



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

August 23, 2001

U.S. Nuclear Regulatory Commission
ATTN: Chief, Emergency Preparedness Section
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Gentlemen:

In the Matter of)
Tennessee Valley Authority)

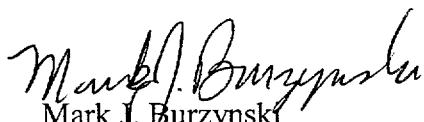
Docket Nos. 50-390
50-391

**WATTS BAR NUCLEAR PLANT (WBN) - UNITS 1 & 2 - GOALS AND OBJECTIVES
FOR THE NOVEMBER 2001 RADIOLOGICAL EMERGENCY PLAN (REP) EXERCISE**

Enclosed are TVA's goals and objectives for the November 2001 WBN REP exercise. This scenario is being submitted in accordance with a July 22, 1994, NRC letter which specified that the scenario should be submitted 45 days prior to the exercise. The WBN exercise is currently scheduled for the week of November 5, 2001.

If you have any questions, please telephone Susan Ferrell at (423) 751-7737.

Sincerely,


Mark J. Burzynski
Manager
Nuclear Licensing

Enclosure
cc: See page 2

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U.S. Nuclear Regulatory Commission

Page 2

August 23, 2001

cc (Enclosure):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT
UNITS 1 AND 2

GOALS AND OBJECTIVES FOR THE NOVEMBER 2001
RADIOLOGICAL EMERGENCY PLAN EXERCISE

WATTS BAR NUCLEAR PLANT (WBN) 2001 NRC/FEMA GRADED EXERCISE

The Radiological Emergency Plan Exercise will be a full scale exercise consisting of the following participation by TVA and State emergency organizations:

- Central Emergency Control Center will fully participate and be evaluated.
- Technical Support Center will fully participate and be evaluated.
- Operations Support Center will fully participate and be evaluated.
- Joint Information Center will fully participate and be evaluated.
- State Emergency Operations Center will fully participate and be evaluated.
- Risk Counties Emergency Operations Centers will fully participate and be evaluated.
- State Field Coordination Center will fully participate and be evaluated.
- State Radiological Monitoring Control Center will fully participate and be evaluated.
- State Field Teams will fully participate and be evaluated.

Exercise Statement:

This exercise will be utilized to formally address elements contained within NEI 99-02, "Regulatory Assessment Performance Indicator Guideline", for performance indicators regarding the Emergency Preparedness Cornerstone sections pertaining to Drill/Exercise Performance (DEP) and Emergency Response Organization Drill Participation. This exercise will include the proficiency-enhancing opportunities that will be formally assessed and included in the WBN EP Performance Indicator data.

EXERCISE GOALS

TVA's goals for the exercise are as follows:

1. **Successfully demonstrate the capabilities of the Emergency Response Organization (ERO), to protect the health and safety of TVA Personnel and the public in accordance with the Nuclear Power - Radiological Emergency Plan, and the WBN and CECC Emergency Plan Implementing Procedures.**
2. **Successfully demonstrate the capabilities of the participants, controllers and evaluators to evaluate/critique the performance and capabilities of the ERO to protect the health and safety of TVA Personnel and the public in accordance with the Nuclear Power - Radiological Emergency Plan, and the WBN and CECC Emergency Plan Implementing Procedures.**
3. **Successfully provide and conduct a scenario/exercise sequence that presents the ERO with opportunities for classification, notification and the development of Protective Action Recommendations (PARs).**
4. **Successfully provide and conduct a scenario/exercise sequence that allows demonstration of the State Responders capabilities.**

EXERCISE OBJECTIVES

A. Control Room/Simulator

1. Demonstrate the ability of the Shift Manager to recognize conditions, and make timely and accurate Emergency Classifications.
2. Demonstrate the ability of the Shift Manager to maintain effective command and control of control room activities, and periodically inform the control room staff of the status of the emergency situation.
3. Demonstrate the ability of the control room staff to make timely event assessments, perform mitigating actions, and communicate information to applicable emergency centers.
4. Demonstrate the ability of the Shift Manager/Control Room Staff to effectively conduct a turnover of events and transfer of responsibilities to the augmented Site Emergency Director(SED)/Technical Support Center Staff.
6. Demonstrate the ability of the control room staff to implement applicable Emergency Preparedness procedures, and maintain a chronological account of events.
7. Demonstrate the ability of the control room staff to establish and maintain effective communications between applicable emergency centers.

B. Technical Support Center (TSC)

1. Demonstrate the ability of the SED to recognize conditions, and make timely and accurate Emergency Classifications.
3. Demonstrate the ability of the TSC Staff to effectively activate the emergency center and assume applicable responsibilities from the control room staff.
4. Demonstrate the SED's ability to maintain command and control, and periodically inform applicable emergency centers regarding the status of the emergency situation.
5. Demonstrate the ability of the TSC staff to implement applicable Emergency Preparedness procedures, and maintain a chronological account of events.
6. Demonstrate the ability of the TSC staff to determine appropriate sampling and monitoring provisions required to support accident mitigation, perform assessments of onsite radiological conditions, and incorporate site personnel protective actions as applicable.
7. Demonstrate the ability of the TSC staff to establish and maintain effective communications between applicable emergency centers.
8. Demonstrate the ability of the TSC staff to conduct and manage the site accountability/evacuation process and personnel access control.

C. Operations Support Center (OSC)

1. Demonstrate the Operations Support Center Director's ability to maintain effective command and control, and periodically brief center personnel regarding the status of the emergency situation.
2. Demonstrate the ability of the OSC staff to implement OSC Team management attributes regarding items such as; task planning; task briefings; prompt dispatch; tracking; communications and de-briefing of OSC response teams.
3. Demonstrate the ability of the OSC response teams to effectively complete assignments and communicate with applicable OSC representatives.
4. Demonstrate the ability of the OSC staff to implement applicable Emergency Preparedness procedures, and maintain a chronological account of events.
5. Demonstrate the ability of the OSC staff to establish and maintain effective communications between applicable emergency centers.
6. Demonstrate the ability of RADCON personnel in the proper use of procedures, implementation of ALARA practices, effective support of accident mitigation efforts, ensuring adequate worker protection through personnel protective actions, and as applicable performing in-plant and site boundary surveys.

D. Central Emergency Control Center (CECC)

1. Demonstrate the ability of the Operations Duty Specialist to make initial timely and accurate classification notifications to State agencies.
2. Demonstrate the ability of the CECC to make timely and accurate classification notifications to State agencies.
3. Demonstrate the ability to perform an effective transfer of responsibilities from the TSC staff to the CECC staff.
4. Demonstrate the ability of the CECC Director to maintain effective command and control within the CECC and establish and maintain effective communication between various groups within the CECC.
5. Demonstrate the ability of the CECC to effectively coordinate offsite activities with the STATE.
6. Demonstrate the ability of the CECC to develop accurate and timely Protective Action Recommendations (PAR) or expanded PAR(if applicable).
7. Demonstrate the ability of the CECC to provide accurate and timely PAR or expanded PAR notifications to State agencies(if applicable).
8. Demonstrate the ability of the CECC to effectively communicate radiological survey information from the field, keep field teams informed of emergency conditions, and adequately monitor / control exposure levels of offsite TVA personnel as necessary.
9. Demonstrate the ability of the CECC staff to maintain chronological logs of plant status, and external TVA contacts.
10. Demonstrate the ability of the CECC staff to effectively call upon and obtain TVA corporate, vendor, or other outside support resources as appropriate or needed. (technical, logistics, financial, federal, industrial, etc.)
11. Demonstrate the ability of the CECC staff to establish and maintain effective communication between the various emergency centers.

12. Demonstrate the ability of the CECC staff to analyze current plant conditions, identify projected trends, determine the potential consequences, and maintain CECC status board information accurate.
13. Demonstrate the ability to establish and maintain adequate security access control for the CECC.
14. Demonstrate proficiency of the CECC staff with emergency procedures and equipment.

E. Exercise Specific

1. Demonstrate ability of the exercise controllers to perform their function without prompting, or otherwise interfering with the performance of exercise players.
2. Performance of the exercise players demonstrated that the scenario confidentiality had not been compromised.
3. The scenario should demonstrate technical accuracy, anticipation of significant player actions, and be sufficiently difficult to exercise capabilities of the emergency plan.
4. Demonstrate ability to conduct post exercise critiques.

F. Environmental Monitoring

1. Demonstrate the ability of the environmental monitoring teams to effectively utilize procedures to perform dose rate surveys and to collect and analyze radiological samples.
2. Demonstrate the environmental monitoring team's abilities to follow contamination control procedures in field conditions.
3. Demonstrate the adequacy of the environmental monitoring vans to support emergency operations. (monitoring equipment, supplies, communication equipment, etc.)
4. Demonstrate the ability of the site to timely and effectively activate and establish communication with environmental monitoring vans.
5. Demonstrate ability of the environmental monitoring team personnel to monitor their accumulated dose, report their accumulated doses to the Environs Assessor/Field Coordinator, and receive proper authorization for emergency exposures if required.

G. Public Information / Joint Information Center

1. Demonstrate the ability of the CECC/Communications staff to coordinate information with non - TVA agencies prior to the JIC being staffed.
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 number.
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 take corrective actions for inaccuracies.
9. Demonstrate the adequacy of the CECC communication staff facilities, resources, equipment, and communications system to support emergency operations.

H. Fire Emergency Response Team

1. Demonstrate that an incident commander is promptly dispatched to the scene of the emergency where he/she demonstrates ability to establish a command post, establish communication with the main control room, and effectively interact with the fire brigade team leader.
2. Demonstrate the ability of the fire brigade team to respond to the scene, establish appropriate response sectors/staging areas, and assess the physical situation in a timely manner.
3. The fire brigade team demonstrates adequate fire fighting skills and appropriate use of fire fighting equipment.
4. The fire brigade leader demonstrates ability to conduct briefings, control the fire scene, and displays appropriate fire fighting tactics.
5. Radcon personnel demonstrates their ability to monitor fire brigade team exposures and provide sufficient radiological information to the incident commander and / or fire brigade team leader.
6. The incident commander and fire brigade team leader demonstrates ability to communicate effectively.
7. Security personnel demonstrate their ability to provide sufficient and effective control at the scene of the fire.

I. NRC Follow-up Items

- From the 1999 NRC/FEMA Graded exercise there were none.

J. The following drills will be conducted during the exercise:

1. CECC/State Communication Drill
2. TSC/CECC Communication Drill
3. Plant Radcon Drill (In-Plant Radiation Monitoring)
4. Plant Radiological Monitoring Drill (Environs Monitoring)
5. Radiological Dose Assessment Drill (CECC)
6. Plant Fire Drill
7. Assembly and Accountability Drill