



# LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

WILLIAM E. STEIGER, JR.

ASSISTANT VICE PRESIDENT--NUCLEAR OPERATIONS

OCT 6 1989

SNRC-1643

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D.C. 20555

Revision of Emergency Preparedness Plan  
Shoreham Nuclear Power Station - Unit 1  
Docket No. 50-322

Gentlemen:

In accordance with 10CFR50.54(q) and 10 CFR50.4, LILCO is forwarding two changes to the Shoreham Emergency Preparedness Plan. They involve 1) the composition of the Fire Brigade (attachment 1) and 2) an organization change previously described in SNRC-1615 dated 7/20/89 (attachment 2). These changes will appear in the next update of the Shoreham Nuclear Power Station Emergency Preparedness Plan

The safety evaluations for these two changes, which were done prior to the effective date of the changes, are available for your inspection.

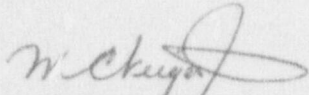
LILCO has reviewed these changes and concludes that they do not reduce the effectiveness of the plan in accordance with 10CFR50.54(q) and that the plan is in compliance with 10CFR50.47 and 10CFR50, Appendix E.

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Should you have any questions, please do not hesitate to call my office.

Very truly yours,



W. E. Steiger, Jr.  
Assistant Vice President  
Nuclear Operations

DRH/ap  
Attachments

cc: S. Brown  
W. T. Russell  
F. Crescenzo

The Reactor Engineering section consists of a Reactor Engineer with a staff of Performance Engineers, Nuclear Engineers and Shift Technical Advisors who will function in the areas of reactor physics, fuel management, post refueling startup surveillance testing and accident assessment transient analysis.

The Operations Section consists of supervisors and operators responsible for operation of the station. The station has a Watch Engineer directing the operations of each shift through the Watch Supervisor, Nuclear Station Operator and Nuclear Assistant Station Operator. The Watch Engineer reports to the Operating Engineer and is responsible for overall safe operation of the unit during the assigned shift. The Watch Engineer directs the activities of station personnel assigned to that shift and is cognizant of maintenance and operations activities being performed while on duty. The Watch Engineer on duty has both the authority and the obligation to shut down the unit if, in his/her judgment, conditions warrant this action.

The Systems Engineering Section is supervised by the Systems Engineer. This section's responsibilities include providing specialized, operationally oriented technical expertise in station systems and equipment. Systems Engineering also performs support functions for other operating organizations as appropriate.

## 5.2 On-Shift Organization

Per Table 6.2.2.1 of the Technical Specifications, Shoreham Nuclear Power Station, during operational conditions 1, 2 and 3, the minimum shift crew will consist of a Watch Engineer, one Senior Reactor Operator (SRO), two Reactor Operators (RO), two Equipment Operators and a Shift Technical Advisor (STA). (During operational conditions 4 and 5, the requirement for an SRO and STA is dropped). A health physics technician is also required to be onshift if fuel is in the reactor, and a site fire brigade of at least five members shall be maintained onsite at all times. In terms of Shoreham's Organization, this will equate to a normal operating crew consisting of a Watch Engineer, Watch Supervisor (SRO), Nuclear Station Operator (minimum RO license), Nuclear Assistant Station Operator(s) (RO), Equipment Operators, STA (when required by Technical Specifications), a Shift Health Physics Technician and a Shift Radiochemistry Technician. The onsite fire brigade will be manned by the Shift Watch Supervisor, ~~two~~ Fire Protection Technicians and ~~two~~ Equipment Operators. A Radwaste Operator and a Shift Production Assistant may be onshift but are not required by Technical Specifications.



## 5.0 ORGANIZATIONAL CONTROL OF EMERGENCIES

Using the normal operating organization (Fig. 5-1) as a base, this section of the plan describes the activation of the emergency organization and the assignment of authority and responsibility for functional areas of the emergency response. The latter part of this section describes the functions of offsite organizations and their emergency roles.

### 5.1 Normal Operational Organization

#### 5.1.1 Corporate Organization

LILCO has established an integrated organizational structure to provide for the overall management and technical support of the licensing and operation of the Shoreham Nuclear Power Station.

Executive responsibility for the management of these functions is exercised through the Vice President, Nuclear Operations. He reports to the President who is responsible to the Chairman, Chief Executive Officer. The Vice President, Nuclear Operations has delegated the authority for managing his nuclear responsibilities to the Assistant Vice President Nuclear, the Plant Manager of the Shoreham Station and the Managers of the Nuclear Operations Support, and Nuclear Engineering Departments.

The Manager, Nuclear Quality Assurance Department, has overall responsibility for quality assurance (QA) policy directing the activities of the Quality Control Manager and Quality Systems Manager, the Nuclear Review Board NRB, and the Safety Engineering and Reliability Manager. He also serves as Chairman of the Nuclear Review Board. He reports directly to the Vice President, Nuclear Operations. In addition, the Manager, Nuclear Quality Assurance shall have direct access to the President when he deems it is required. The Manager, Nuclear Quality Assurance Department has delegated the authority for managing the nuclear QA Program to the Quality Control Manager and Quality Systems Manager and has appointed a Safety Engineering and Reliability Manager to direct the ISEG and the Reliability Section.

The Director, Office of Training has the overall responsibility for the development of corporate training and training policy as well as for the development, implementation and maintenance of training programs for all power production personnel, both fossil and nuclear. He reports directly to the President. The Director, Office of Training has delegated authority for managing the training programs to the Manager, Operations and Simulator Training, the Manager, Production Training, and the Manager, Training Services.

Insert from  
Pages 3-5 of  
this attachment

### 5.1.2 LILCO Technical Support for Shoreham Operations

Technical and administrative support for operation will be provided by the Manager, Nuclear Engineering and the Manager, Nuclear Operations Support. As shown in Fig. 5-1 the Manager, Nuclear Engineering and the Manager, Nuclear Operations Support report directly to the Assistant Vice President, Nuclear Operations on-site. The objective of this supplementary support is to assure that LILCO has the resources to discharge its responsibility for the safe operation of the Shoreham Station and to have available a nucleus of personnel to provide timely technical support to the plant staff in the event of an emergency.

As shown in Fig. 5-1, the Manager, Nuclear Engineering Department is supported by six divisions, i.e., Nuclear Analysis, Nuclear Systems Engineering, Nuclear Project Engineering, Radiation Protection, Engineering Assurance, and Nuclear Fuel. These divisions will have as many staff specialists as required to support initial fuel loading and the safe operation of the plant. Technical design and evaluation expertise will be available in the areas of nuclear instrumentation, nuclear materials engineering, nuclear mechanical engineering, plant modifications, radiation protection and shielding, reactor physics, transient analysis, accident analysis, engineering assurance and nuclear fuel management. The Manager, Nuclear Engineering will have the responsibility for coordination, implementation, and direction of appropriate technical support functions carried out by the Nuclear Engineering Department.

As shown in Fig. 5-1, the Manager, Nuclear Operation Support Department is supported by five divisions; i.e., Nuclear Licensing and Regulatory Affairs, Nuclear Contracts and Material Control, Nuclear Financial Services, Nuclear Emergency Preparedness and Nuclear Site Security. These five divisions will have as many staff specialists as required to support initial fuel loading and the safe operation of the plant. Nuclear Operations Support personnel will provide administrative expertise for supplementary support functions such as licensing and regulatory activities, nuclear security, emergency preparedness, budget, contract administration, material control, cost control and records management. The Manager, Nuclear Operations Support is also responsible directly to the Assistant Vice President, Nuclear Operations for the development and administration of corporate policies and procedures required for the management of the nuclear organization.



LILCO has established an integrated organizational structure to provide for the overall management and technical support of the licensing and operation of the Shoreham Nuclear Power Station.

Executive responsibility for the management of these functions is exercised through the Assistant Vice President, Nuclear Operations and the Vice President, Office of Corporate Services. They both report to the President who is responsible to the Chairman, Chief Executive Officer. The Assistant Vice President, Nuclear Operations directs the efforts of the Plant Manager of the Shoreham Station and the Managers of the Nuclear Operations Support, Nuclear Engineering, and Nuclear Quality Assurance Departments. The Vice President, Office of Corporate Services direct the Manager, Emergency Preparedness Division, and the Assistant Vice President and Director of Training for activities associated with the nuclear effort.

#### 5.1.1 LILCO Corporate Support for Shoreham Operations

The responsibility for corporate technical support for the Shoreham Nuclear Power Station is exercised through the Vice President, Office of Engineering, and the Vice President, Office of Corporate Services. The Vice President, Office of Corporate Services, reports to the President, who is responsible to the Chairman, Chief Executive Officer. The Office of Corporate Services includes the following: Office of Corporate Training; Corporate Quality Assurance Department; Emergency Preparedness Division; Non-destructive Examination Section; and the Nine Mile Point Monitoring Group.

The Assistant Vice President and Director of Training has the overall responsibility for the development of corporate training and training policy as well as for the development, implementation and maintenance of training programs for all power production personnel, both fossil and nuclear. He reports directly to the Vice President Corporate Services. The Assistant Vice President and Director of Training has delegated authority for managing the training programs to the Manager, Operations and Simulator Training, the Manager, Production Training, and the Manager, Training Services.

The Manager, Emergency Preparedness Division directs the section of Onsite Emergency Preparedness, Offsite Plans/Facilities, and Offsite Drills/Training. For the Shoreham Nuclear Power Station, this includes the areas of drills, training, plans, procedures, facilities, and equipment. The Manager, Emergency Preparedness Division has delegated authority for management of the nuclear program to the Supervisor, Onsite Emergency Preparedness.

#### 5.1.2 LILCO Nuclear Support for Shoreham Operations

Technical and administrative support for operation will be provided by the Manager, Nuclear Engineering; the Manager, Nuclear Operations Support; and the Manager, Nuclear Quality Assurance. As shown in Fig. 5-1, the Manager, Nuclear Engineering; the Manager, Nuclear Operations Support; and the Manager, Nuclear Quality Assurance; report directly to the Assistant Vice President, Nuclear Operations. In addition, the Manager, Nuclear Quality Assurance has access to the President when he deems it is required.

The Manager, Nuclear Quality Assurance Department, has overall responsibility for quality assurance (QA) policy directing the activities of the Quality Control Manager and Quality Systems Manager, the Nuclear Review Board (NRB), and the Safety Engineering and Reliability Manager. He also serves as Chairman of the Nuclear Review Board. He reports directly to the Assistant Vice President, Nuclear Operations. In addition, the Manager, Nuclear Quality Assurance shall have direct access to the President when he deems it required. The Manager, Nuclear Quality Assurance Department has delegated the authority for managing the nuclear QA Program to the Quality Control Manager and Quality Systems Manager and has appointed a Safety Engineering and Reliability Manager to direct the ISEG and the Reliability Section.

The Manager, Nuclear Engineering Department is supported by four divisions, i.e., Nuclear Analysis, Nuclear Systems Engineering, Nuclear Project Engineering, and Nuclear Fuel. These divisions have sufficient staff to support safe operation with respect to the planned defueling of the reactor and subsequent fuel storage. Technical design and evaluation expertise is available in the areas of nuclear instrumentation, nuclear materials engineering, nuclear mechanical engineering, and radiation protection and shielding. The Manager, Nuclear Engineering will have the responsibility for coordination, implementation, and direction of appropriate technical support functions carried out by the Nuclear Engineering Department.

The Manager, Nuclear Operation Support Department is supported by four divisions; i.e., Nuclear Licensing and Regulatory Affairs, Nuclear Contracts and Material Control,

Nuclear Financial Services, and Nuclear Site Security. These four divisions will have as many staff specialists as required to support defueled status of the plant. Nuclear Operations Support personnel will provide administrative expertise for supplementary support functions such as licensing and regulatory activities, nuclear security, budget, contract administration, material control, cost control and records management. The Manager, Nuclear Operations Support is also responsible directly to the Assistant Vice President, Nuclear Operations for the development and administration of corporate policies and procedures required for the management of the nuclear organization.