



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

JOHN D. LEONARD, JR.
VICE PRESIDENT - NUCLEAR OPERATIONS

November 14, 1984

SNRC-1107

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Exercise Objectives for Emergency Plan Exercise
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

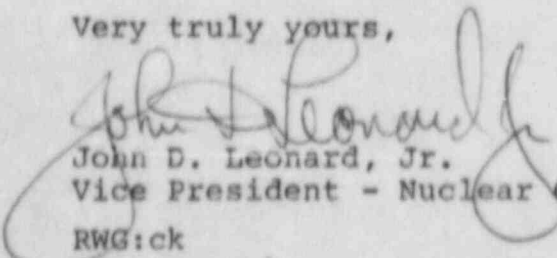
Dear Mr. Denton:

Attached for your review and forwarding to the Federal Emergency Management Agency pursuant to the FEMA-NRC Memorandum of Understanding dated as of November 1, 1984, 45 Fed. Reg. 02713 (1980), is a statement of objectives to be demonstrated at an exercise of the Shoreham Emergency Preparedness Plan and the Local Emergency Response Organization (LERO) Plan. This attachment is in two parts: first, a statement, in LILCO's terms, of the objectives of the exercise labeled "LERO Objectives", and second, a correlation of these objectives with the standard FEMA "Core Objectives." It is being submitted to you in order to support a graded exercise which LILCO is planning for the week of February 11, 1985. LILCO has also developed three potential scenarios for the exercise, which have been kept under security provisions. We would appreciate your transmitting this document promptly to FEMA and your good offices in arranging the preliminary meeting necessary to commence the detailed planning process for the exercises.

If you have any questions, please contact this office.

Very truly yours,

8411210218 841114
FDR ADOCK 05000322
F PDR


John D. Leonard, Jr.
Vice President - Nuclear Operations

RWG:ck

Attachment

cc: P. Eselgroth
C. Petrone (FEMA Region II)
Robert DeYoung (I&E)
Edward Jordan (I&E)
All Parties Listed in Attachment I

ADAS 1/20

Attachment I

James A. Laruenson, Chairman
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
East-West Tower, Room 402A
4350 East-West Hwy.
Bethesda, MD 20814

Dr. Jerry R. Kline
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
East-West Tower, Room 427
4350 East-West Hwy.
Bethesda, MD 20814

Mr. Frederick J. Shon
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
East-West Tower, Room 430
4350 East-West Hwy.
Bethesda, MD 20814

Secretary of the Commission
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Atomic Safety and Licensing Appeal
Board Panel
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Atomic Safety and Licensing Board
Panel
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Bernard M. Bordenick, Esq.
David A. Repka, Esq.
Edwin J. Reis, Esq.
U.S. Nuclear Regulatory Commission
7735 Old Georgetown Road
(to mailroom)
Bethesda, MD 20814

Stewart M. Glass, Esq.
Regional Counsel
Federal Emergency Management Agency
26 Federal Plaza, Room 1349
New York, NY 10278

Eleanor L. Frucci, Esq., Attorney
Atomic Safety and Licensing Board
Panel
U.S. Nuclear Regulatory Commission
East-West Tower, North Tower
4350 East-West Highway
Bethesda, MD 20814

Martin Bradley Ashare, Esq.
County Attorney
Suffolk County Department of Law
Veterans Memorial Highway
Hauppauge, NY 11787

Herbert H. Brown, Esq.
Lawrence Coe Lanpher, Esq.
Christopher McMurray, Esq.
Kirkpatrick, Lockhart, Hill
Christopher & Phillips
8th Floor
1900 M Street, NW
Washington, DC 20036

MHB Technical Associates
1723 Hamilton Avenue
Suite K
San Jose, California 95125

Mr. Jay Dunkleberger
New York State Energy Office
Agency Building 2
Empire State Plaza
Albany, NY 12223

Jonathan D. Feinberg, Esq.
New York State Department of
Public Service
3 Rockefeller Plaza
Albany, NY 12223

Fabian G. Palomino, Esq.
Special Counsel to the Governor
Executive Chamber, Room 229
State Capitol
Albany, NY 12224

Stephen B. Latham, Esq.
Twomey, Latham & Shea
33 West Second Street
P.O. Box 398
Riverhead, NY 11901

Gerald C. Crotty
Counsel to the Governor
Executive Chamber
State Capitol
Albany, NY 12224

James Dougherty, Esq.
3045 Porter Street
Washington, DC 20008

Spence W. Perry, Esq.
Associate General Counsel
Federal Emergency Management Agency
500 C Street, SW
Room 840
Washington, DC 10472

Ms. Nora Bredes
Executive Coordinator
Shoreham Opponents Coalition
195 East Main Street
Smithtown, NY 11787

LILCO SHOREHAM/LERO PLAN

A. Emergency Response Facilities and Equipment

1. Demonstrate the prompt activation, adequacy of the staffing and set up as appropriate of emergency response facilities as follows:
 - o Shoreham Nuclear Power Station Control Room
 - o Shoreham Nuclear Power Station Technical Support Center
 - o Shoreham Nuclear Power Station Operations Support Center
 - o Shoreham Nuclear Power Station Emergency Operations Facility
 - o Local Emergency Response Organization Emergency Operations Center in Brentwood (LERO EOC)
 - o Local Emergency Response Organization Staging Areas in Riverhead, Patchogue and Port Jefferson (LERO SA)
 - o Emergency News Center (ENC)
 - o Emergency Worker Decontamination Facility
2. Demonstrate the Shoreham Nuclear Power Station communication capabilities among the Control Room, Technical Support Center, Emergency Operations Facility, Operations Support Center, and the Emergency News Center.
3. Demonstrate the capability to communicate effectively between Shoreham Nuclear Power Station Emergency Response Organization and LERO.
4. Demonstrate effective communications among the LERO EOC in Brentwood, and the various staging areas, the Emergency News Center, and among Staging Areas, Bus Transfer Points, Traffic Control Points and Field locations.
5. Demonstrate the ability of the Shoreham Nuclear Power Station, and LERO communications to:
 - o Perform a 24-hour per day notification
 - o Transmit accurate and timely information
6. Demonstrate the ability of the Shoreham Nuclear Power Station Emergency Response Organization and LERO to deploy, coordinate and control radiological monitoring teams.
7. Demonstrate exposure control capabilities for onsite corrective action teams.
8. Demonstrate communication of technical information to the Nuclear Regulatory Commission via the NRC hotlines.

9. Demonstrate the adequacy of internal communications within the Emergency Response Facilities as defined in A.1 above.
10. Demonstrate adequacy of facilities and displays to support emergency operations.

B. Notification and Mobilization of Key Personnel and Staff

1. Demonstrate the ability of the Shoreham Nuclear Power Station staff to properly classify actual or potential emergencies in accordance with LILCO Emergency Plan Implementing Procedures.
2. Demonstrate the capability of the Shoreham Nuclear Power Station Emergency Response Organization to notify the Local Emergency Response Organization (LERO) through the established notification system.
3. Demonstrate the capability of the Shoreham Nuclear Power Station Emergency Response Organization and LERO to notify emergency response personnel.
4. Demonstrate the capability of the Shoreham Nuclear Power Station Emergency Response Organization and LERO to mobilize staff and activate the emergency response facilities in a timely manner and maintain staffing around the clock.
5. Demonstrate, as appropriate the ability to identify the need for, notify and request assistance from Federal agencies.
6. Demonstrate, as appropriate, the notification of and coordination with counties and states within the ingestion pathway EPZ and with agencies such as FEMA, NRC, DOE, Red Cross, Federal Aviation Administration, and Coast Guard.

C. Emergency Operations Management

1. Demonstrate the capability of the Shoreham Nuclear Power Station Emergency Response Organization and LERO to implement their radiological emergency preparedness plans.
2. Demonstrate the ability of key emergency personnel within the Shoreham Nuclear Power Station Emergency Response Organization and LERO to initiate, coordinate and implement timely and effective decisions during a radiological emergency and clearly demonstrate "who is in charge."

3. Demonstrate that there is effective organizational direction and control and integrated radiological emergency response including deployment of field monitors, acquisition, receipt and analysis of field data.
4. Demonstrate the capability to coordinate actions (internally/externally) among organizations in order to obtain support and to make appropriate decisions.
5. Demonstrate the capability of responsible personnel to recommend and/or implement appropriate protective actions.

D. Public Alerting and Notification

1. Demonstrate that the Shoreham Nuclear Power Station (SNPS) Emergency Response Organization and LERO authorities can effectively provide accurate information to the public in a timely fashion.
2. Demonstrate the capability of LERO to activate the prompt notification system within 15 minutes of the decision to implement protective actions to simulate using sirens, EBS and tone alert radios. In addition, demonstrate the capability of LERO to implement route alerting and simulate the notification provided by the United States Coast Guard to boaters.
3. Demonstrate the capability of the SNPS Emergency Response Organization and LERO to provide initial and follow up information to the public in a timely fashion.

E. Public and Media Relations

1. Demonstrate staffing of the Emergency News Center by Shoreham Nuclear Power Station Emergency Response Organization and LERO personnel and the capability to issue coordinated periodic public information releases.
2. Demonstrate ability to provide rumor control and responses to inquiries from the general public in a coordinated fashion.
3. Demonstrate the ability to provide clear, timely and accurate briefings to the news media and public relative to the emergency at the Shoreham Nuclear Power Station.

F. Accident Assessment

1. Demonstrate the ability of both the Shoreham Nuclear Power Station Emergency Response Organization and LERO to receive and assess radiological data.
2. Demonstrate the ability of Shoreham Nuclear Power Station Emergency Response Organization and LERO to respectively project and compare dose projections to the public via the plume exposure pathway, compare their projections to the Protective Action Guides, available shelter, evacuation time estimates and determine appropriate protective action recommendations.

3. Demonstrate the ability of LERO to project doses to the public via the ingestion pathway and to determine appropriate protective measures based on PAG's and other relevant factors.
4. Demonstrate the activation, equipment and procedures of both the Shoreham Nuclear Power Station Emergency Response Organization and LERO field radiation monitoring teams.
5. Demonstrate the ability of in-plant personnel to safely draw and analyze post-accident liquid and gaseous samples.
6. Demonstrate equipment and procedures for measurement of airborne radioiodine concentrations as low as 10^{-7} uCi/cc in the presence of noble gases.

G. Actions to Protect the Public

1. Demonstrate the implementation of appropriate protective action response options by LERO, including (all sheltering and evacuation to be simulated):
 - ° Sheltering and evacuation of offsite areas including schools and special facilities;
 - ° Informing the public on the development of the accident and any required protective actions;
 - ° Identification, notification and evacuation of non-institutionalized mobility-impaired persons;
 - ° Analyzing and determining ingestion exposure pathway considerations;
 - ° Provision for removal of impediments from evacuation routes;
 - ° Provision to guide traffic during a simulated evacuation;
 - ° Provision to evacuate members of the public without transportation;
 - ° Activation of Reception Center;
 - ° Coordination with the American Red Cross for the provision of Congregate Care Centers.
2. Demonstrate the capability of emergency personnel to identify requirements, evaluate data and implement procedures for re-entry.
3. Demonstrate the capability of emergency personnel to identify requirements, programs and policies governing recovery.
4. Demonstrate ability to effect an orderly evacuation of protected area personnel (on site only).
5. Demonstrate adequacy of procedures for registration and radiological monitoring of evacuees (off site only).

H. Health, Medical and Exposure Control Measures

1. Demonstrate the decision making process for limiting exposure of emergency workers.
2. Demonstrate processing of local emergency workers and vehicles through personnel monitoring and decontamination facility.
3. Demonstrate the decision making process for recommending the use of Potassium Iodide for emergency workers.
4. Demonstrate methods and resources for distributing dosimetry and thyroid blocking agents, if appropriate, to emergency workers.
5. Demonstrate the record keeping of radiation exposure and use of dosimetry and thyroid blocking agents for the protection of emergency workers.
6. Demonstrate knowledge, on the part of the emergency worker, of dosimetry and Potassium Iodide usage procedures and of the individual authorized to allow worker exposures above permissible limits.

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SHOREHAM/LERO PLAN
EXERCISE OBJECTIVE WORKSHEET

FEMA Core Objective*	LERO Objective(s)
1. Demonstrate ability to mobilize staff and activate facilities promptly.	B.4
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.	A.1, B.4
3. Demonstrate ability to make decisions and to coordinate emergency activities.	C.2
4. Demonstrate adequacy of facilities and displays to support emergency operations.	A.10
5. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.	A.3,4,6
6. Demonstrate ability to mobilize and deploy field monitoring teams in a timely fashion.	A.6
7. Demonstrate appropriate equipment and procedures for determining ambient radiation levels.	F.4
8. Demonstrate appropriate equipment and procedures for measurement of airborne radiiodine concentrations as low as 10^{-7} uCi/CC in the presence of noble gases.	F.6

* Source - Modular Format for Uniformity of Radiological Emergency Preparedness Exercise Observations and Evaluations (June 1983) Attachment 2 to letter from Dave McLoughlin (Deputy Associate Director, State and Local Programs Support) to Regional Directors, Acting Regional Directors, Regions III, V; Concerning Procedural Policy on Radiological Emergency Preparedness Plan Reviews, Exercise Observations and Evaluations, and Interim Findings.

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EXERCISE OBJECTIVE WORKSHEET

FEMA Core Objective	LERO Objective(s)
9. Demonstrate appropriate equipment and procedures for collection, transport and analysis of samples of soil, vegetation, snow, water, and milk.	
10. Demonstrate ability to project dosage to the public via plume exposure, based on plant and field data, and to determine appropriate protective measures based on PAG's, available shelter evacuation time estimates, and all other appropriate factors	F.2
11. Demonstrate ability to project dosage to the public via ingestion pathway exposure based on field data, and to determine appropriate protective measures based on PAG's and other relevant factors.	F.3
12. Demonstrate ability to implement protective actions for ingestion pathway hazards.	
13. Demonstrate ability to alert the public within the 10-mile EPZ, and disseminate an initial instructional message within 15 minutes.	D.2, 3
14. Demonstrate ability to formulate and distribute appropriate instructions to the public in a timely fashion.	D.1, E.3, G.1
15. Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of all or part of the plume EPZ.	G.1

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EXERCISE OBJECTIVE WORKSHEET

FEMA Core Objective	LERO Objective(s)
25. Demonstrate ability to provide advance coordination of information released.	E.1
26. Demonstrate ability to establish and operate rumor control in a coordinated fashion.	E.2
27. Demonstrate adequacy of procedures for registration and radiological monitoring of evacuees.	G.5
28. Demonstrate adequacy of facilities for mass care of evacuees.	
29. Demonstrate adequate equipment and procedures for decontamination of emergency workers, equipment and vehicles.	H.2
30. Demonstrate adequacy of ambulance facilities and procedures for handling contaminated individuals.	
31. Demonstrate adequacy of hospital facilities and procedures for handling contaminated individuals.	
32. Demonstrate ability to identify need for, request, and obtain Federal assistance.	C.4
33. Demonstrate ability to relocate to and operate the alternate EOF/EOC.	Not applicable
34. Demonstrate ability to estimate total population exposure.	
35. Demonstrate ability to determine and implement appropriate measures for controlled recovery and reentry.	G.2, 3

Date: 11/9/84

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EXERCISE OBJECTIVE WORKSHEET

FEMA Core Objective	LERO Objective(s)
16. Demonstrate the organizational ability and resources necessary to deal with impediments to evacuation, such as inclement weather or traffic obstructions.	G.1
17. Demonstrate the organizational ability and resources necessary to control access to an evacuated area.	
18. Demonstrate the organizational ability and resources necessary to effect an orderly evacuation of mobility-impaired individuals within the plume EPZ.	G.1
19. Demonstrate the organizational ability and resources necessary to effect an orderly evacuation of schools within the plume EPZ.	G.1
20. Demonstrate ability to continuously monitor and control emergency worker exposure.	H.5, 6
21. Demonstrate the ability to make the decision, based on predetermined criteria, whether to issue KI to emergency workers and/or the general population.	H.3
22. Demonstrate the ability to supply and administer KI, once the decision has been made to do so.	H.4
23. Demonstrate ability to effect an orderly evacuation of onsite personnel.	G.4
24. Demonstrate ability to brief the media in a clear, accurate and timely manner.	E.3