



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

APR 09 1992

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

Gentlemen:

In the Matter of	)	Docket Nos. 50-327
Tennessee Valley Authority	)	50-328

SEQUOYAH NUCLEAR PLANT (SQN) - GOALS AND OBJECTIVES FOR THE JUNE 1992  
RADIOLOGICAL EMERGENCY PLAN (REP) EXERCISE

Enclosed are TVA's goals and objectives for the June 1992 SQN REP exercise. These are supplied in accordance with an October 11, 1984, NRC letter asking for utility submittal of REP exercise objectives 75 days before the exercise date. The SQN exercise is currently scheduled for the week of June 22, 1992.

If you have any questions, please telephone S. W. Spencer at 615/751-4778.

Sincerely,

Mark J. Burzynski  
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Enclosure  
cc: See page 2

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Enclosure

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## SEQUOYAH NUCLEAR PLANT (SQN) EMERGENCY PLAN EXERCISE

### GOALS AND OBJECTIVES

The 1992 SQN Radiological Emergency Plan Exercise will be a full scale ingestion pathway exercise requiring full participation by the TVA and State and local emergency response agencies. The Joint Information Center (JIC) will be manned to support CECC operations.

#### Exercise Goals

TVA's goals for the 1992 SQN exercise are as follows:

1. Allow plant and offsite personnel to demonstrate and test the capabilities of the emergency response organization to protect the health and safety of plant personnel and the general public in accordance with the Nuclear Power - Radiological Emergency Plan (NP-REP), SQN Emergency Plan Implementing Procedures (EPIPs), and CECC EPIPs.
2. Identify significant weaknesses, strengths and areas which may be improved in emergency response capabilities, organization or emergency plans.
3. Provide an interactive exercise to ensure proficiency is maintained in plant and offsite emergency response capabilities.

#### Exercise Objectives

##### A. Control Room/Simulator Objectives

1. Demonstrate the ability of the Shift Operations Supervisor to recognize conditions, classify emergencies, and make required notifications in a timely manner.
2. Demonstrate the Control Room staff's ability to assume the initial responsibilities of the TSC, OSC, and CECC prior to their activation.
3. Demonstrate the ability of the SOS to manage Control Room activities in a manner to prevent interference with the classification, analysis, or mitigation of an accident.
4. Demonstrate the ability of the Control Room staff to organize, dispatch and track response teams as needed until the OSC is functional.
5. Demonstrate the ability to perform a precise and clear transfer of responsibilities from the Control Room staff to the Technical Support Center (TSC) staff.
6. Demonstrate the ability to recognize problems that cannot be quickly resolved by the Control Room staff and their deferral to the TSC for resolution.

7. Demonstrate the ability of the Shift Operations Supervisor to periodically inform the Control Room staff of the status of the emergency situation and of actions currently being planned by the TSC.
8. Demonstrate the ability of the Control Room staff to keep onsite personnel apprised of the emergency status through periodic PA system announcements, prior to activation of the TSC.
9. Demonstrate the ability of the Control Room staff to use proper procedures.
10. Demonstrate the ability of the Control Room staff, through detailed logkeeping, to maintain an accurate chronological account of equipment and plant status including the corrective actions taken.
11. Demonstrate the ability of the Control Room staff, through an effective command and control process, to make a timely determination of the cause of an incident and perform mitigating actions to place the unit in a safe and stable condition.
12. Demonstrate the ability to provide an effective flow of information between the Control Room, TSC, OSC, NRC, and CECC.
13. Demonstrate the adequacy of Control Room facilities, resources, and equipment to support emergency operations.
14. Demonstrate the Control Room staff's ability to continuously evaluate available information and redefine/confirm conditions and event classification.
15. Demonstrate the adequacy of Control Room communication systems to support emergency operations.

B. Technical Support Center (TSC) Objectives

1. Demonstrate the ability to alert and mobilize TSC emergency response personnel and activate the TSC in a timely manner.
2. Demonstrate the Site Emergency Director's (SED) ability to provide effective command and control and manage TSC activities in a manner to prevent interference with the classification, analysis, or mitigation of an event.
3. Demonstrate the problem-solving capabilities of the TSC staff in support of the effort to identify the causes of an incident, mitigate the consequences, and place the unit in a safe and stable condition.

4. Demonstrate the TSC's ability to initially assume the primary responsibilities of the CECC prior to CECC activation.
5. Demonstrate the SED's proficiency in classification of conditions and direction of mitigation activities.
6. Demonstrate the Site Vice President's proficiency in directing site resources to support accident mitigation activities.
7. Demonstrate the TSC's ability to formulate, coordinate, implement, and track onsite protective actions.
8. Demonstrate the TSC's ability to perform timely assessments of onsite radiological conditions through surveys and/or installed monitoring equipment information.
9. Demonstrate the TSC's ability to maintain an accurate account of equipment status, plant status and corrective actions through detailed chronological logkeeping.
10. Demonstrate the TSC's ability to determine the appropriate sampling and monitoring required to support accident investigation and mitigation.
11. Demonstrate the TSC's ability to maintain effective communications between the Operations Support Center (OSC), Control Room, CECC, and NRC.
12. Demonstrate the TSC's ability to maintain effective communications between the various groups within the TSC.
13. Demonstrate the adequacy of TSC communication systems to support emergency operations.
14. Demonstrate the ability of the SED to perform periodic briefings for TSC/OSC staff and onsite personnel.
15. Demonstrate the ability to assemble onsite personnel within the protected area and provide an accountability report to the SED within thirty minutes of sounding the emergency siren.
16. Demonstrate Security's ability to maintain effective site and Control Room access controls.
17. Demonstrate the adequacy of TSC facilities, resources, and equipment to support emergency operations.
18. Demonstrate the ability of the TSC staff to use proper procedures.
19. Demonstrate the ability of the TSC to continuously evaluate available information and redefine/confirm the conditions and event classification.

20. Demonstrate the ability to perform a precise and clear transfer of responsibilities from the Control Room staff to the Technical Support Center (TSC) staff.

C. Operations Support Center (OSC) Objectives

1. Demonstrate the ability to alert and mobilize OSC response personnel and activate the OSC in a timely manner.
2. Demonstrate the ability of the OSC staff, through an effective command and control process, to coordinate and initiate activities in a timely manner.
3. Demonstrate the ability of the OSC staff to properly plan required tasks; then, organize, brief, and promptly dispatch response teams.
4. Demonstrate the ability of the OSC response teams to quickly and effectively enter the plant, make necessary repairs, and adequately de-brief upon their return.
5. Demonstrate the adequacy of communications between OSC response teams and the OSC's ability to track each team.
6. Demonstrate the effective transfer of information between the OSC, TSC, RADCON laboratory, and Chemistry laboratory including briefings to keep OSC personnel apprised of the emergency status.
7. Demonstrate the OSC's ability to maintain OSC status board information accurate and up to date (current).
8. Demonstrate the adequacy of OSC resources, facilities, and equipment to support emergency operations.
9. Demonstrate the OSC's ability to maintain an accurate account of equipment, plant, and response team status, including corrective actions through detailed chronological logkeeping.
10. Demonstrate the adequacy of RADCON activities and personnel to effectively support accident mitigation efforts while ensuring adequate worker protection.
11. Demonstrate the ability of the OSC staff to use proper procedures.
12. Demonstrate the ability of the RADCON staff to perform effective inplant and site boundary surveys during radiological emergencies while using proper procedures and following good RADCON and ALARA practices.
13. Demonstrate the OSC's ability to track changing radiological conditions through survey results and/or in-plant monitors; and incorporate the information into personnel protective actions.



14. Demonstrate the OSC's ability to control internal and external exposures, and personnel contamination of onsite emergency workers including exposure tracking.
15. Demonstrate the timely and efficient activation of the plant environmental monitoring van including establishment of adequate communications.
16. Demonstrate the ability to conduct habitability surveys for the TSC, OSC, and Control Room.
17. Demonstrate the OSC's ability to maintain effective communications between the various groups within the OEC.
18. Demonstrate the adequacy of OSC communication systems to support emergency operations.

D. Central Emergency Control Center (CECC) Objectives

1. Demonstrate the Operations Duty Specialist's ability to make initial notifications to State agencies in a timely manner.
2. Demonstrate the ability to alert and mobilize CECC emergency response personnel and activate the CECC in a timely manner.
3. Demonstrate the CECC Director's ability to maintain effective command and control in the CECC.
4. Demonstrate the CECC's ability to effectively call upon and obtain TVA corporate, vendor, or other outside support resources as appropriate or needed. (technical, logistics, financial, federal, industrial, etc.)
5. Demonstrate the CECC's ability to establish and maintain effective communications between the various emergency centers (CECC, Control Room, TSC, JIC, RMCC, State/Local EOC).
6. Demonstrate the CECC's ability to establish and maintain effective communications between the various groups within the CECC.
7. Demonstrate the CECC's ability to effectively dispatch and control Radiological/Environmental Monitoring Teams, and coordinate with the State when applicable.
8. Demonstrate the CECC's ability to obtain, analyze, and utilize meteorological, onsite and offsite radiological conditions, and source term information to develop dose assessments in a timely manner.
9. Demonstrate the CECC's ability to inform, update, coordinate offsite activities with, and provide protective action recommendations to the State in a timely manner.

10. Demonstrate the CECC's ability to analyze current plant conditions, identify projected trends and determine the potential consequences.
11. Demonstrate the adequacy of CECC communications systems to support emergency operations.
12. Demonstrate the CECC's ability to maintain CECC status board information accurate and up to date.
13. Demonstrate the adequacy of CECC facilities, resources, and equipment to support emergency operations.
14. Demonstrate the ability to establish and maintain adequate security access control for the CECC.
15. Demonstrate the CECC's ability to maintain an effective interface with the NRC, including NRC responders.
16. Demonstrate the proficiency of CECC personnel with emergency procedures, equipment, and methods.
17. Demonstrate the CECC's ability to maintain an accurate account of plant status, ongoing activities, external TVA correspondence, corrective actions taken, and protective action recommendations through detailed chronological logkeeping.
18. Demonstrate the ability of Environmental Monitoring Teams to efficiently and effectively utilize their procedures to perform dose rate surveys, collect and analyze radiological samples, and conduct other prescribed radiological activities.
19. Demonstrate the Environmental Monitoring Team's abilities to adhere to appropriate contamination control procedures in field conditions.
20. Demonstrate the CECC's ability to adequately monitor and control the exposure levels of offsite TVA personnel.
21. Demonstrate the ability to effectively transfer radiological survey information from the field and keep field teams informed of emergency conditions.
22. Demonstrate the adequacy of the Environmental Monitoring Vans to support emergency operations. (monitoring equipment, supplies, communications equipment, etc.)
23. Demonstrate the CECC's ability to continuously evaluate available information and redefine/confirm the conditions and event classification.
24. Demonstrate the ability to perform a precise and clear transfer of responsibilities from the Technical Support Center (TSC) staff to the Central Emergency Control Center (CECC) staff.



E. Joint Information Center/ Public Information Objectives

1. Demonstrate the ability of the CECC Communications staff to coordinate information with non-TVA agencies.
2. Demonstrate the ability of the CECC Communications staff to develop timely and accurate news releases.
3. Demonstrate the ability of the CECC Information Manager to exercise effective command and control of the overall communications response.
4. Demonstrate the ability of the JIC to coordinate public news briefings with State and Federal agencies and provide timely information to the public during periodic JIC briefings.
5. Demonstrate the ability of media relations personnel in the JIC to answer telephone calls from the media professionally and accurately.
6. Demonstrate the ability of TVA's public information staff in the JIC to provide timely and accurate information to anyone calling the public information telephone numbers.
7. Demonstrate the ability to provide reasonable media access with minimal impact on emergency response activities.
8. Demonstrate the ability to provide information to the public that is accurate, presented at a meaningful technical level, and to take corrective actions for inaccuracies.
9. Demonstrate the adequacy of the media communications system.

F. The following drills will be conducted in the course of this exercise:

1. Accountability Drill
2. Plant Radiological Monitoring Drill (Environs Monitoring)
3. CECC/State Communications Drill
4. TSC/CECC Communications Drill
5. CECC Radiological Dose Assessment Drill
6. Plant RADCON Drill