

U. S. ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION I

RO Inspection Report No. 50-322/72-02

Subject: Long Island Lighting Company

License No. Not licensed

Location: Shoreham, Long Island, New York

Priority

Category A

Type of Licensee: BWR 819 MWe (General Electric)

Type of Inspection: Special, announced

Dates of Inspection: September 13, 1972

Dates of Previous Inspection: March 10, 1972

Principal Inspector: A. A. Varela
A. A. Varela, Reactor Inspector

September 19, 1972
Date

Accompanying Inspectors: NONE

Date

Date

Other Accompanying Personnel: NONE

Date

Reviewed By: E. M. Howard
E. M. Howard, Chief, Reactor Construction Branch

9-18-72
Date

Proprietary Information: NONE

SECTION I

Enforcement Action

None

Licensee Action on Previously Identified Enforcement Matters

None

Status of Previously Reported Unresolved Items

None reported

Unusual Occurrences

None

Persons Contacted

Mr. T. F. Gerecke, Quality Assurance Administrator, Lilco
Mr. R. E. Black, Resident QA Engineer, Lilco
Mr. R. Kubinak, Assistant Project Manager, Lilco
Mr. W. E. Moran Jr., QA Coordinator, Stone and Webster, Boston
Mr. G. Fuller, Assistant Construction Superintendent, Stone and Webster site
Mr. C. Turner, QC Supervisor, Stone and Webster, site

All the above attended the management interview.

Management Interview

The following subjects were discussed at the management interview conducted at the site on September 13, 1972:

- A. The inspector stated his inspection disclosed that site activities presently being performed, did not include all continuation activities authorized by the August 16, 1972 letter from L. The inspector added that only maintenance items appeared to have been undertaken, and asked when concrete placement in the turbine building, and installation of reinforcing steel, embedment and form work for the reactor building foundation would be undertaken.

The licensee stated that concrete placement in the turbine building is not scheduled until early in 1973 after the batch plant is modified for automatic control and erected on the site and a well is drilled on site. This activity may start in mid October, 1972, and batch plant testing will follow in November or December. The licensee added that about twelve turbine building pedestals and footings, totalling less than 100 cubic yards, will be placed to test the site batch plant. However, if the construction permit is not issued in January, 1973, an additional request to DL will be made to place about 250 cy encasement for the valve pit.

Regarding installation of reinforcing steel etc. for the reactor building foundation, the licensee stated that only about 50 per cent of the steel is now in place and, depending on new contract negotiations between Lilco and S&W, reactivation of site work including the installation of the remaining pre-formed rebar could start late this year but may be delayed until 1973.

The inspector acknowledged these statements and informed the licensee that RO:I would keep current on site activities during subsequent inspections.

- B. The inspector inquired about additional dredging intake canals and what docking facilities were planned for delivery of manufactured equipment.

The licensee replied that intake canal widths and depths were sufficient to bring in a barge with reactor internals and moisture separators into the slip. But an area of about 50' X 150' at the inboard end of the slip, would be dragline dredged to provide for barges brought in at high tide grounded for unloading at low tide.

The inspector acknowledged these statements and informed the licensee that RO:I would keep current on site activities during subsequent inspections.

SECTION II

Additional Subjects Inspected, Not Identified in Section I, Where No Deficiencies or Unresolved Items Were Found

1. General

The Directorate of Licensing letter of August 16, 1972, to Lilco authorized continuation of certain construction activities which were in progress before 10 CFR Part 50 was amended on March 21, 1972. This special announced inspection was made to verify that continuing construction had not exceeded the authorized activities.

2. The applicant requested approval for continuation of the following activities:

- a. Maintenance and relocation of security fences.
- b. Maintenance of the designed depths and widths of the intake canal and construction of docking facilities, to accomodate delivery of heavy equipment.
- c. Maintenance of the Wading River Creek outlet on Long Island Sound as agreed upon with the State of New York and the U. S. Army Corps of Engineers.
- d. Continuation of procurement and erection of an on-site concrete batch plant.
- e. Continuation of placement of steel reinforcing, embediments, and formwork for the reactor building foundation.
- f. Continuation of installation of a warehouse extension to store and perform in-storage quality control procedures for plant equipment and materials previously manufactured.
- g. Continuation of maintenance activities at the site including de-watering system operations and fire protection, for minor temporary construction facilities.

- h. Placement of small quantities of concrete in the turbine building area to test the on site concrete batch plant.
3. With reference to the approved construction activities, this inspection disclosed the following activities:
- a. No security fence work along property line has been undertaken.
 - b. No intake canal dredging has been done.
 - c. Annual maintenance dredging of the Wading River Creek outlet on Long Island Sound was performed in the latter part of May 1972. About 500 cubic yards of sandy silt at mouth of the creek was removed by land based dragline and deposited to build beach on the east side of the creek as agreed upon with the State of New York and the U. S. Army Corps of Engineers.
 - d. Site concrete batch plant installation is not expected until mid October, 1972.
 - e. In place storage of steel reinforcing for the reactor building foundation has not been resumed since all work was shut down in September, 1971.
 - f. Erection of a warehouse extension, (identified in PSAR (Figure II-2-3) about 700' east of reactor building), is not yet started. The contractor's work trailer was brought to site last week.
 - g. Site maintenance activities:
 - (1) Dewatering system consisting of 20' deep, 4' spaced well points, has operated continuously since initial installation and excavation, about May, 1970, some well points have required replacement to maintain pumping rate of about 2,000 GPM.
 - (2) Fire protection has required maintenance of the system, that obtains potable desilted water from three wells about 1,500' south of the site, and, of the resupply trench.
 - (3) Miscellaneous temporary construction facilities, such as changes and modifications to construction power transformers, has been in progress since early September, an outside contractor with a four man crew will complete these changes this month.
 - (4) Placement of concrete in the turbine building has not been

undertaken pending installation of site batch plant in mid October of this year and initial batch plant placements for crane slabs. About twelve turbine building pedestals and footings aggregating about 100 cy may be placed this year for testing the batch plant efficiency.

4. During site inspection trip with Lilco's Gerecke and Black and S&W's Moran, the latter informed the inspector that negotiations are presently underway on S&W's proposal for a new "force account" contract. Since the proposal has not yet been accepted by Lilco, schedules of work for site reactivation by S&W in November could be effected. Also, Moran stated that under a force account contract, S&W would be a prime contractor with first level QC in all work, and, the subcontractors would only be a source for labor in each category of work.

Details of Subjects Discussed in Section I

None