



Commonwealth Edison  
 1400 Opus Place  
 Downers Grove, Illinois 60515

August 14, 1990

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

**SUBJECT: Zion Station Units 1 and 2**  
**"Transmittal of Objectives and Scope of Participation for the**  
**September 10, 1990 Generating Station Emergency Plan (GSEP)**  
**Mini-Exercise".**  
**NRC Docket Nos. 50-295 and 50-304**

Dear Mr. Davis:

Enclosed are the Objectives and the Scope of Participation proposed for the Zion Nuclear Power Station 1990 GSEP Exercise to be conducted on September 10, 1990. These exercise scenario documents are submitted in accordance with the NRC and FEMA requirements. Copies of these documents have been delivered to Mr. D. Barss of your staff.

Any questions regarding the Zion Station Exercise Objectives or the Scope of Participation can be discussed with Bob Carson at (312) 294-8662.

Very truly yours,

T. K. Schuster  
 Nuclear Licensing Administrator

Enclosures

cc: NRC Document Control Desk  
 Resident Inspector-Zion  
 W. Snell-RIII

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ZION NUCLEAR POWER STATION  
1990 GSEP MINI-EXERCISE

SCOPE OF PARTICIPATION

DATE: SEPTEMBER 10, 1990

TYPE: DAYTIME

OFFSITE AGENCY PARTICIPATION: NONE

PURPOSE:

Test the capability of the basic elements within the Commonwealth Edison Company GSEP. The Exercise will include mobilization of CECO personnel to staff the TSC, OSC and Field Teams adequate to verify their capability to respond to a simulated emergency.

CECo FACILITIES ACTIVATED:

- TSC
- OSC

CECo FACILITIES NOT ACTIVATED:

- CONTROL ROOM (Response Cell)
- ROF (Response Cell)
- CEOF

OTHER PARTICIPANTS:

- ENVIRONMENTAL FIELD TEAMS

The "Exercise" Nuclear Duty Person will be notified of simulated events as appropriate on a real-time basis. The "Exercise" Nuclear Duty Person will act as a Response Cell MEO for decision/discussion purposes only.

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.

ZION NUCLEAR POWER STATION  
1990 GSEP MINI-EXERCISE  
SEPTEMBER 10, 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 Zion Nuclear Power Station. The September 10, 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.  
- (TSC)
- 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.  
- (TSC)

2) Notification and Communications

- a. Demonstrate the ability to correctly fill out a NARS form in accordance with EIPs or EOF procedures.  
- (TSC\*)
- b. Demonstrate the ability to make applicable notifications to offsite State and local organizations within fifteen (15) minutes of making an Emergency classification.  
- (TSC)
- c. Demonstrate the ability to correctly fill out an ENS Notification Worksheet in accordance with EIPs or EOF procedures.  
- (TSC)
- d. Demonstrate the ability to notify the NRC immediately after the State notifications and within one (1) hour of the Emergency classification.  
- (TSC)

NOTE: "\*" DESIGNATES A PREVIOUSLY NOTED PROBLEM OR DEFICIENCY.

2) Notification and Communications (cont'd)

- e. Demonstrate the ability to provide information updates to the States at least hourly and within thirty (30) minutes of changes in monitored conditions.  
- (TSC)
- 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\*)
- g. Demonstrate the ability to maintain an open-line of communication with the NRC on ENS upon request.  
- (TSC)
- h. Demonstrate the ability to maintain an open-line of communication with the NRC on HPN upon request.  
- (TSC)
- i. Demonstrate the ability to provide information updates to the NRC at least hourly and within thirty (30) minutes of changes in monitored conditions.  
- (TSC)

3) Emergency Facilities

- a. Demonstrate the ability to staff and activate the TSC and OSC within thirty (30) minutes of the Alert Classification in accordance with EIPs.  
- (TSC, OSC)
- b. 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\*)
- c. Demonstrate the ability to document and track all Operations and Maintenance Team activities in logs and on appropriate Status Boards.  
- (TSC, OSC)

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.  
- (TSC, OSC)
- 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.  
- (TSC, OSC)
- c. Demonstrate the ability to prioritize Operations and Maintenance activities during abnormal and emergency situations.  
- (TSC, OSC)
- d. Demonstrate the ability to requisition, acquire and transport emergency equipment and supplies necessary to mitigate or control unsafe or abnormal plant conditions.  
- (TSC)
- e. Demonstrate the ability to brief and dispatch the Environs Teams within forty-five (45) minutes of determination of the need for field samples.  
- (TSC\*, OSC\*)
- f. Demonstrate the ability to control/coordinate Environs Team's activities in accordance with ED and EG procedures.  
- (TSC)
- g. Demonstrate the ability to direct coordination of Environs Team's activities in accordance with Station EPIPs and EOF procedures.  
- (TSC)
- h. Demonstrate the ability to assemble and account for all on-site personnel within thirty (30) minutes of sounding the Assembly Alarm.  
- (TSC\*)
- i. 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.  
- (TSC, OSC\*)
- j. Demonstrate the ability to keep Field Teams informed of changing plant conditions as appropriate.  
- (TSC\*)

5) Radiological Assessment and Protective Actions

- a. Demonstrate the ability to trend plant radiological survey information for conditions presented in the scenario.  
- (TSC, OSC\*)
- b. Demonstrate the ability to collect and document all radiological surveys taken for conditions presented in the scenario.  
- (OSC\*)
- c. Demonstrate the ability to take appropriate protective actions for on-site personnel in accordance with Station EPIPs.  
- (TSC\*, OSC\*)
- d. 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)
- e. Demonstrate the ability to establish radiological controls in accordance with established Health Physics policies and plant procedures.  
- (OSC\*)
- f. Demonstrate the ability to monitor, track and document radiation exposure to inplant Operations and Maintenance Teams in accordance with established policies and plant procedures.  
- (OSC)
- g. Demonstrate the ability to establish radiological monitoring and controls of Assembly areas in accordance with established policies and plant procedures.  
- (OSC)
- h. Using information provided by the Exercise scenario, demonstrate the ability to calculate Offsite Dose Projections in accordance with appropriate procedures, programs and guidances.  
- (TSC\*)
- i. 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.  
- (TSC)

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

- j. Demonstrate the ability to perform decontamination of radioactively contaminated individuals in accordance with established policies and procedures.  
- (OSC\*)
- k. Demonstrate the ability to collect field samples in accordance with Environmental Sampling procedures.  
- (Field Teams)
- l. Demonstrate the ability to perform field sample analysis in accordance with Environmental Sampling procedures.  
- (Field Teams)
- m. Demonstrate effective contamination control techniques for the handling and storage of environmental samples.  
- (Field Teams\*)
- n. Demonstrate the ability to document, trend and assess field sample results in accordance with Environmental Sampling procedures.  
- (TSC\*)

6) 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\*)