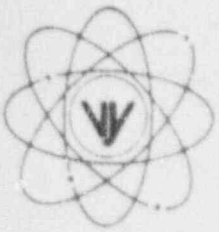


VERMONT YANKEE NUCLEAR POWER CORPORATION



Ferry Road, Brattleboro, VT 05301-7002

REPLY TO:
ENGINEERING OFFICE
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BOLTON, MA 01740
(508) 779-6711

August 7, 1991
BVY 91-73

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

References: a. License No. DPR-28 (Docket No. 50-271)

Subject: 1991 Vermont Yankee Emergency Exercise Objectives

Dear Sir:

Enclosed please find Vermont Yankee's objectives for the Annual Emergency Preparedness Exercise scheduled for Wednesday, November 6, 1991. This enclosure provides the scope of the exercise and the objectives to be fulfilled, including specific objectives to demonstrate, where appropriate, the effectiveness of corrective actions taken in regard to areas previously identified during NRC inspections, prior emergency exercises and drills, and our internal evaluation process.

Your questions and comments concerning the Vermont Yankee Annual Emergency Preparedness Exercise should be addressed to Mr. Edward C. Porter, Vermont Yankee Nuclear Power Corporation, P.O. Box 169, Ferry Road, Brattleboro, Vermont 05301. Mr. Porter can be reached at (802) 257-5271, Extension 363.

Please do not docket this correspondence until the exercise is completed.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

Leonard A. Tremblay, Jr.
Senior Licensing Engineer

cc:

USNRC Region I Administrator
USNRC Resident Inspector - VYNPS
USNRC Project Manager - VYNPS

Mr. William J. Lazarus, Chief
Emergency Preparedness Section
Region I

DO NOT DOCKET UNTIL
EXERCISE COMPLETION

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VERMONT YANKEE NUCLEAR POWER STATION
EMERGENCY RESPONSE PREPAREDNESS EXERCISE
1991

EXERCISE OBJECTIVES

VERMONT YANKEE NUCLEAR POWER STATION
EMERGENCY RESPONSE PREPAREDNESS EXERCISE
1991

1991 VERMONT YANKEE EXERCISE OBJECTIVES

In order to demonstrate the emergency response preparedness of the Vermont Yankee Nuclear Power Station, an emergency response preparedness exercise will be conducted on Wednesday, November 6, 1991. The exercise being conducted is a full-scale exercise with plan participation from Vermont Yankee, State of Vermont, State of New Hampshire, Commonwealth of Massachusetts, and the local towns within the plume exposure pathway.

The exercise objectives for the exercise are developed to evaluate and test major elements of the Vermont Yankee emergency preparedness program. The selected exercise objectives are also based on previous improvement items identified by the NRC and corrective actions taken in regard to follow-up action items identified by Vermont Yankee. The exercise objectives will be used to ascertain the required input to the exercise scenario sequence of events and to establish the evaluation criteria to be used by the exercise controllers and observers. The specific exercise objectives to be demonstrated are as follows:

A. Emergency Classification and Accident Assessment

1. Demonstrate the ability of Control Room personnel to recognize emergency initiating events and properly classify the condition in accordance with pre-established emergency action levels.
2. Demonstrate the ability of Control Room personnel and TSC staff to coordinate the assessment of plant conditions and corrective actions to mitigate accident conditions.
3. Demonstrate that information concerning plant conditions can be transmitted between the Control Room and the TSC in a timely manner.

4. Demonstrate the ability of the TSC staff to initiate and coordinate corrective actions in an efficient and timely manner.
5. Demonstrate the ability of appropriate TSC staff to participate with the Control Room and the EOF/RC in emergency classification and EAL discussions.
6. Demonstrate the ability to effectively use the Emergency Response Facility Information System (ERFIS) in the assessment and trending of plant conditions.
7. Demonstrate the ability to assess data from appropriate chemistry samples in support of accident assessment activities and plant conditions.

B. Notification and Communication

1. Demonstrate that messages are transmitted in an accurate and timely manner and that information and messages are properly logged and documented.*
2. Demonstrate the capability to notify federal and state authorities of emergency classification and significant changes in plant status in accordance with established procedures.*
3. Demonstrate that appropriate status boards are utilized to display pertinent accident information at the various emergency response facilities.*
4. Demonstrate that adequate emergency communication systems are in place to facilitate transmittal of data between the emergency response facilities and federal and state authorities.

*Indicates NRC identified improvement items from the 1990 exercise.

5. Demonstrate that off-site monitoring teams can use appropriate sample points (landmarks) for determining and communicating their location in the field.
6. Demonstrate the ability to provide adequate briefings to off-site monitoring teams as conditions and information change.*

C. Direction and Control

1. Demonstrate the proper transfer of accident management responsibilities from the SS/PED to the Duty Call Officer, and subsequently to the TSC Coordinator and Recovery Manager as appropriate.*
2. Demonstrate the capability of key emergency response facility management personnel to direct and coordinate their respective emergency response activities in an efficient and timely manner.*
3. Demonstrate appropriate coordination of activities with federal and state government agencies.

D. Emergency Response Facilities

1. Demonstrate the ability of station and corporate personnel to activate and staff the emergency response facilities in a timely manner.
2. Demonstrate and test the adequacy and effectiveness of emergency response facilities, operations, and equipment.

*Indicates NRC identified improvement items from the 1990 exercise.

E. Plant Augmentation and Staffing

1. Demonstrate the adequacy of plant emergency notification methods and procedures to augment plant staff and resources.
2. Demonstrate the ability to utilize outside resources to provide technical assistance and logistical support.
3. Demonstrate the ability to maintain shift staffing and manpower to provide for future manpower and logistics needs.

F. Radiological Exposure Control

1. Demonstrate the ability to provide adequate radiation protection controls for on-site emergency response personnel, such as appropriate dosimetry, equipment, and protective clothing.
2. Demonstrate the ability to monitor and track radiation exposure of on-site emergency response personnel.

G. Radiological Assessment

1. Demonstrate that radiological assessment personnel at the EOF can obtain radiological and meteorological data in a timely manner.
2. Demonstrate that adequate dose assessment procedures can be performed to determine off-site radiological consequences.
3. Demonstrate the ability to assess potential off-site radiological consequences based on plant conditions.
4. Demonstrate the ability to perform timely assessment of off-site radiological conditions to support the formulation of protective action recommendations for the plume exposure pathway.

5. Demonstrate the ability to project the plume trajectory and potentially affected downwind sectors utilizing the computer dose assessment model (METPAC).
6. Demonstrate adequate staffing, equipment readiness check, and deployment (if necessary) of off-site monitoring teams.
7. Demonstrate the use of appropriate equipment and procedures to perform off-site radiological monitoring.

H. Protective Action Decision Making

1. Demonstrate the ability to implement appropriate on-site protective measures for emergency response personnel.
2. Demonstrate the adequacy of the protective action decision making process to make appropriate recommendations concerning off-site radiological consequences.

I. Public Information

1. Demonstrate the ability to develop and disseminate timely and accurate press releases to the public and the news media.
2. Demonstrate the ability to provide briefings for and to interface with the public and news media.
3. Demonstrate the ability to communicate and coordinate news releases between the EOF and the News Media Center.
4. Demonstrate the ability to provide rumor control.
5. Demonstrate the ability to coordinate news releases with the state's public information representatives.

J. Parallel and Other Actions

1. Test and evaluate the adequacy of methods to establish and maintain access control and personnel accountability within the protected area.
2. Demonstrate the adequacy of the procedural process to transfer from the emergency classification phase to the recovery mode of operation.*
3. Demonstrate the licensee's capability for self-critique and ability to identify areas needing improvement.

NOTE: The annual Radiological monitoring drill and semi-annual Health Physics drill will be included as part of this exercise. A separate Health Physics drill will be held to demonstrate the actual sample collection and analysis of in-plant chemistry samples which includes the use of the Post-Accident Sampling System (PASS).

*Indicates NRC identified improvement items from the 1990 exercise.