U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 50-322/82-27

Docket No. 50-322

License No. CPPR-95 Priority -- Category B

Licensee: Long Island Lighting Company

175 East Old Country Road

Hicksville, New York 11801

Facility Name: Shoreham Nuclear Power Station

Inspection At: Shoreham, New York

Inspection Conducted: October 18-22, 1982

Inspectors: H. H. Nicholas 11/15/82

H. H. Nicholas, Reactor Inspector date

Approved By: L. H. Bettenhausen 11/17/82

L. H. Bettenhausen, Chief date
Test Programs Section

Inspection Summary:

Inspection on October 18-22, 1982 (Report No. 50-322/82-27)

Areas Inspected: Routine unannounced inspection of licensee's action on previous inspection findings; preoperational test program status including test program implementation, test procedure review, procedure modification, test results evaluation; and tours of the facility. The inspection involved 35.5 inspector-hours onsite and 3.5 inspector-hours in office by one region-based inspector.
Results: No violations were identified.

DETAILS

1. Persons Contacted

Long Island Lighting Company

*M. Giannattasio, Assistant Superintendent of Construction
R. Jongebloed, Nuclear Engineer
J. Kelly, FQA Manager
*J. McCarthy, FQA Engineer
A. Muller, Quality Control Engineer
M. Museler, Manager, Construction and Engineering
E. Nicholas, FQA Supervisor
J. Rivello, Plant Manager
*J. Rose, OQA Engineer
*D. Terry, Assistant Startup Manager
*E. Youngling, Startup Manager

General Electric Company

J. Reilly, Operations Manager

U.S. Nuclear Regulatory Commission

J. Higgins, Senior Resident Inspector

*Denotes those present at exit interview on October 22, 1982.

2. Licensee Action on Previous Inspection Findings

(Closed) Noncompliance Item (50-322/82-11-03). Failure to conduct service test of three batteries within eighteen month required period. In response to the violation resulting from Inspection Report 50-322/82-11, the licensee stated that periodic maintenance and testing of the three batteries is provided for, using written and approved interim Operating Instructions. The batteries will be subject to service testing in accordance with the Plant Staff Surveillance Program commencing prior to initial fuel load. The violation is withdrawn and this item is closed.

(Open) Unresolved Item (50-322/82-11-01). Closeout test results evaluation review exceptions when resolved and approved in procedures PT 102.001, PT 123.001 PT 501.002, PT 622.001, AT 301.001 and AT 670.003. Resolutions to PT 501/002, AT 301.001 and AT 670.003 have been completed. This item will remain open until the remainder of the exceptions are resolved.

(Open) Unresolved Item (50-322/82-22-01). Test exceptions to be resolved for PT 119.001, PT 202.001, PT 312.001A, PT 601.001, PT 702.005, PT 704.001, AT 102.001, AT 126.001, AT 132.001, AT 317.001, AT 308.001B, AT 308.001A and AT 192.001. PT 601.001 has been completed and this item will remain open until the remainder for the exceptions are resolved.

3. Preoperational Test Program

References:

-- SNPS Final Safety Analysis Report
-- SNPS Startup Manual
-- SNPS Safety Evaluation Report, NUREG-0420, and Supplements 1, 2, and 3
-- SNPS Project Schedules
-- SNPS Startup Procedure Status Listing
-- SNPS Startup Monthly Program Report
-- RG 1.68, Initial Test Programs for Water Cooled Reactor Power Plants

3.1 Test Program Status and Implementation

Scope:

The inspector met with the Startup Group and other licensee representatives and discussed the status of construction; system turnovers; completed preoperational tests and remaining tests; test procedures approved for testing, awaiting test results evaluation, review and approval; tests for which results have been evaluated and approved; and completed systems turned over to plant staff. Discussions also included the interface between the preoperational test program and the startup test program; preparations being made for the integrated electrical test including the battery systems and the EDG sets and their auxiliaries; and, proposed testing to simulate the loss of all AC power for the reactor and containment systems. The inspector reviewed the monthly startup report, the system turnover list, project schedules, the startup procedure status listing, the startup program report, and plans of the day showing work in progress and testing of components and systems scheduled to start or be tested from day to day.

Findings:

As a result of these discussions, review of references and review of documents relative to test program status and implementation, no discrepancies were noted. The inspector had no further questions in these areas.

3.2 Test Procedure Review and Verification

Scope:

The procedures listed below were reviewed in preparation for test witnessing. They were reviewed for technical and administrative adequacy and for verification that adequate testing is planned to satisfy regulatory guidance and licensee commitments.

-- PT 117.003, Revision 0, approved September 10, 1982, Automatic Depressurization System Relief Valve Accumulator

-- PT 654.008, Revision 0, approved September 10, 1982, Personnel Airlock and Emergency Airlock

-- PT 136.003, Revision 0, approved November 19, 1980, Automatic Depressurization System

-- AT 110.001 Revision 0, approved September 1, 1982, Moisture Separator Reheater and Feedwater Heater Drains

The procedures were examined for management review and approval, procedure format, test objectives, prerequisites, environmental conditions, references, initial conditions, test objectives met, performance verification, recording conduct of test, restoration of system to normal after test, and independent verification of initial steps or parameters.

Findings:

As a result of the examination, the inspector ascertained that the procedures are consistent with regulatory requirements, guidance and licensee commitments. No discrepancies were noted. The inspector has no further questions on these procedures.

3.3 Test Results Evaluation

Scope:

The 20 preoperational test procedures and acceptance test procedures listed in Attachment A were reviewed to ascertain whether uniform criteria are being applied for evaluating completed preoperational tests to assure their technical and administrative adequacy.

The inspector reviewed the test results and verification of licensee evaluation of test results by review of test changes, test exceptions, test deficiencies, "As-Run" copy of test procedure, QC inspection records, and verification that the test results have been approved.

Findings:

The following unresolved test exceptions were noted in this review:

Procedure	Title	Exceptions
PT 120.001-1	RW Recirculation	033
PT 120.002	RPV Int. Vibration	012
PT 655.001	Seismic Monitoring	003
PT 607.001	RWM	007
PT 610.001	RPIS	016

These procedures will be examined on subsequent inspections for resolution of the listed exceptions and approval by the licensee. This is Unresolved Item (50-322/82-27-01).

4. Plant Tours

The inspector made several tours of the facility during the course of the inspection. The tours included containment drywell, reactor building, turbine building, control room, emergency switchgear rooms, battery rooms, diesel generator rooms, EDG fuel transfer rooms and screenwell house. The inspector observed work in progress, housekeeping and cleanliness controls. The following discrepancies were noted.

Inspection preparations for integrated electrical test included a tour of EDG rooms, EDG fuel oil transfer rooms, and battery rooms, including emergency switchgear rooms. Inspection of battery and emergency switchgear rooms revealed many unacceptable items such as wood, rags, paper, metal, poly bottles, drop cords, welding lead, air hose, a damaged ammeter on a battery charger which has been damaged since May 1982, a 24VDC battery cell which has been jumpered out with a damaged connector since July 1982, and all three battery room doors unlocked and propped open. There is a previous citation for this same condition in these areas that is still open. This condition was supposed to have been corrected by areas being kept clean and all doors locked. This is an Unresolved Item (50-322/82-27-02).

The reactor building and containment were very dirty with debris, hardware, wood, rags, paper and dirt on components, piping and in electrical trays.

It was noticed that a concerted effort is being made in the containment drywell, but is not evident in the reactor building. In screenwell room A, a ladder was against the electrical cabinet and no fire extinguisher is present in the room. In screenwell room B, a large workbench is up against the electrical cabinet also. The above mentioned discrepancies in the containment, reactor building and the screenwell rooms are the subject of a previous violation in these areas that is still open. This is an Unresolved Item (50-322/82-27-03).

5. Unresolved Items

Unresolved items are matters about which more information is required to ascertain whether they are acceptable items, violations or deviations. Unresolved items resulting from the inspection are discussed in Section 3.3 and Section 4.

6. Exit Interview

At the conclusion of the site inspection on October 22, 1982, an exit meeting was conducted with the licensee's senior site representatives (denoted in Paragraph 1). The inspector summarized the scope and findings of the inspection. Previous inspections in this area were also discussed.

ATTACHMENT A

PREOPERATIONAL TEST PROCEDURES REVIEWED

PT 120.001-1 approved January 25, 1982. Reactor Water Recirculation System, test results reviewed and evaluated August 13, 1982.

PT 120.002 approved November 14, 1978. Reactor Pressure Vessel Internals Vibration Test, test results reviewed and evaluated August 31, 1982.

PT 309.001C approved October 22, 1980. 4160 Volt Power Distribution, test results reviewed, evaluated and approved August 30, 1982.

PT 413.002-1 approved July 29, 1982. Primary Containment Cooling System, test results reviewed, evaluated and approved September 10, 1982.

PT 425.001 approved April 20, 1981. Primary Containment Inerting System, test results reviewed, evaluated and approved October 19, 1982.

PT 503.002 approved March 20, 1980. Fire Main Distribution, test results reviewed, evaluated and approved August 31, 1982.

PT 504.001-1 approved October 13, 1981. High Voltage Smoke Detection System, test results reviewed, evaluated and approved June 8, 1982.

PT 607.001 approved May 2, 1979. Rod Worth Minimizer System, test results reviewed and evaluated August 31, 1982.

PT 609.001-1 approved March 30, 1982. Rod Sequence Control System, test results reviewed, evaluated and approved August 31, 1982.

PT 610.001 approved August 23, 1979. Rod Position Indication System, test results reviewed and evaluated September 21, 1982.

PT 654.004 approved June 8, 1982. Primary Containment Instrumentation, test results reviewed, evaluated and approved September 10, 1982.

PT 654.007-1 approved July 29, 1982. Drywell Floor Seal Pressure, test results reviewed, evaluated and approved September 10, 1982.

PT 655.001 approved June 20, 1979. Seismic Monitoring System, test results reviewed and evaluated October 19, 1982.

AT 000.003 approved June 19, 1982. Reactor Building Receiving Area Crane, test results reviewed, evaluated and approved July 22, 1982.

AT 112.001-2 approved April 1, 1982. Generator Hydrogen Seal Oil, test results reviewed, evaluated and approved July 22, 1982.

AT 660.001 a proved May 6, 1977. Vibration Monitoring System, test results reviewed, evaluated and approved June 21, 1982.

AT 690.001 approved June 30, 1978. Excess Flow Check Valve Display System, test results reviewed, evaluated and approved September 21, 1982.

AT 692.001 approved January 26, 1982. Turbine Supervisory Instrumentation, test results reviewed, evaluated and approved March 24, 1982.

AT 715.002-1 approved October 22, 1981. Turbine Building Sampling System, test results reviewed, evaluated and approved May 12, 1982.