



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2881

September 2, 1999

U.S. Nuclear Regulatory Commission
ATTN: Chief, Emergency Preparedness Section
Region II
Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, Georgia 30303-3415

Gentlemen:

In the Matter of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

WATTS BAR NUCLEAR PLANT (WBN) - UNITS 1 AND 2 - GOALS AND
OBJECTIVES FOR THE NOVEMBER 1999 RADIOLOGICAL EMERGENCY PLAN
(REP) EXERCISE

Enclosed are TVA's goals and objectives for the November 1999 WBN
REP exercise. These goals and objectives are being submitted in
accordance with a July 22, 1994 NRC letter which specified the
objectives be submitted 75 days prior to the exercise. The WBN
exercise is currently scheduled for the week of November 15,
1999.

If you have any questions, please telephone Everett Whitaker at
(423) 751-6369.

Sincerely,

Mark J. Burzynski
Mark J. Burzynski
Manager
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Enclosure
cc: See page 2

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Chief, Emergency Preparedness Section
Page 2
September 2, 1999

cc (Enclosure):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT (WBN)
UNITS 1 AND 2

GOALS AND OBJECTIVES FOR THE NOVEMBER 1999
RADIOLOGICAL EMERGENCY PLAN EXERCISE

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Watts Bar 1999 Biennial Exercise Objectives

The Radiological Emergency Plan Ingestion Pathway Exercise will consist of the 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.
- Control Room (Simulator) 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.

GOALS

TVA's goals for the drill 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), site Emergency Plan Implementing Procedures (EPIPs), and the Central Emergency Control Center (CECC) EPIPs.
2. Provide a realistic interactive drill to ensure proficiency of onsite emergency response capabilities.
3. Identify emergency response capabilities that are in need of improvement or revision.

OBJECTIVES

A. Control Room/Simulator

1. Demonstrate the ability of the Shift Manager to recognize conditions, classify emergencies, make required notifications in a timely manner, and assume the initial responsibilities of the Site Emergency Director (SED).
2. Demonstrate the ability of the Shift Manager to maintain effective command and control of control room activities and perform classification analysis.
3. Demonstrate the ability of the control room staff to make timely analysis of the incident.
4. Demonstrate the ability of the control room staff to use appropriate radiological emergency procedures.
5. Demonstrate the ability of the control room staff to continuously evaluate information, redefine/confirm conditions and event classifications.
6. Demonstrate effective turnover of information and responsibilities to the TSC.

Watts Bar 1999 Biennial Exercise Objectives

B. Technical Support Center (TSC)

1. Demonstrate the SED's ability to provide effective direction, command and control, to manage activities in a manner that promotes event classification, analysis, or mitigation of an event and to perform periodic briefings for TSC/Operations Support Center (OSC) staff and personnel.
2. Demonstrate the ability of the TSC staff to use appropriate procedures, solve problems related to incident identification, and maintain accurate logs.
3. Demonstrate the ability of the TSC to determine the appropriate sampling and monitoring required to support accident mitigation, perform timely assessments of onsite radiological conditions, and formulate, coordinate, implement, and track onsite protective actions.
4. Demonstrate the ability of the TSC to maintain effective communication between the OSC, control room, CECC, and various groups within the TSC.
5. Demonstrate the ability of the TSC to continuously evaluate available information, redefine/confirm plant conditions and event classifications, and, if required, assemble onsite personnel within the protected area.
6. Demonstrate the ability of the TSC to effectively assume command and communication with environmental monitoring vans from the Radcon lab. (If not already assumed by the CECC or RMCC).

C. Operations Support Center (OSC)

1. Demonstrate the ability of the OSC Manager, through effective command and control, to coordinate and initiate activities in a timely manner, use appropriate procedures, and maintain effective communications between various groups within the OSC.
2. Demonstrate the ability of the OSC staff to properly plan required tasks and promptly dispatch, track, and maintain communications with the response teams.
3. Demonstrate the ability of the OSC staff to prepare teams, respond to the damaged equipment, initiate necessary repairs or inspections, and provide an adequate debrief upon returning to the OSC.
4. Demonstrate the ability of the OSC staff to maintain status boards, priority boards, team tracking boards, and logs. Also, demonstrate effective transfer of information between the OSC, TSC, Radcon lab, and Chemistry lab.
5. Demonstrate the ability of Radcon personnel to use appropriate procedures and follow Radcon and ALARA practices to ensure adequate worker protection and perform effective in-plant surveys.
6. Demonstrate the ability of the OSC to track changing radiological conditions through survey results and/or in-plant monitors, control internal and external exposures and personnel contamination of onsite emergency workers, and incorporate the information into personnel protective actions and exposure tracking.

Watts Bar 1999 Biennial Exercise Objectives

D. Central Emergency Control Center (CECC)

1. Demonstrate the ability of the Operations Duty Specialist to make initial notifications to State agencies in a timely manner.
2. Demonstrate the ability to transfer offsite responsibilities from the TSC to the CECC.
3. Demonstrate the ability of the CECC Director to maintain effective command and control and promote internal communications.
4. Demonstrate the ability of the CECC to provide emergency classifications, protective action recommendations, plant conditions, and dose assessment information to the State in a timely manner.
5. Demonstrate the ability to effectively obtain radiological survey information from the field, keep the field teams informed of emergency conditions, and provide them with exposure control.
6. Demonstrate the ability of the CECC staff to use appropriate procedures and equipment, and to periodically evaluate available information and redefine/confirm plant conditions and event classifications.
7. Demonstrate the ability of the CECC staff to obtain field data needed to develop dose assessments in a timely manner.
8. Demonstrate the ability of the CECC staff to analyze current plant conditions, identify projected trends, and determine the potential consequences.

E. Environmental Monitoring

1. Demonstrate the ability of the Environmental Monitoring Teams to effectively utilize their procedures to perform dose rate surveys, collect and analyze radiological samples, and conduct other prescribed radiological activities.
2. Demonstrate the Environmental Monitoring Team's abilities to adhere to appropriate 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 ability to timely and effectively activate and establish communication with environmental monitoring vans and to timely and effectively transfer control of the environmental monitoring vans to the CECC or RMCC.
5. Demonstrate ability to effectively dispatch and control Radiological/Environmental Monitoring Teams, coordinate with the State when applicable, and obtain, analyze, and utilize meteorological, onsite and offsite radiological conditions, and source term information to develop dose assessments in a timely manner.

Watts Bar 1999 Biennial Exercise Objectives

F. Public Information/Joint Information Center (JIC)

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

G. Drill Specific

1. Demonstrate the ability to conduct post-drill critiques.
2. Demonstrate the adequacy of control room and emergency center's facilities, resources, equipment, and communication systems to support emergency operations.
3. Demonstrate the ability to alert and mobilize emergency response center personnel and activation of the emergency centers within approximately one hour.
4. Demonstrate the ability to conduct habitability surveys for the TSC, OSC, Control Room, and all assembly areas.
5. Demonstrate the ability to maintain effective communication between the Technical Support Center, Operations Support Center, Central Emergency Control Center, Control Room/Simulator, and NRC.

Watts Bar 1999 Biennial Exercise Objectives

H. MEDICAL EMERGENCY RESPONSE TEAM

1. An Incident Commander is promptly dispatched to the scene of the emergency where he/she demonstrates ability to establish a command post, set up communication with the main control room, and effectively interact with the Medical Emergency Response Team (MERT) leader.
2. The MERT demonstrates the ability to arrived on the emergency scene in a timely manner, assess medical injuries, identify hazards, and provide medical care.
3. The priority of medical and radiological concerns was properly established, and contamination control measures were implemented for personnel and equipment during the treatment, transport, and following transport of contaminated or potentially contaminated injured personnel.
4. Security personnel demonstrate their ability to provide sufficient and effective control at the scene of the emergency.
5. Demonstrate ability to determine means of transportation for injured personnel and provide follow-up notification to receiving hospital upon site departure.
6. The agreement hospital demonstrates their ability to receive the injured person, assess radiological and medical conditions of the victim, and implement proper contamination control measures.
7. Radcon personnel demonstrates their ability to monitor MERT exposures and provided sufficient radiological information to the Incident Commander and/or MERT leader.
8. The Incident Commander and MERT demonstrates ability to communicate and interact effectively.

I. NRC Follow-up Items

NONE

Watts Bar 1999 Biennial Exercise Objectives

J. Six-Year Plan Credit

The following will be credited in the Six-Year Plan as part of 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. Medical Emergency Response Team (MERT)
7. Joint Information Center (JIC)