

U. S. NUCLEAR REGULATORY COMMISSION  
REGION I

Report No. 50-322/82-21

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: Wading River, New York

Inspection Conducted: July 29, 1982

Inspectors: *John R. White*  
John R. White, Senior Radiation  
Specialist

10/7/82  
date

Approved by: *Edward A. Greenman*  
Edward G. Greenman, Acting Chief,  
Facilities Radiation Protection Section

10/8/82  
date

Inspection Summary: Inspection on July 29, 1982 (Inspection Report No. 50-322/82-21)

Areas Inspected: Special announced inspection of Health Physics personnel training and qualification program relative to NRC Materials License SNM-1857. The licensee's training program and qualification system were examined with respect to radiation protection requirements to support the receipt, handling and storage of reactor fuel. The inspection involved 5 inspector-hours on-site by one region-based inspector.

Results: **Violations: None**

## DETAILS

### 1. Persons Contacted

- \* Mr. M. L. Miele, Health Physics Engineer
- \* Mr. J. Rivello, Plant Manager
- \* Mr. L. J. Calone, Chief Technical Engineer
- Mr. N. DiMascio, Engineer
- Mr. L. Clements, Industrial Relations Supervisor

\*denotes those individual present at the exit interview on July 29, 1982.

### 2. References

- SNM-1857            NRC Material License No. SNM-1857 issued to Long Island Lighting Company
- NRC 82-13           NRC Inspection Report No. 50-322/82-13 dated July 14, 1982.

### 3. Inspection Purpose

The NRC Material License (SNM-1857) states the following in Condition 16:

"Prior to the time at which each fuel handling activity will be initially conducted (a) the training relevant to that activity will be completed and documented for all Long Island Lighting Company personnel involved in the activity and (b) the NRC Region I Office will review and approve the adequacy of such training."

A previous NRC Inspection (NRC 82-13) verified that Health Physics Foremen were trained and qualified sufficient to meet the requirements of Condition 16. The purpose of this inspection was to review and approve the licensee's training of selected technician personnel relevant to new fuel receipt; and verify that the training program for this activity was completed and documented.

### 4. Licensee Action on Previous Inspection Finding

(Closed) Inspector Follow Item (50-322/82-13-07), Completion of Health Physics technician training commitments. As of June 2, 1982 all technician had reviewed HP procedures for their respective areas of qualification and passed performance examinations of technical and practical ability. As of June 30, 1982, Procedure SP 61-040.01, "Health Physics Technician Qualification Program," was revised to reflect the requirement for both practical and written examinations for procedure qualification. A minimum passing grade was established.

## 5. Health Physics Technician Training

Of the 13 technicians currently assigned to the Health Physics Department, 7 were verified to have received sufficient training to enable them to adequately receive, handle, and control unirradiated enriched fuel assemblies.

At the time of the inspection, training and documentation had been completed for the selected personnel in at least the following areas as pertains to receipt of unirradiated fuel:

### Training Courses

- o Health Physics Theory
- o Basic Nuclear Concepts
- o Radiation Protection
- o Radio-Chemistry
- o BWR Systems
- o Basic Electronics

### Procedures

- o SP 68.003.03, "Receipt of Unirradiated Fuel"
- o SP 61.040.01, "Health Physics Technician Qualification Program"
- o SP 61.003.01, "Receiving Radioactive Materials"
- o SP 62.010.01, "General Radiation Survey Technique"
- o SP 62.020.01, "General Contamination Survey Techniques"
- o SP 61.010.03, "Radiation and Radioactive Material Area Designations and Signs"

The documentation indicated that training and qualification in these areas was verified by written examination. Personnel performance was evaluated by supervisory personnel.

Three of the selected technician personnel were interviewed by the inspector. The personnel demonstrated adequate ability and knowledge to perform radiological activities associated with receipt of unirradiated fuel.

No violations were identified. Based on an assessment of this area, the licensee has sufficiently met the requirements of SNM-1857, Condition 16.

## 6. Exit Interview

The inspector met with the licensee's representatives (denoted in paragraph 1) at the conclusion of the inspection on July 29, 1982. The inspector summarized the purpose and scope of the inspection.

It was concluded that the licensee's HP technician training program was adequate to sufficiently qualify personnel in the radiological controls

necessary for unirradiated fuel receipt. As of the date of this inspection, the inspector verified that at least 7 HP technician personnel had been adequately trained and qualified for the activity.