



# Federal Emergency Management Agency

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J.W. McCormack Post Office &  
Courthouse Building, Room 442  
Boston, MA 02109

Hubert J. Miller, Regional Administrator  
USNRC, Region I  
475 Allendale Road  
King of Prussia, PA 19406

Dear Mr. Miller:

Enclosed is a copy of the final report for the December 4, 2000, Childcare and Host Facility Drill and the February 13, 2001, Host Facility Drill conducted in Tewksbury and Wilmington, Massachusetts, respectively. This report addresses the evaluation of the plans and preparedness of the Commonwealth of Massachusetts and the Childcare and Host Facilities. The final drill report was prepared by the Federal Emergency Management Agency, Region I staff. Copies of this report have been forwarded to the Commonwealth of Massachusetts and FEMA Headquarters.

There were no deficiencies identified during the host facility drills. An Area Requiring Corrective Action (ARCA) was identified during the Childcare Facility interviews.

Based upon the results of the drills conducted on December 4, 2000, and the February 13, 2001, offsite radiological emergency response plans and preparedness for the Commonwealth of Massachusetts, the Childcare Facilities and the Host Facilities, that are site specific to the Seabrook Nuclear Power Station, can be implemented and are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at the site.

If you should have any questions, please contact Daniel McElhinney, RAC Chair, at 617-223-9567.

Sincerely,

A handwritten signature in dark ink, appearing to read "Kenneth L. Horak", is written over the typed name.

Kenneth L. Horak  
Acting Regional Director

Enclosure



**COMMONWEALTH OF MASSACHUSETTS  
SPECIAL POPULATIONS –CHILD CARE FACILITIES  
DRILL  
IMPLEMENTATION OF PROTECTIVE ACTIONS-  
HOST FACILITIES DRILL**

***SEABROOK NUCLEAR POWER STATION***

Licensee: *North Atlantic Energy  
Services Corporation*

Exercise Date: *December 4, 2000  
February 13, 2001*

Report Date: *March 27, 2001*

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**FEDERAL EMERGENCY MANAGEMENT AGENCY  
REGION 1  
JOHN W. McCORMACK POST OFFICE AND COURTHOUSE  
BOSTON, MASSACHUSETTS 02109**

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## *I. EXECUTIVE SUMMARY*

On December 4, 2000, a Staff Assistance Visit (SAV) was conducted at the Massachusetts Emergency Management Agency (MEMA) Area I Headquarters in Tewksbury, Massachusetts. Visitations and a walkthrough were, also, conducted at the two Tewksbury Host Schools by a representative of the Federal Emergency Management Agency Region I. On February 13, 2001, a SAV was conducted at the Shriners' Auditorium Host Facility that included an interview with the Facility Manager and a walkthrough examination. The purpose of the SAVs was to assess the capability of the Special Population Child Care Facilities and the Tewksbury Host Schools to respond to a radiological emergency at the Seabrook Nuclear Power Station (NPS) and the Shriners' Auditorium Host Facility to accept evacuees during a similar emergency. Both SAVs were held in accordance with FEMA's Policies and Guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERP) and Procedures.

FEMA wishes to acknowledge the cooperation of the individuals from the Dewing Elementary School, Tewksbury Memorial High School, the facility managers of the host schools, the childcare facility points-of-contact, and the Shriners' Auditorium and staff. Cooperation and teamwork were evident among the participants during these SAVs.

All participants, of the December 4, 2000, and the February 13, 2001, SAVs, demonstrated knowledge of their emergency response plans and procedures and adequately understood how to implement them.

This report contains the final results of the interviews held and observations noted on December 4, 2000 and February 13, 2001.

## *II. INTRODUCTION*

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. FEMA's activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351 and 352. These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

FEMA Rule 44 CFR 350 establishes the policies and procedures for FEMA's initial and continued approval of State and local governments' radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on State and local government participation in joint exercises with licensees.

FEMA's responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

- Taking the lead in offsite emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
  - U.S. Department of Commerce
  - U.S. Nuclear Regulatory Commission
  - U.S. Environmental Protection Agency
  - U.S. Department of Energy
  - U.S. Department of Health and Human Services
  - U.S. Department of Transportation
  - U.S. Department of Agriculture
  - U.S. Department of the Interior and
  - U.S. Food and Drug Administration

Representatives of these agencies serve on the FEMA Region I's Regional Assistance Committee (RAC), which is chaired by FEMA.

Formal submission of the RERPs for the Seabrook Nuclear Power Station (NPS) to FEMA Region I by the State of New Hampshire and the Commonwealth of Massachusetts and their involved local jurisdictions occurred on September 1987, and May 1992, respectively.

On December 4, 2000, a SAV was conducted at the Massachusetts Emergency Management Agency (MEMA) Area I Headquarters in Tewksbury, Massachusetts, and on February 13, 2001, a SAV was conducted at the Shriners' Auditorium Host Facility.

The findings presented in this report are based upon the evaluations of the Federal evaluator, with final determinations made by the FEMA Region I RAC Chairperson, and approved by the Regional Director.

The criteria utilized in the FEMA evaluation process are contained in:

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;
- FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual," September 1991; and
- FEMA-REP-15, "Radiological Emergency Preparedness Exercise Evaluation Methodology," September 1991.

Section III of this report, entitled "Staff Assistance Visit and Results (SAV)," presents detailed information on the demonstration of applicable exercise objectives at each jurisdiction or functional entity evaluated in a jurisdiction-based, issue only format. This section also contains, if required, (1) descriptions of Deficiencies and ARCAs assessed during exercises, recommended corrective actions and (2) descriptions of unresolved ARCAs assessed during previous exercises and the status of the OROs' efforts to resolve them.

### *III. STAFF ASSISTANCE VISIT*

Contained in this section are the results and findings of the SAVs at:

1. Tewksbury Host Facilities and Childcare Centers conducted on December 4, 2000, to test the understanding of staff and the condition of the facility to respond to an incident involving the Seabrook Nuclear Power Station (NPS). The Region I Facility Questionnaire was used as a basis for the interview.
2. Further, this section contains the results and findings of the SAV of the Shriners' Auditorium Host Facility conducted on February 13, 2001, to test the capabilities of the staff and facility to respond to an incident involving the Seabrook NPS.

Each functional entity was evaluated on the basis of its demonstration of criteria delineated in the Exercise objectives contained in FEMA-REP-14, REP Manual, September, 1991.

The following is the status of functional entities evaluated.

#### **1. TEWKSBURY HOST FACILITIES**

The Principals and staff of the Dewing Elementary School and the Tewksbury Memorial High School demonstrated complete understanding of the plan and their role during an emergency involving the Seabrook Nuclear Power Station. The facility coordinators likewise were dedicated and had complete understanding of the plan and procedures and their roles.

- a. **MET: Objective 16**
- b. **DEFICIENCY: None**
- c. **AREA REQUIRING CORRECTIVE ACTIONS: None**
- d. **NOT DEMONSTRATED: None**
- e. **PRIOR ARCAs – RESOLVED: None**
- f. **PRIOR ARCAs – UNRESOLVED: None**

**1a. CHILD CARE FACILITIES**

While there was some misunderstanding, regarding who would contact them, their understanding of the plans and procedures and how to implement them was thorough. They were enthusiastic and cooperative during the interviews.

**a. MET:** None

**b. DEFICIENCY:** None

**c. AREA REQUIRING CORRECTIVE ACTIONS:** Objective 15

**57-00-15-A-48** When questioned approximately half of the respondents were unsure or did not know who would contact their facility should an incident requiring protective action occur.

**Recommendation:** Additional training is required to assure that all contacts understand the representative who will contact the facility to apprise them of an emergency at the Seabrook Nuclear Power Station and any protective actions to be taken.

**d. NOT DEMONSTRATED:** None

**e. PRIOR ARCAs – RESOLVED:** None

**f. PRIOR ARCAs – UNRESOLVED:** None

## **2. SHRINERS' AUDITORIUM HOST FACILITY**

The Facility Manager and his staff were very knowledgeable and cooperative during the interview and walkthrough of the Shriners' Auditorium Host Facility. The facility was well equipped, and the manager and the remainder of the facility staff were eager, enthusiastic, and professional in their approach to the SAV.

- a. MET: Objective 19**
- b. DEFICIENCY: None**
- c. AREA REQUIRING CORRECTIVE ACTIONS: None**
- d. NOT DEMONSTRATED: None**
- e. PRIOR ARCAs – RESOLVED: None**
- f. PRIOR ARCAs – UNRESOLVED: None**



## ***APPENDIX I***

**STAFF ASSISTANCE VISIT PARTICIPANT**

**TEWKSBURY HOST FACILITIES AND DAY CARE FACILITIES  
DECEMBER 4, 2000**

Robert J. Waters      FEMA Region I

**SHRINER'S AUDITORIUM HOST FACILITY  
FEBRUARY 13, 2001**

Robert J. Waters      FEMA Region I

## ***APPENDIX II***

**EXTENT-OF-PLAY**

**NONE**

## ***APPENDIX II***

**SCENARIO**

**NONE**