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ACCESSION NBR: 9702280075    DOC. DATE: 97/02/21    NOTARIZED: NO    DOCKET #  
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       50-251 Turkey Point Plant, Unit 4, Florida Power and Light C    05000251  
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SUBJECT: Forwards util scope & objectives for 1997 Turkey Point annual emergency preparedness exercise.

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L-97-042  
10 CFR 50 Appendix E

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

Gentlemen:

Re: Turkey Point Units 3 and 4  
Docket Nos. 50-250 and 50-251  
Emergency Exercise - May 1997

This letter forwards Florida Power & Light Company's (FPL) scope and objectives for the 1997 Turkey Point annual emergency preparedness exercise. The objectives were developed in conjunction with state and local governments. The exercise is scheduled for May 13 & 14, 1997; and will involve participation by local emergency response agencies and state emergency response personnel.

If there are any questions or comments concerning the attached information, please contact Mr. John Kirkpatrick at (305) 246-6226.

Very truly yours,

R. J. Hovey  
Vice President  
Turkey Point Plant

CLM

Attachments

cc: Luis A. Reyes, Regional Administrator, Region II, USNRC  
T. P. Johnson, Senior Resident Inspector, USNRC, Turkey Point Plant  
K. P. Barr, Emergency Preparedness Section Chief, Region II, USNRC

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**FLORIDA POWER & LIGHT COMPANY  
TURKEY POINT NUCLEAR PLANT  
1997 EMERGENCY PREPAREDNESS  
EVALUATED EXERCISE  
MAY 13 & 14, 1997**

**SCOPE**

To assure that the health and safety of the general public is protected in the event of an accident at Turkey Point Nuclear Plant, Florida Power & Light Company (FPL) conducts an annual emergency preparedness exercise. This exercise involves mobilization of FPL, State of Florida, Dade County, Monroe County, and Collier County personnel and resources to respond to a simulated accident scenario. A Controller organization will control, observe, evaluate and critique the exercise to assess the emergency response capabilities of the utility and government agencies. An FPL Controller Organization will control, observe, evaluate, and critique the PTN portion of the Exercise. The FPL Emergency Response Organization (ERO) and Controller Organization will be evaluated by the Nuclear Regulatory Commission. The State of Florida, Dade County, Monroe County, and Collier County emergency response organizations will be evaluated by the Federal Emergency Management Agency.

Due to the compressed timeline of the exercise, some portions of the FPL ERO may be pre-positioned. All onsite Emergency Response Facilities will be activated in accordance with simulated conditions and appropriate emergency response procedures for the exercise. Exercise participants ("players") will not have any prior knowledge of the simulated accident events, operational sequence, radiological effluents, or weather conditions.

The exercise incorporates the following:

Radiological Monitoring Drill - both onsite and offsite teams will be dispatched during the exercise to obtain required air samples and measurements associated with a simulated offsite release of radioactivity, and communicate these results to the appropriate Emergency Response Facility. (Field monitoring team protective clothing and respiratory protection will be simulated.)

Health Physics Drill - involves the response to, and analysis of, simulated elevated activity airborne or liquid samples; radiation exposure control; emergency dosimetry; and the use of protective equipment onsite.

Communications Drill - actual use of emergency response communications links and equipment to demonstrate their integrity.

Medical Drill - involves a simulated contaminated individual, with provisions for participation by local support services.

The preceding sub-drills are incorporated into the exercise scenario and will be demonstrated concurrently in the course of the exercise. The overall intent of the exercise is to demonstrate that the FPL ERO is adequately trained to perform in accordance with the Emergency Plan and its implementing procedures. Additionally, the scenario assists the State and local government agencies in demonstrating that they are adequately trained to perform in accordance with their emergency plans and procedures.

**FLORIDA POWER & LIGHT COMPANY  
TURKEY POINT NUCLEAR PLANT  
1997 EMERGENCY PREPAREDNESS  
EVALUATED EXERCISE  
MAY 13 & 14, 1997**

**OBJECTIVES**

The Turkey Point Nuclear Plant (PTN) emergency preparedness exercise objectives are based upon Nuclear Regulatory Commission requirements provided in 10 CFR 50.47, *Emergency Plans*, 10 CFR 50, Appendix E, *Emergency Planning and Preparedness for Production and Utilization Facilities*, and NRC Inspection Manual, Inspection Procedure 82302, *Review of Exercise Objectives and Scenarios for Power Reactors*. Additional guidance provided in NUREG-0654, FEMA-REP-1, Revision 1, *Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants*, was used in developing the objectives. The exercise will be conducted and evaluated using a realistic basis for activities.

The following objectives are consistent with the referenced planning documents:

**A. Exercise Planning**

1. Conduct an exercise of the PTN Emergency Plan.
2. Provide an opportunity for the State of Florida and Dade, Collier, and Monroe Counties to participate in an exercise.
3. Prepare an exercise information package to include:
  - a. The objectives of the exercise and appropriate evaluation criteria.
  - b. The date, time period, place, and a list of participating organizations
  - c. The simulated sequence of events.
  - d. The time schedule of real and simulated initiating events.
  - e. The narrative summary.
4. Conduct a critique of the exercise and prepare an evaluation report.
5. Demonstrate that corrective actions are tracked until completion.

B. Emergency Organizations, Support, and Resource

1. Demonstrate the prompt activation, adequacy of the staffing, and set up (as appropriate) of emergency response facilities as follows:
  - Control Room
  - Technical Support Center (TSC)
  - Operations Support Center (OSC)
  - Emergency Operations Facility (EOF)
  - Emergency News Center (ENC)
2. Demonstrate the capability of the FPL Emergency Response Organization (ERO) to implement their Emergency Plan Implementing Procedures.
3. Demonstrate the ability of the Emergency Response Facility Managers and Supervisors to provide overall direction, including "command and control" by initiating, coordinating, and implementing timely and effective decisions during a radiological emergency.
4. Demonstrate the ability to effectively transfer command and control of emergency response functions from the Control Room to the TSC and EOF.
5. Demonstrate the provisions for continuous staffing of the emergency facilities.
6. Demonstrate the interface capability between the FPL ERO and the State of Florida, Dade, Monroe, and Collier Counties, for effective response coordination to a radiological emergency and adequate protection of the health and safety of the public.
7. Demonstrate the ability to control access to emergency facilities.
8. Demonstrate the ability to provide a liaison at each participating offsite governmental Emergency Operations Center (EOC).
9. Demonstrate adequacy of designated facilities and equipment to support emergency operations.
10. Demonstrate, as appropriate, the ability to identify the need for, notify, and request assistance from Federal agencies.
11. Demonstrate the availability of outside support agencies and organizations who may be requested to provide assistance in an emergency.
12. Demonstrate the ability of corporate personnel to augment the ERO and support the plant staff.
13. Demonstrate the ability to notify emergency response personnel.



C. Accident Assessment and Classification

1. Demonstrate the availability of methods, equipment, and expertise to make rapid assessments of the consequences of any radiological hazards, including the dispatch and coordination of Field Monitoring Teams.
2. Demonstrate the ability to recognize Emergency Action Levels and properly classify emergencies in accordance with the Emergency Plan Implementing Procedures.

D. Notification and Communication

1. Demonstrate the ability to notify offsite emergency organizations within 15 minutes of each emergency classification.
2. Demonstrate the ability to notify the NRC of any emergency classification within one hour of the declaration.
3. Demonstrate the ability to notify FPL Emergency Response Organization personnel.
4. Demonstrate the ability to develop and send timely information to State and local authorities as required by the Emergency Plan.
5. Demonstrate the ability to communicate among the Control Room, TSC, OSC, EOF, and ENC, as appropriate.
6. Demonstrate that adequate communication capabilities exist between FPL and the State and local EOC's.
7. Demonstrate the adequacy of communications capabilities between the Emergency Response Facilities and the offsite radiation monitoring teams.
8. Demonstrate the ability to communicate among the Control Room, TSC, EOF, and NRC Operations Center.

E. Radiological Consequence Assessment

1. Demonstrate methods and techniques for determining the source term of releases or potential releases of radioactive material.
2. Demonstrate the adequacy of methods and techniques for determining the magnitude of the releases of radioactive materials, based on plant system parameters and effluent monitors.
3. Demonstrate the ability to estimate integrated dose from projected or actual dose rates, and to formulate Protective Action Recommendations.



Attachment 2

4. Demonstrate the ability to monitor and control emergency worker radiation exposure, and to implement exposure guidelines, as appropriate.
5. Demonstrate the availability of respiratory protection and protective clothing for onsite emergency response personnel.
6. Demonstrate the availability of a procedural mechanism to expeditiously evaluate risks and authorize emergency workers to receive doses in excess of 10 CFR 20 limits, as appropriate.
7. Demonstrate the capability for onsite contamination control.
8. Demonstrate the ability to decontaminate onsite personnel, as appropriate.
9. Demonstrate the capability to transport a contaminated injured person offsite.
10. Demonstrate the capability for onsite and offsite radiological monitoring, to include collection and analysis of sample media, and provisions for communications and record keeping.
11. Demonstrate the capability to collect and prepare for shipment simulated elevated airborne or liquid samples, as required.
12. Demonstrate the capability to use the Post Accident Sampling System (walk-through/simulate).
13. Demonstrate the capability to analyze simulated fluid samples and provide the isotopic and chemical results of the analysis within three hours of the time the sample was first requested.

F. Protective Action

1. Demonstrate the ability to recommend protective actions to appropriate offsite authorities.
2. Demonstrate the ability to advise individuals onsite, or in owner controlled areas, of emergency conditions.
3. Demonstrate the ability to conduct search and rescue procedures for persons identified as missing during accountability procedures.

G. Public Information

1. Demonstrate the operations of the ENC, and the availability of space for the media.



H. Recovery Operations

1. Demonstrate the availability of procedures to support re-entry and recovery.
  - a. De-escalation/termination from the emergency phase, and transition to recovery phase.
  - b. Inform the State of the opportunity to reduce the need for protective actions.
2. Demonstrate the availability of corporate technical support for planning and re-entry/recovery organizations.

I. Exemptions

Areas of the PTN Emergency Plan that will NOT be demonstrated during this exercise include:

1. Site evacuation and relocation of non-essential personnel.
2. Onsite personnel accountability. Security will demonstrate accountability through the use of simulated personnel rosters.
3. Actual shift turnover (long term shift assignments will be demonstrated by rosters).
4. Real time activation of the EOF non-PTN responders.
5. Actual drawing of a sample utilizing the Post Accident Sampling System.