



Commonwealth Edison
1400 Opus Place
Downers Grove, Illinois 60515

September 17, 1990

Mr. A. Beri Davis
Regional Administrator
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Quad Cities Nuclear Station Units 1 and 2
"Transmittal of Objectives and Scope of
Participation for December 5, 1990 Generating Station
Emergency Plan (GSEP) Exercise"
NRC Docket Nos. 50-254 and 50-265

Dear Mr. Davis:

Enclosed are the Objectives and Scope of Participation for the Quad Cities Nuclear Power Station GSEP Exercise to be conducted December 5, 1990. These scenario documents are submitted in accordance with NRC and FEMA requirements.

Questions regarding the Quad Cities Scope of Participation or Objectives can be discussed with Robert Haight at (312) 294-8517 or Robert Carson at (312) 294-8662.

Very truly yours,

T. K. Schuster
Nuclear Licensing Administrator

Enclosures

cc: W. Snell - Region III
NRC Document Control Desk

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QUAD CITIES NUCLEAR POWER STATION
1990 GSEP EXERCISE

December 5, 1990

OBJECTIVES

PRIMARY OBJECTIVE:

Commonwealth Edison will demonstrate the ability to implement the Generating Station Emergency Plan (GSEP) to provide for protection of the public health and safety in the event of a major accident at the Quad Cities Nuclear Power Station. The 1990 demonstration will be conducted during the hours which qualify as a daytime exercise in accordance with NRC guidelines.

SUPPORTING OBJECTIVES:

- 1) Assessment and Classification
 - a. Given information provided by the exercise scenario, demonstrate the ability to assess initiating conditions which warrant a GSEP Classification within fifteen (15) minutes.
- (CR, TSC, EOF)
 - b. Demonstrate the ability to determine which Emergency Action Levels (EALs) are applicable within fifteen (15) minutes of determination of the initiating conditions warranting classification.
- (CR, TSC, EOF)
- 2) Notification and Communications
 - a. Demonstrate the ability to correctly fill out a NARS form in accordance with EIPs or EOF procedures.
- (CR, TSC, EOF)
 - b. Demonstrate the ability to make applicable notifications to offsite State and local organizations within fifteen (15) minutes of making a GSEP classification.
- (CR, TSC, EOF)
 - c. Demonstrate the ability to correctly fill out an ENS Notification Worksheet in accordance with EIPs or EOF procedures.
- (CR, TSC, EOF)
 - d. Demonstrate the ability to notify the NRC immediately after the State notifications and within one (1) hour of the GSEP Emergency classification.
- (CR)

2) Notification and Communications (cont'd)

- e. Demonstrate the ability to provide information updates to the State at least hourly and within thirty (30) minutes of changes in monitored conditions.
- (CR, TSC, EOF)
- f. Demonstrate the capability to contact appropriate support organizations that would be available to assist in an actual emergency within one (1) hour of conditions warranting their assistance.
- (TSC, EOF)
- g. Demonstrate the ability to maintain an open-line of communication with the NRC or ENS upon request.
- (TSC, EOF)
- h. Demonstrate the ability to maintain an open-line of communication with the NRC or HPN upon request.
- (TSC, EOF)
- i. Demonstrate the ability to provide information updates to the NRC at least hourly and within thirty (30) minutes of changes in monitored conditions.
- (CR, TSC, EOF)
- j. Demonstrate the ability to provide adequate informational announcements (i.e.; declaration of emergency, classification, assembly instructions, significant events, changes to plant conditions, etc.) over the public address system in the plant.
- (CR, TSC)
- k. Demonstrate the ability to provide all pertinent information (i.e.; job priorities, change of command and control, significant events and changes in plant conditions, etc.) to the OSC
- (CR, TSC)
- l. Demonstrate the ability of L&Co and State Environs personnel to exchange Field Team information.
- (TSC, EOF)

3) Emergency Facilities

- a. Demonstrate the ability to staff and activate the on-site Emergency Response Facilities within thirty (30) minutes of the Alert classification in accordance with EIPs.
- (TSC, OSC)
- b. Demonstrate the ability to augment the Control Room staff within thirty (30) minutes of an appropriate GSEP classification in accordance with the EIPs.
- (CR)

3) Emergency Facilities (cont'd)

- d. Using information supplied by the exercise scenario, demonstrate the ability to record, track and update information on Status Boards at least every thirty (30) minutes.
- (TSC, OSC, EOF)
- e. Demonstrate the ability to document and track all Operations and Maintenance team activities in logs and on appropriate Status Boards.
- (CR, TSC, OSC)
- f. Demonstrate the ability to provide station activity updates to the EOF at least every thirty (30) minutes.
- (TSC)
- g. Demonstrate the use of electronic Status Boards.
- (TSC, EOF)

4) Emergency Direction and Control

- a. Demonstrate the ability of the individuals in the Emergency Response Organization to perform their assigned duties and responsibilities as specified in Generic GSEP and position-specific procedures.
- (CR, TSC, OSC, EOF, JPIC)
- b. Demonstrate the ability of the Managers and Directors to exert command and control in their respective areas of responsibility as specified in Generic GSEP and position-specific procedures.
- (CR, TSC, OSC, EOF, JPIC)
- c. Demonstrate continued awareness of EAL Classifications and significant event status after command and control has been transferred.
- (CR, TSC)
- d. Demonstrate the ability to coordinate Operations and Maintenance activities during abnormal and emergency situations.
- (CR, TSC, OSC)
- e. Demonstrate the ability to prioritize in-plant Maintenance activities during abnormal and emergency situations.
- (CR, TSC, OSC)
- f. Demonstrate the ability to requisition, acquire and transport emergency equipment and supplies necessary to mitigate or control unsafe or abnormal plant conditions.
- (CR, TSC, EOF)

4) Emergency Direction and Control (cont'd)

- g. Demonstrate the ability to properly brief and dispatch the Environs teams within forty-five (45) minutes of determination of the need for field samples.
- (TSC, OSC)
- h. Demonstrate the ability to control and coordinate Environs team(s) activities in accordance with ED and EG procedures.
- (TSC, EOF)
- i. Demonstrate the ability to transfer control and coordination of Environs team(s) activities in accordance with Station EIPs and EOF procedures.
- (TSC, EOF)
- j. Demonstrate the ability to release emergency response workers to perform their response duties.
- (OSC)
- k. Demonstrate the ability to promptly identify and release OSC Response Teams who have been assigned priority work in the plant.
- (OSC, TSC)
- l. Demonstrate the ability of Emergency Response Facility management to provide briefings and updates concerning plant status, event classification and activities in progress at least every thirty (30) minutes.
- (CR, TSC, OSC, EOF)
- m. Demonstrate the ability to provide access for a Mock NRC Site team in accordance with access control procedures.
- (TSC, EOF)
- n. Demonstrate the ability to interface with a Mock NRC Site team.
- (TSC, EOF)

5) Radiological Assessment and Protective Actions

- a. Demonstrate the ability to trend plant radiological survey information for conditions presented in the exercise scenario.
- (TSC, OSC, EOF)
- b. Demonstrate the ability to collect and document all radiological surveys taken for conditions presented in the exercise scenario.
- (OSC)

5) Radiological Assessment and Protective Actions (cont'd)

- c. Demonstrate the ability to take appropriate protective actions for on-site personnel in accordance with station EIPs.
- (TSC, OSC)
- d. Demonstrate the ability to adequately prepare and brief personnel for entry into a High Radiation Area in accordance with Station procedures and policies.
- (TSC, OSC)
- e. Demonstrate the ability to issue and administratively control dosimetry to the teams dispatched from the OSC in accordance with established policies and station procedures.
- (OSC)
- f. Demonstrate the ability to establish radiological controls in accordance with established Health Physics policies and plant procedures.
- (OSC)
- g. Demonstrate the ability to monitor, track and document radiation exposure to in-plant Operations and Maintenance teams in accordance with established policies and plant procedures.
- (OSC)
- h. Demonstrate the ability to establish radiological monitoring and controls of assembly areas in accordance with established policies and plant procedures.
- (OSC)
- i. Using information provided by the exercise scenario, demonstrate the ability to calculate offsite dose projections in accordance with appropriate procedures, programs and guidances.
- (TSC, EOF)
- j. Demonstrate the ability to make appropriate Protective Action Recommendations (PARs) within ten (10) minutes of determining an offsite dose projection or using an emergency classification flowchart.
- (CR, TSC, EOF)
- k. Demonstrate the ability to perform decontamination of radioactively contaminated individuals in accordance with established policies and procedures.
- (OSC)
- l. Demonstrate the ability to collect RCS and Containment Atmosphere samples using the Post Accident Sample System (PASS) equipment in accordance with PASS procedures and proper Health Physics controls.
- (OSC)

5) Radiological Assessment and Protective Actions (cont'd)

- m. Demonstrate the ability to analyze RCS and Containment Atmosphere samples using appropriate analysis equipment in accordance with PASS procedures and proper Health Physics controls.
- (OSC)

Given information obtained from the PASS results, demonstrate the ability to perform a core damage assessment in accordance with EIPs.
- (TSC)

- o. Demonstrate the ability to collect field samples in accordance with Environmental Sampling procedures.
- (Field Teams)
- p. Demonstrate the ability to perform field sample analysis in accordance with Environmental Sampling procedures.
- (Field Teams)
- q. Demonstrate the ability to document, trend and assess field sample results in accordance with Environmental Sampling procedures.
- (TSC, EOF)

6) First Aid Actions

- a. Demonstrate the ability of a First Aid Team to promptly respond to the scene and evaluate the situation within fifteen (15) minutes of receiving notification of a problem.
- (OSC)

7) Relocation Objectives

- a. Demonstrate the ability to identify and designate non-essential personnel within a half an hour after deciding to evacuate the site.
- (TSC)
- b. Demonstrate the ability to explain the evacuation route, properly brief non-essential personnel prior to the start of site evacuation and arrange for traffic control.
- (TSC)

8) Offsite Agency Coordination

- a. Demonstrate the ability to coordinate emergency response with the States of Illinois and Iowa in accordance with established Emergency Plans and procedures.
- (TSC, EOF)

8) Offsite Agency Coordination (cont'd)

- b. Demonstrate the ability to exchange pertinent information with the States of Illinois and Iowa in accordance with established Emergency Plans and procedures.
- (TSC, EOF)

9) Public Information

- a. Demonstrate the ability to maintain a CECO representative in the JPIC at all times in accordance with CECO policies and procedures.
- (JPIC)
- b. Demonstrate the ability to respond to media requests within thirty (30) minutes in accordance with CECO policies and procedures.
- (JPIC)
- c. Demonstrate the ability to exchange event information with non-CECO JPIC representatives for media briefings in accordance with CECO policies and procedures.
- (JPIC)
- d. Demonstrate the ability to coordinate information with non-CECO JPIC representatives for media briefings in accordance with CECO policies and procedures.
- (JPIC)
- e. Demonstrate the ability to prepare accurate press releases within ninety (90) minutes of significant events while in a Site Emergency or General Emergency classification.
- (JPIC)
- f. Demonstrate the ability to present media briefings within ninety (90) minutes of significant events while in a Site Emergency or General Emergency classification.
- g. Demonstrate the ability to use visual aids to support media briefing information in accordance with CECO policies and procedures.
- (JPIC)

10) Recovery

- a. Demonstrate the ability to identify the criteria to enter a recovery classification in accordance with procedures.
- (TSC, EOF)
- b. Demonstrate the ability to generate a Recovery Plan which will return the plant to normal operations in accordance with CECO policies and procedures.
- (TSC, EOF)

QUAD CITIES NUCLEAR POWER STATION
1990 GSEP EXERCISE
SCOPE OF PARTICIPATION

DATE: December 5 and 6, 1990

TYPE: Daytime
Day 1 - 10 Mile EPZ, Plume
Day 2 - 50 Mile EPZ, Ingestion Pathway (Iowa Only)

OFFSITE AGENCY PARTICIPATION:

State of Illinois (Partial)
Whiteside County
Rock Island County
State of Iowa
Scott County
Clinton County

PURPOSE:

Test the capability of the basic elements within the Commonwealth Edison Company GSEP. The Exercise will include mobilization of CECo personnel and resources adequate to verify their capability to respond to a simulated emergency.

CECo FACILITIES ACTIVATED: (DAY 1)

Control Room
TSC
OSC
EOF
JPIC

CECo FACILITIES ACTIVATED: (DAY 2)

EOF (Response Cell)

CECo FACILITIES NOT ACTIVATED:

CEOF

The "Exercise" Nuclear Duty Person will be notified of simulated events as appropriate on a real-time basis. The "Exercise" Nuclear Duty Person and the balance of the Recovery Group will be prepositioned close to the Morrison EOF to permit use of personnel from distant locations.

Commonwealth Edison will demonstrate the capability to make contact with contractors whose assistance would be required by the simulated accident situation, but will not actually incur the expense of using contractor services to simulate emergency response except as prearranged specifically for the Exercise.

Commonwealth Edison will arrange to provide actual transportation and communication support in accordance with existing agreements to the extent specifically prearranged for the Exercise. Commonwealth Edison will provide unforeseen actual assistance only to the extent that the resources are available and do not hinder normal operation of the Company.