

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA 19101

(215) 841-5001

May 25, 1988

JOSEPH W. GALLAGHER  
VICE PRESIDENT  
NUCLEAR SERVICES

Docket Nos. 50-277  
50-278

William J. Lazarus  
Chief, Emergency Preparedness Section  
Region I  
Office of Inspection & Enforcement  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

SUBJECT: Peach Bottom Atomic Power Station  
1988 Emergency Preparedness Exercises

Dear Mr. Lazarus:

Peach Bottom Atomic Power Station expects to conduct the Annual Emergency Preparedness Exercise during the week of September 12, 1988. This exercise will be an unannounced full scale exercise.

The objectives related to Philadelphia Electric Company's emergency response are provided for your review. The objectives relating to State and County emergency responses are being submitted by the Pennsylvania Emergency Management Agency, and Maryland Emergency Management and Civil Defense Agency.

Please contact us if you have any concerns or comments relating to Philadelphia Electric Company's objectives.

Very truly yours,

*JW Gallagher*

88100400210  
PRR ADDUC

880525  
277  
VBC

Enclosures

cc: D. F. Taylor (PEMA)  
T. Gerusky (BRP)  
J. McCarey (FEMA)  
NRC Document Control Desk  
T. P. Johnson, Senior PB Resident Inspector

A045.11  
~~IX49~~  
11

**PHILADELPHIA ELECTRIC COMPANY  
EMERGENCY RESPONSE OBJECTIVES FOR THE 1988  
NRC/FEMA OBSERVED EMERGENCY RESPONSE EXERCISE**

In order to demonstrate the radiological emergency response preparedness of the Peach Bottom Atomic Power Station, the Philadelphia Electric Company (PECo), the Pennsylvania Emergency Management Agency (PEMA), the Maryland Emergency Management and Civil Defense Agency (MEM&CA), and the surrounding local jurisdictions, an integrated radiological emergency response exercise will be conducted.

The PECO objectives for the exercise are as follows:

**A. Operational Assessment**

1. Demonstrate the Control Room staff's ability to recognize operational symptoms and parameters indicative of degrading plant conditions with respect to established emergency action levels.
2. Demonstrate the ability to properly classify emergency conditions.
3. Demonstrate the ability to properly escalate the emergency response based upon event classification.
4. Demonstrate the adequacy of the PBAPS Emergency Plan Implementing Procedures applicable to the scenario.

**B. Communications**

1. Demonstrate that appropriate and reliable communications exist to accomplish timely notification of off-site agencies and to maintain communications.
2. Demonstrate that organizations outside PECO that provide assistance can be notified as appropriate.
3. Demonstrate procedures for timely mobilization of emergency response personnel.
4. Demonstrate the ability to effectively communicate with emergency teams in-plant and out-of-plant.
5. Demonstrate proper recordkeeping and data display in emergency response facilities.
6. Demonstrate that messages are transmitted in an accurate and timely manner; that messages are properly logged; that status boards are accurately maintained and updated.
7. Demonstrate that appropriate briefings are held and incoming personnel are briefed and updated.

### **C. Radiological and Environmental Assessment**

1. Properly assess radiological data to formulate accurate off-site radiological dose projections.
2. Demonstrate the use of post-accident sampling equipment to obtain, transport, and analyze simulated samples under conditions involving fuel damage.
3. Demonstrate the ability to evaluate field radiological monitoring data, off-site radiological dose projections and plant conditions, to arrive at appropriate protective action recommendation.
4. Demonstrate the activation, operation, and reporting of the field monitoring teams within and beyond the site boundary.
5. Demonstrate the capability to perform radiological monitoring activities and assessments.
6. Demonstrate effective coordination of the radiological and environmental assessment process with the Pennsylvania Bureau of Radiation Protection and Maryland Department of Environment, Center for Radiological Health.
7. Demonstrate the ability to support the radiological assessment process while maintaining personnel radiation exposure ALARA.

### **D. Emergency Response Facilities**

1. Demonstrate that sufficient and adequate emergency equipment exists to effectively perform necessary emergency actions.
2. Demonstrate that adequate security of facilities can be maintained.
3. Demonstrate the ability of station and corporate personnel to activate and staff the emergency response facilities as appropriate for the existing emergency class and to transfer functional responsibilities to the appropriate operations center when escalating or de-escalating to a different emergency class.

### **E. Public Information**

1. Demonstrate proper and timely notification of the Emergency News Center.
2. Demonstrate the ability to develop and disseminate timely and accurate news releases.
3. Demonstrate that briefings concerning plant events are provided to the media during the emergency.
4. Demonstrate that public information is coordinated between PECO and off-site officials.

## **F. PECo Organization**

1. Demonstrate that sufficient PECO emergency personnel are available to support the emergency response on a round-the-clock coverage schedule and to do so in an unannounced manner.
2. Exhibit timely and proper response of emergency personnel to activate emergency response facilities and carry out assigned roles and responsibilities.
3. Display proper transfer of responsibility between: "on shift" and incoming emergency personnel.
4. Demonstrate the ability to turn over command and control responsibilities between the Shift Supervision, Emergency Director, and Emergency Response Manager.
5. Demonstrate the ability to discuss the establishment and implementation of the Recovery Organization in accordance with procedure.

## **G. Personnel Protection**

1. Demonstrate the ability to provide safe and timely on-site access to local off-site emergency services.
2. Demonstrate the ability to conduct area surveys under emergency conditions.
3. Demonstrate the ability to provide adequate radiation protection services such as dosimetry and personnel monitoring.
4. Demonstrate the decision-making process for consideration of thyroid-blocking agent distribution to emergency personnel.
5. Demonstrate proper radiation exposure recordkeeping for emergency personnel.
6. Demonstrate the ability to properly and safely respond to a fire.

## **H. General**

1. Demonstrate the ability to self-critique and to identify areas needing improvement.
2. Demonstrate that previously identified deficiencies have been resolved.

**PHILADELPHIA ELECTRIC COMPANY  
EMERGENCY RESPONSE OBJECTIVES FOR THE 1988  
NRC/FEMA OBSERVED EMERGENCY RESPONSE EXERCISE**

In order to demonstrate the radiological emergency response preparedness of the Peach Bottom Atomic Power Station, the Philadelphia Electric Company (PECo), the Pennsylvania Emergency Management Agency (PEMA), the Maryland Emergency Management and Civil Defense Agency (MEM&CA), and the surrounding local jurisdictions, an integrated radiological emergency response exercise will be conducted.

The PECo objectives for the exercise are as follows:

**A. Operational Assessment**

1. Demonstrate the Control Room staff's ability to recognize operational symptoms and parameters indicative of degrading plant conditions with respect to established emergency action levels.
2. Demonstrate the ability to properly classify emergency conditions.
3. Demonstrate the ability to properly escalate the emergency response based upon event classification.
4. Demonstrate the adequacy of the PBAPS Emergency Plan Implementing Procedures applicable to the scenario.

**B. Communications**

1. Demonstrate that appropriate and reliable communications exist to accomplish timely notification of off-site agencies and to maintain communications.
2. Demonstrate that organizations outside PECo that provide assistance can be notified as appropriate.
3. Demonstrate procedures for timely mobilization of emergency response personnel.
4. Demonstrate the ability to effectively communicate with emergency teams in-plant and out-of-plant.
5. Demonstrate proper recordkeeping and data display in emergency response facilities.
6. Demonstrate that messages are transmitted in an accurate and timely manner; that messages are properly logged; that status boards are accurately maintained and updated.
7. Demonstrate that appropriate briefings are held and incoming personnel are briefed and updated.

### **C. Radiological and Environmental Assessment**

1. Properly assess radiological data to formulate accurate off-site radiological dose projections.
2. Demonstrate the use of post-accident sampling equipment to obtain, transport, and analyze simulated samples under conditions involving fuel damage.
3. Demonstrate the ability to evaluate field radiological monitoring data, off-site radiological dose projections and plant conditions, to arrive at appropriate protective action recommendation.
4. Demonstrate the activation, operation, and reporting of the field monitoring teams within and beyond the site boundary.
5. Demonstrate the capability to perform radiological monitoring activities and assessments.
6. Demonstrate effective coordination of the radiological and environmental assessment process with the Pennsylvania Bureau of Radiation Protection and Maryland Department of Environment, Center for Radiological Health.
7. Demonstrate the ability to support the radiological assessment process while maintaining personnel radiation exposure ALARA.

### **D. Emergency Response Facilities**

1. Demonstrate that sufficient and adequate emergency equipment exists to effectively perform necessary emergency actions.
2. Demonstrate that adequate security of facilities can be maintained.
3. Demonstrate the ability of station and corporate personnel to activate and staff the emergency response facilities as appropriate for the existing emergency class and to transfer functional responsibilities to the appropriate operations center when escalating or de-escalating to a different emergency class.

### **E. Public Information**

1. Demonstrate proper and timely notification of the Emergency News Center.
2. Demonstrate the ability to develop and disseminate timely and accurate news releases.
3. Demonstrate that briefings concerning plant events are provided to the media during the emergency.
4. Demonstrate that public information is coordinated between PECO and off-site officials.

## **F. PECo Organization**

1. Demonstrate that sufficient PECO emergency personnel are available to support the emergency response on a round-the-clock coverage schedule and to do so in an unannounced manner.
2. Exhibit timely and proper response of emergency personnel to activate emergency response facilities and carry out assigned roles and responsibilities.
3. Display proper transfer of responsibility between "on shift" and incoming emergency personnel.
4. Demonstrate the ability to turn over command and control responsibilities between the Shift Supervision, Emergency Director, and Emergency Response Manager.
5. Demonstrate the ability to discuss the establishment and implementation of the Recovery Organization in accordance with procedure.

## **G. Personnel Protection**

1. Demonstrate the ability to provide safe and timely on-site access to local off-site emergency services.
2. Demonstrate the ability to conduct area surveys under emergency conditions.
3. Demonstrate the ability to provide adequate radiation protection services such as dosimetry and personnel monitoring.
4. Demonstrate the decision-making process for consideration of thyroid-blocking agent distribution to emergency personnel.
5. Demonstrate proper radiation exposure recordkeeping for emergency personnel.
6. Demonstrate the ability to properly and safely respond to a fire.

## **H. General**

1. Demonstrate the ability to self-critique and to identify areas needing improvement.
2. Demonstrate that previously identified deficiencies have been resolved.

RRG, 1m  
05/88