construction Management Engineer

The inspectors also interviewed other licensee employees including members of the operations, technical and QA staff.

*Denotes those persons attending exit interview of August 20, 1982.

**Denotes those persons attending exit interview of September 1, 1982.

***Denotes those persons attending both exit interviews.

2. Licensee Action on Previous Inspection Findings

(Closed) Open Item (50-373/81-00-02): The inspectors reviewed Special Startup Test Procedure LST 79-1, "In-Plant SRV Test," and concluded that it was sufficient to demonstrate the adequacy of the design loads.

3. Startup Test Procedure Review

The inspectors reviewed Special Startup Test Procedure LST 79-1, "In-Plant SRV Test," for technical adequacy and compliance with FSAR and SER commitments. On August 20, 1982, the inspectors met with licensee representatives to discuss inspector concerns regarding viability and applicability of the test results. The inspectors observed that the procedure did not appear to provide adequate control of initial conditions to assure test repeatability for the consecutive and sequential valve actuations. The inspectors noted that no meaningful statistical evaluation of the test data could be made as a result. The licensee stated that the two test sections in question were not intended to be statistically evaluated, as initial conditions for both cases were too difficult to reproduce; instead, the five to ten runs for each case were meant to provide a range of loading conditions about the specified value. The licensee further stated that the purpose of the In-Plant SRV Test was not to verify design loads but to demonstrate that the design loads were bounding over all the load combinations specified in the test matrix. The inspectors concluded that the procedure as written would be adequate for this purpose.

No items of noncompliance or deviations were identified.

4. Startup Test Witnessing

The inspector witnessed portions of the startup test on the Reactor Water Cleanup System on August 6 and 7, 1982, as described in Startup Test Procedure STP-70. The two major objectives of the test were to

verify adequate NPSH and GE process diagram requirements for all operating modes; i.e., normal, blowdown, and hot standby. The inspector verified that NPSH requirements were satisfied in all cases but noted that RWCU flow rates were approximately 10% short of the GE requirements. The licensee stated that the observed performance deviation was probably due to instrument error or possibly an incorrect operating specification. Upon further investigation the licensee determined that RBCCW inlet temperature indication was erroneous and that retesting would be required to resolve deviation from specified values. Proper resolution of observed RWCU operating deficiencies is an open item (373/82-42-01) pending further inspector review.

No items of noncompliance or deviations were identified.

5. Review of Startup Test Results

a. STP-5, CRD

The inspector reviewed the results of STP-5, CRD, obtained during test condition "heatup" and has determined that:

- (1) All test changes were processed in accordance with Startup Manual and Technical Specifications requirements.
- (2) Test deficiencies have been processed and corrected as required.
- (3) Data sheets were complete and deficiencies noted.
- (4) Results were evaluated and met the acceptance criteria except that both flow control valves (FCV) failed to meet the Level 3 criteria that they close within 10 to 30 seconds after a scram signal occurs. FCV "A" closed in 60.6 seconds and FCV "B" in 76.4 seconds. After reviewing the data the General Electric Company has concluded that no further action is required since pump runout and subsequent pump trip did not occur.

A review of scram time and friction data showed that:

- (a) The licensee was not able to obtain CRD friction traces for CRD 10-11 due to scheduling problems. Although scram times for rod 10-11 are well within the maximum time allowable the inspector requested that the licensee obtain a friction trace of rod 10-11 at rated temperature and pressure since this rod experienced the highest pressure (~90 psi) required to insert any rod during cold testing. It was noted that for the four rods friction tested at rated temperature the peak pressure required to insert the rods increased 8 to 11 psi from the results obtained at ambient temperature. The licensee agreed to consider the inspector's request. This is an open item (377/82-42-02) pending review of the licensee's action.

- (b) None of the eight rods selected for monitoring during the startup program (four from each sequence, based on cold test results) were among the seven rods with the longest scram times at rated temperature and pressure. The licensee agreed to add the new seven rods to the eight already being monitored throughout the startup program.

b. STP-25, MSIV

The inspector reviewed the results of STP-25, MSIV, obtained during test condition "heatup" and has determined that:

- (1) All test changes were processed in accordance with the Startup Manual and Technical Specification requirements.
- (2) Test deficiencies have been processed and corrected as required.
- (3) Data sheets were complete and deficiencies noted.
- (4) Test results were evaluated and met the acceptance criteria.

No items of noncompliance or deviations were identified.

6. Startup Manual Comments

The inspector gave the licensee his comments on how to improve the Startup Manual for the Unit 2 preoperational program in order to prevent or minimize the problems encountered during the performance of the Unit 1 preoperational program.

No items of noncompliance or deviations were identified.

7. Exit Interview

The inspectors met with licensee representatives (denoted in Paragraph 1) on August 20 and September 1, 1982. The inspectors summarized the scope and findings of the inspection.