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BRANCH

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
before the
ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)	
)	
PUBLIC SERVICE COMPANY OF)	Docket Nos. 50-443-OL
NEW HAMPSHIRE, et al.)	50-444-OL
)	
(Seabrook Station, Units 1 and 2))	(Off-site Emergency
)	Planning Issues)
)	

APPLICANTS' REBUTTAL TESTIMONY NO. 18
(SCHOOL PROTECTIVE ACTIONS)

Panel Members: Anthony M. Callendrello, Manager,
Emergency Planning Licensing, New
Hampshire Yankee

Michael C. Sinclair, Emergency Planning
Specialist, Aidikoff Associates

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I. INTRODUCTION

This testimony addresses issues pertaining to Seabrook Plan for Massachusetts Communities (SPMC) procedures for implementing protective action recommendations for schools and, in particular, their use during the FEMA Graded Exercise, June 1988, as raised in Joint Intervenor (JI) Contention 45 (Bases B, E, H, I, M, N, & O); MAG EX-9 (Basis B); MAG EX-10; MAG EX-11 (Bases B(2) and B(4) and D); and TOH/NECNP EX-2.

Issues raised in these bases which have been addressed in previously filed testimony before this Board are incorporated by reference as follows: JI-45B, see Applicants' Rebuttal Testimony No. 6 (Protective Actions for Particular Populations) at page 27; JI-45E, page 29 *ibid*, JI-45H, I, pages 28, 37-42 *ibid*, JI-45M, page 42 *ibid*.

II. AVAILABILITY OF LOCAL BUSES

The SPMC provides that schools which can meet their own evacuation transportation needs from available resources may do so (SPMC, page 3.6-9), and that the Offsite Response Organization (ORO) resources will supplement those already available at the time of an emergency (IP 2.7, Section 5.3.3.A and B). However, the SPMC makes provisions to meet 100 percent of the needs of schools to support an evacuation

in the event that local transportation resources are unavailable.

In order to determine the extent to which ORO resources are required and to maximize the utilization of all available resources, at the ALERT classification school officials are contacted by the School Liaisons and asked to estimate their transportation needs. Contracted school transportation arrangements are generally handled through the School District Superintendent's office which would contact the district's regular contracted bus provider to determine the availability of resources.

School officials should be in a position to respond with some information regarding their regularly contracted buses. For example, the Triton Regional District has, as a stipulation in its contract with its bus provider, that when requested, the bus provider will respond within one hour. The Newburyport Superintendent's Office has indicated that when requested, all contracted buses and drivers respond within one hour of an emergency call. See Attachment A hereto.

Although provision of information such as the number of buses locally available is helpful to the ORO in providing transportation support, the ORO does not rely on this information nor is it crucial to the effective implementation of an evacuation. If information regarding contracted bus

availability is unavailable prior to an evacuation recommendation, the ORO will utilize the pre-determined "default" values in Appendix M reflecting 100 percent of school enrollments as the basis for dispatching ORO buses to each school.

III. ORO INTERFACE WITH SCHOOLS

The method of evaluating ORO's interface with schools during the Exercise was consistent with the FEMA Guidance Memorandum EX-3, Amendment dated 3/7/88 (page 4 provided as Attachment B hereto): The Offsite response organization will demonstrate the capability "to interface with non-participating State and local government, but [this demonstration] does not include the use of stand-ins for the anticipated State and local responses While the controllers will not function as stand-ins, they will provide appropriate opportunities for the players to demonstrate the knowledge and interface capabilities of utility offsite response organization personnel." In accordance with this guidance, the controllers did not act as if they were school personnel, but only ensured that the ORO Liaisons had adequate understanding of their liaison functions to enable them to implement their procedures.

The interaction between the schools and the ORO Liaisons was demonstrated through contact with a New Hampshire Yankee (NHY) telephone control cell where controllers received

emergency information and provided school and day care center scenario data. The content of these phone conversations was described by ORO School Liaison, John Giarrusso, during his deposition on March 14, 1989 at 38.

"I informed them of my name and position on the ORO; explained to them the situation at Seabrook and that I was calling to verify their number of students, which I had in my Appendix M, whether that was correct, that's what they had enrolled that day, students, faculty, number of buses needed to service that school.

I asked them if they know about our EBS stations. I told them what they were. I gave them my phone number, again my name, and if they has any questions they could call be back and I would keep them informed of any change in anything at Seabrook and also asked along the time of their school closing. To the best of my recollection, that's what I did."

The Controllers often asked questions and provided non-scenario information concerning school dismissal times and the progress of the evacuation. The School Liaisons relayed this information, such as dismissal of the Merrimac School District, to the Emergency Operations Center (EOC) where it was factored into the emergency response.

A review of the exercise records shows that the phone calls to the schools lasted from 3 to 5 minutes depending on information to be conveyed. The initial phone call, as described above, is made at the ALERT emergency classification when the school phones would not be busy due to parents calling about the Seabrook emergency. Subsequent

updates parallel information directly available from Emergency Broadcast System (EBS).

In order to expedite school notification, the School Liaison procedure was revised in Amendment 6. This revision which directs that the Liaison's assist each other in making phone calls (SPMC, IP 1.9, Section 5.2.4), addresses the issue raised by the Intervenors which allege that the phone calls cannot be made in a timely manner. During the Exercise the Amesbury School Liaison needed to make 38 calls, while four of the Liaisons need to make only 11 or less. The revised procedure, using the updated school listing will have six Liaisons making 112 calls which should take 60 to 90 minutes. Whether the Liaisons have time to complete their calls will depend primarily on how fast the emergency escalates and requires updated information to be provided. Again, if the School Liaisons are unable to reach a school for whatever reason, the default values for transportation resources will be used as the basis for the response.

During the Exercise the School Liaisons performed their interface function as detailed in their procedures. As discussed below, three real day care centers participated in the Exercise. Since each was in a different town, and two ORO shifts were exercised, six School Liaisons spoke to real day care operators. In post Exercise communications all three day care operators felt the notifications and

information received during the Exercise went well. See Attachment C hereto. School Liaisons continued to make calls until they completed their calls or the Controller directed an end to the calls. See Exercise Scenario, Applicants' Exhibit 61, at 3.2.9) Generally the calling period was limited to approximately one hour each time calls were required in response to the scenario.

During the Spring of 1988 all Massachusetts Emergency Planning Zone (EPZ) schools and day care centers were contacted requesting their participants in the upcoming Exercise. See Applicants Rebuttal Testimony No. 23, Scope. One school and three day care centers agreed to participate in the Seabrook Exercise. This participation was to consist of receiving phone calls from ORO players during the Exercise and interviewing with FEMA evaluators the following day. The three day care centers participated as scheduled, see Attachment C hereto, but the school, Seventh Day Adventist, was not in session because the exercise date was rescheduled from May to June 28, 1988.

The Intervenors allege that the Amesbury School Liaison called the Seventh Day Adventist school at 11:17 a.m. and, when the phone was unanswered, the school was not recalled until 1:50 p.m. The Liaisons's log, however, details that he called the school at 11:17, continued with other calls and then unsuccessfully attempted to recontact them at 11:40.

See Attachment D hereto. He notified the School Coordinator that he was unable to make contact with the school at this time. After the GENERAL EMERGENCY was declared, the Liaison attempted to recontact the Seventh Day Adventist at 1:50 p.m. and again there was no answer. The Liaison continued to make calls to inform the schools about the GENERAL EMERGENCY until 2:24 p.m. when he restarted his calls to inform the schools of the Protective Action Recommendation (PAR). At 3:16 p.m. the Controller told him that all his calls were complete. This inability to contact a school will result in the dispatch of buses based upon default values in Appendix M and would not affect the availability of transportation resources for the school.

The Intervenors allege (MAG EX-10D) that the communications with the Horace Mann School were illogical and confused. The following is a list of relevant entries in the log of the Amesbury School Liaison (Attachment D hereto):

11:38	Called Horace Mann School - transportation OK - Close 2:45, they have 102 students boarding.
1:25	Called Horace Mann School - informed of SAE.
2:07	Horace Mann School - Informed of G.E.
2:24	School children are to be held at school, hold their buses if possible and supply route guides.
2:54	Horace Mann School - Hold students and buses, need route guides. Students were getting on buses. I told them to unload and get into schools due to a release going out to sea.

- 3:17 Route Guides arrive at 3:55, we will be using our buses. I must call schools and tell them to release buses.
- 3:33 Horace Mann School, told buses will arrive at 3:55, release their buses.

The above log entries detail a conscientious effort to keep the Horace Mann School informed of emergency events.

The Intervenors allege that the Amesbury School Liaison should have made congregate care arrangements for the Horace Mann "boarders". The identification of these students as boarders was a mistake by the Controllers, these students attend an afternoon school session. In any case, the provision for extended relocation of any students would take place at the School Host Facility where any students not picked up by parents or guardians would be transferred to Congregate Care. This is not a responsibility of the School Liaisons.

The 2:54 p.m. entry is a summary of an extended conversation. During this conversation the School Liaison informed the school official that the buses needed to wait for the ORO Route Guide to take them to the Reception Center and that the students should wait inside the school because a radiological release had already begun. Subsequently ORO was informed by Controllers that only the ORO buses were to be used to support the evacuation regardless of whether the

schools had indicated the availability of their own transportation resources.

IV. PROTECTIVE ACTION RECOMMENDATIONS FOR SCHOOLS

The exercise activity relating to schools was intended to demonstrate the ability of the ORO to make appropriate protective action decisions (Objective 11), to alert and inform the schools and the public (Objectives 12 and 13), and to implement appropriate protective actions for school children (Objective 19).

In each instance, the FEMA evaluators concluded that the overall objectives were met. With regard to the ORO's ability to make appropriate protective action decisions, the FEMA Exercise Report, Applicants' Exhibit 43F (hereinafter Exercise Report), states that the "NH ORO EOC Staff performed in a very commendable and satisfactory manner." (Exercise Report at page 221 of 428.)

A chronological review of the Exercise indicates that after a SITE AREA EMERGENCY (SAE) was declared at 11:46 a.m., the State of New Hampshire (NH), at 11:52 a.m., directed that NH EPZ school children be retained in school buildings until 5:00 p.m. pending further developments. This precautionary decision, invoked under the discretionary authority section of the NHRERP, Vol. 1, Sec. 2.6, was made by decision-makers present within the NH EOC in Concord. It was based on the time of day, plant conditions, and meteorological data which

indicated a potential impact on NH EPZ communities in the immediate vicinity of Seabrook should a radiological release occur. The intent of this move was to forestall the routine dismissal of students and keep the students intact as a group if evacuation became necessary. The specifics of this process relating to the NH EPZ are detailed in Applicants' Rebuttal Testimony No. 25 (New Hampshire Exercise Performance).

Concurrent with the actions being taken by the State of New Hampshire, the NHY ORO was in the process of implementing the appropriate sections of the SPMC for the Massachusetts EPZ communities, cognizant of the SPMC requirement that concurrence to implement any protective actions must be obtained from the Commonwealth.

Schools were notified by the School Coordinator and School Liaisons of the ALERT declaration and subsequently of the SAE declarations. Activities continued to ready the ORO for a response should it become necessary, including the mobilization of buses and drivers, and ORO Route Guides. Under the SPMC the mobilization of ORO evacuation support resources occurs automatically in accordance with the emergency classification. The speed with which the mobilization takes place is independent of any actions dictated by the ORO EOC. The actual deployment of those resources to specific locations is a function of the PARS.

After the SAE declaration at 11:46 a.m., ORO held a noon ORO status briefing. The ORO Radiological Health Advisor, as prescribed in his procedures, indicated that consideration should be given to precautionary actions for schools (SPMC, IP 2.5, Section 5.2.1) based upon plant conditions, wind direction and availability of transportation resources. Since available data on plant conditions and meteorological information indicated there was no threat to the Massachusetts EPZ communities, i.e., there had been no release, wind speeds were low and winds were from the West blowing out to sea, there was no need for precautionary actions for schools and the decision was made to revisit the issue later. See Attachment E hereto. The subject of schools was addressed during the next ORO status meeting at 12:45 p.m. At this time it was decided to convene a subsequent meeting to discuss schools upon completion of the status briefing. See Attachment F hereto.

The subsequent ORO meeting at 1:25 p.m initiated a discussion of school PARs for Amesbury and Salisbury, but again concluded there was no need for protective actions since there was no indication of a radiological release. The ORO was told that schools would be closing between 2:30-3:00 p.m., and directed that the staff initiate discussions with the Commonwealth regarding any appropriate actions, such as

retaining students at the schools until ORO bus mobilization could be completed.

The Intervenor's allege in MAG EX-11B(2) that upon declaration of the SAE at 7:15 a.m. early dismissal of schools would have been an appropriate PAR. This assessment that protective actions were necessary at this time is inconsistent with the underlying basis of emergency planning and how it correlates with the emergency classification system.

The four emergency classifications identified by the NRC in NUREG-0654, Appendix 1 were developed in order to provide offsite authorities with an assessment of the potential risk to the public health and safety. The class description for a SAE states that "Any releases (are) not expected to exceed EPA Protective Action Guideline exposure levels except near site boundary." (NUREG-0654, Appendix 1, page 1-12). In addition, the actions described for State and/or local authorities do not call for protective actions except for possible sheltering within 2 miles of the plant (id. 1-12). There is no basis to assume that because a SAE has been declared and associated mobilization of emergency response personnel is appropriate that protective actions for the general population are, or will become, necessary.

The precautionary action of early dismissal has inherent problems associated with latch-key children, availability of

transportation resources and notification of parents. Thus, as concluded by FEMA in Guidance Memorandum EV-2: "the unique aspects of a radiological emergency place limits on the use of early dismissal as a viable protective action particularly in heavily populated areas." (EV-2, pg. 12.)

In review of exercise events, however, Applicants note that the decision to keep children in school at normal dismissal time needs to be evaluated in a timely manner prior to the normal end of the school day. Future revisions of the Plan will include this guidance.

Notification of a GENERAL EMERGENCY was received at 1:40 p.m. followed by notification of a radiological release at 1:53 p.m. The Governor's Representative A, at 2:05 p.m., authorized evacuation of Amesbury and Salisbury, with sheltering in the remaining towns and delayed dismissal of all EPZ schools except Merrimac, which was known to have dismissed school. (Exercise Report at 60 of 428.) The associated ORO EBS message #3, Attachment G hereto, was broadcast at 2:20 p.m. The basis of this PAR is described in Applicants' Rebuttal Testimony No. 26 (PAR Made By NHY ORO During the Exercise). The SPMC procedures have the schools take the same protective actions as the general population. School dismissal was delayed in towns to await ORO Route Guides and evacuation buses in Amesbury and Salisbury and implement sheltering in the other towns. The Exercise

scenario resulted in the ORO buses being mobilized immediately upon arrival of the Route Guides at the bus yards. Early evacuation using ORO resources at the SAE was not an available option.

It would have been inappropriate at that point to send students home when parents in Amesbury and Salisbury (and the general public) were being advised to evacuate. The alternative was to leave them in the schools under continuing adult supervision. In the towns that were sheltering, the dose reduction factor of school facilities is considered to be as good or better than the residences to which the students would have been sent and there was no assurance that anyone was home in case an evacuation was subsequently recommended.

The protective action decision was relayed to the School Coordinator and, in turn, to the School Liaisons (at 2:13 p.m.) and this information was relayed to the schools (Control Cell) by the School Liaisons beginning at approximately 2:15 p.m. When the notifications reached schools in Newburyport and Merrimac, Controllers advised the School Liaisons that students in all of the Merrimac schools and those at four of the six Newburyport school facilities had been dismissed and were enroute home. See Attachment H hereto. The remaining schools in the Massachusetts EPZ towns were reached in time to avert the dismissals and direct that

the students be retained to either await ORO buses or implement sheltering.

V. SCHOOL EBS MESSAGES

Intervenors allege in MAG EX-10D, MAG EX-9B and TOH/NECNP EX-2 that ORO EBS Message and News Releases contain inaccurate and inconsistent information.

ORO EBS Message #3 issued at 2:20 p.m. is identical to ORO News Release #7 issued at 3:12 p.m. Intervenors assert that a contradiction exists in page 2 of these messages which states that schools in Amesbury and Salisbury "are being evacuated" followed by language on the last page that Amesbury and Salisbury students "are currently being safely maintained at school, where they will be kept until it is determined that they can be safely moved." See Attachment G hereto. While it is acknowledged that there is some lack of precision in the quoted language of the EBS message, the information was adequate to inform parents that students were being protected at school until they could be evacuated.

In the case of the Newburyport schools, the EBS message indicated that Newburyport students were being maintained at school when, in fact, four schools in that community had earlier dismissed students for the day (simulated). At the time the EBS message was being released, ORO was unaware that school dismissals had begun in Newburyport. The Exercise Report (Objective #13, Narrative Summary, pages 223-224 of

428) recognizes this inconsistency and attributes it to "disconnects between the NHY ORO staff and the Control Cells." Specifically, a Controller independently decided to create exercise data concerning the status of Newburyport schools. However, as detailed in the Exercise Report, page 223 of 428, when the ORO was informed of this inconsistency via a phone call to the Rumor Control personnel at the Joint Telephone Information Center (JTIC), the information proceeded through the organization and correct information was issued in a subsequent EBS message.

ORO News Release #6, Attachment I hereto, was issued at 3:00 p.m. This short summary news release, issued after ORO EBS #3, provided confirming information on the protective actions recommended. The message identified the PAR for the towns and informed the parents that school dismissal was to be delayed except for Merrimac schools which had dismissed their students at their normal dismissal time of 2:15 p.m. This news release was followed up 12 minutes later by News Release #7 which as described above provided greater detail on the status of the schools.

These discrepancies in the EBS messages and news releases would not have caused adverse effects on the health and safety of the students in EPZ schools. In Newburyport and Merrimac, where the public was sheltering, students would have arrived home to their sheltering parents. In Amesbury

and Salisbury, where residents were evacuating, the students were being sheltered awaiting ORO buses. Parents would have proceeded to the school host facility to await the arrival of their children. Retaining the students at schools ensured they would not be sent to homes where parents had evacuated.

The ORO Evacuation Support Coordinator advised the School Coordinator at 3:00 p.m. that schools should be advised to release students to parents who showed up to pick up students, but otherwise to retain them for evacuation by ORO buses. (Exercise Report at 63 of 428.) While concurrent EBS messages advised parents not to pick up children at schools, this direction was aimed at avoiding conflicts that might arise due to protective actions being taken when parents might be trying to retrieve their youngsters at the school. The SPMC does not rely upon parents picking up their children in school or day care as a means of evacuating these facilities. Therefore, directing the parents not to go to the schools or day care does not affect the ability to evacuate these children.

EBS Message #3 (Attachment G) states that school children being evacuated will go to the Reception Center for "their town". The last sentence of the paragraph which was redacted for the Exercise is where information is provided on the name/location of the school host facility where the school children will be taken. This information was redacted

for the Exercise but would be made available in the EBS message during an actual emergency. In addition to this information being stated in an EBS message, it may be found in the Public Information Calendar (Applicants' Exhibit 40, page 3). In fact, the host facility (school) is stated by name and a map with directions provided in the Public Information Calendar which has been distributed to the public since the Exercise.

VI. BUS DISPATCH AND ESTIMATED TIME OF ARRIVAL

The ORO Bus Dispatcher proceeds to the bus yards at a SITE AREA EMERGENCY or higher classification. When directed by the Bus Company Liaison, the Bus Dispatcher deploys buses for an evacuation. The Bus Dispatcher then notifies the Bus Company Liaison "when the last vehicle has been dispatched and the estimated time of arrival of buses sent to schools . . ." (SPMC, IP 2.10, Sec. 5.2.4). The Bus Company Liaison is instructed to notify the School Coordinator of the "estimated time of arrival of buses dispatched to requesting schools." (SPMC, IP 2.10, Sec. 5.1.5.C). This process was successfully demonstrated during the FEMA Graded Exercise.

During the Exercise the Bus Company Liaison (BCL) initiated phone contacts with the bus companies at 9:57 a.m. At 10:47 a.m. when the BCL completed his calls, he was provided with a resource listing by the Controller, detailing location of available buses. When the SAE was declared at

11:46 a.m. the BCL contacted the Staging Area to have the Bus Dispatchers sent to the bus yards. See 11:48 entry of Attachment J hereto. He then contacted the bus yards to have the bus drivers called in. ORO Route Guides, mobilized at the SAE, reported to the ORO Staging Area.

After determining the necessary Route Guide assignments at 1:00 p.m., the BCL was given Exercise Message 8.2 - 22.E which detailed the bus and Route Guide assignments to be used for the Exercise. These scenario assignments were different from those specified in the Bus Company Liaison's procedure (SPMC, IP 2.10). The SPMC minimizes the time for mobilizing school transportation support by utilizing the school's own buses when available and dispatching ORO buses from the bus yard that can provide buses to the schools soonest. While the SPMC has adequate resources to evacuate all the schools, the use of the schools own resources ensures that ORO's need to provide supplemental buses will be minimized and can be provided from bus yards in close proximity to the EPZ. Therefore the arrival of the buses would have been more timely than the Exercise demonstrated because the buses would have come from a closer bus yard and the school's own buses would have been used as available.

The initial protective action recommendation at 2:00 p.m. called for the evacuation of the towns of Amesbury and Salisbury. However at 2:17 p.m., at the Controllers

direction, the BCL contacted the Bus Dispatchers at each yard and had the buses mobilized for all the Massachusetts EPZ towns. See Attachment J hereto. The actual evacuation recommendation for the remaining four towns (ERPA E) was not made till 3:50 p.m. (Exercise Report at 65 of 428.)

The Route Guides upon arrival at the bus yard were briefed and grouped on to buses with the FEMA Controller. The Route Guides then took turns demonstrating their capability to guide the buses to schools, special population facilities and on evacuation bus routes. (Exercise Scenario Section 3.2.6-8).

As a result of both the out of sequence mobilization of buses for ERPA E and the grouping of Route Guides on the buses, only two buses for schools were mobilized in sequence with the exercise time line. These two buses were one from Parent bus company to Seventh Day Adventist School in Amesbury and the second bus was from Big W bus company to Salisbury Memorial School in Salisbury. A review of player and Controller logs indicate that the dispatch of these two buses proceeded as follows:

	<u>Seventh Day Amesbury</u>	<u>Salisbury Memorial Salisbury</u>
Bus Dispatcher notified to roll buses	2:17	2:17
Route Guides arrive at bus yard	2:53	3:15
Bus departs bus yard for school	3:10	3:37
Bus Dispatcher notifies BCL of bus dispatch	3:10	3:45
BCL notifies School Coordinator and Evac. Sup. Coor. of ETA	3:26	3:47
Estimated Time of Arrival (ETA)	3:50	4:45
Bus arrives at school	3:45	5:22

The estimated time of arrival (ETA) for the Seventh Day Adventist school was accurate. The bus traveling to the Salisbury Memorial School encountered road construction which delayed arrival by approximately 15 minutes. See 1600 entry to Attachment K hereto. Discounting this travel delay the ETA underestimated the 90 minute trip time by approximately 20 minutes. Given that the Bus Company Liaison was only estimating travel distances off a map and estimating bus speeds, the arrival time estimate was reasonable.

The ETA is provided to the schools so that they may make timely preparations for their children and staff to board the

buses. The school bus ETAs are not issued as part of the EBS message for the general public. The ETAs provided in the EBS message are for the initiation of the transit dependent bus runs in the towns so that general population evacuees will know when to leave their homes and walk to the bus routes.

The ETA was transmitted from the School Coordinator to the School Liaisons who quickly relayed it to the Amesbury and Salisbury school officials (Control Cell personnel). Since the Control Cell personnel were not at the schools they did not have any information concerning the time the two buses actually arrived. Any bus arrival information reported by the Control Cell was created by the Controllers. The delays in bus arrivals alleged in Intervenor testimony is erroneously based upon simulated data and not on the actual arrival of real buses running in sequence with the exercise time line.

The Bus Company Liaison developed an ETA for the schools in the remaining 4 towns (ERPA E) after these towns were recommended to evacuate at about 4:00 p.m. His estimated time of arrival for all the remaining towns was 5:15. See Attachment J hereto. This time however was only intended to maintain scenario progress since there were no longer any buses left at the yards to be run in exercise sequence. There was no relationship between this estimated time and the actual arrival times of any buses. As previously described,

this information was relayed quickly to the school officials by the School Liaisons.

The Bus Company Liaison did not revise the school ETAs. The second shift Salisbury School Liaison at 4:25 provided the schools with a revised ETA of 5:15 p.m. See Attachment L hereto. This updated time was based upon the misunderstanding that the 5:15 ETA referred to all the towns and not only to the four ERPA E towns. A similar misunderstanding took place when the Bus Company Liaison indicated that the Amesbury evacuation routes would begin at 4:05 p.m.. This information was miscommunicated to the Amesbury School Liaison as a revised ETA for the Amesbury schools. See Attachment M hereto. This misunderstanding will be addressed in future training.

VII. DEMONSTRATION OF SCHOOL BUS ROUTES

The Exercise utilized four buses to demonstrate routes to seven schools and three buses were utilized to run seven day care routes involving 45 day care facilities. Thus a total of 14 route guides on seven buses demonstrated their ability to reach a total of 52 facilities, not counting the runs made to Reception Centers. (Exercise Report at 233 of 428.)

In the seven school runs made, three minor problems arose. One involved a five-minute delay caused when a bus driver took a wrong turn once outside of the EPZ while

enroute to a Reception Center. Another involved a 15-minute delay enroute from the bus yard to the school caused by road construction. The third resulted from a deviation from the prescribed route made by the bus driver enroute from the school to the Reception Center. There were no other problems identified for the seven routes demonstrated.

During the seven day care facility routes demonstrated, two problems were encountered. In one instance there was a twenty minute delay when a bus driver mistakenly turned onto a dead end street. (Exercise Report at 233 of 428.) The second incident involved the failure to locate one of the 45 day care centers due to a map inaccuracy.

Overall, there were 5 problems encountered on runs to 52 facilities. These discrepancies and recommended corrective actions were noted by FEMA (Exercise Report at 233-234 of 428), and NHY has committed to implement corrective actions (Exercise Report at 290 of 428). The problems identified will be addressed by upgrading maps to ensure clarity and accuracy and in NHY's ongoing training program for ORO and support personnel.

ATTACHMENT A

(NHY Records of Conversation with Administrative Assistant to Amesbury Superintendent of Schools Dated 11/17/88; with Newburyport Public School District Superintendent, 10/11/88; with Triton Regional School District Assistant Superintendent, 11/18/88)

RECORD OF CONVERSATION

Telephone X Meeting

Standard Distribution

Additional Distribution

P. Stroup

P. Frechette

M. Hawkins

J. Enoch

D. Tailleart

S. Hertel

D. Bovino

S. Everett

DATE: November 17, 1988 TIME: 11:15 am
 Mrs. Stacia Simmons
CALL TO: Administrative Assistant CALL FROM: Chris Patrinos
 Superintendent of Schools
COMPANY: Amesbury, MA PHONE NO: (508) 338-0507
SUBJECT: 1. Transportation for Handicapped Students
 2. Bus Response Time for Emergencies

Summary of Conversation:

I talked with Mrs. Stacia Simmons, Administrative Assistant to Superintendent Gerber regarding transportation of handicapped students and bus response time for emergencies.

Mrs. Simmons informed me that:

1. Wheelchair Students -

Cashman Elementary School - 3 students with folding wheelchair and walkers
 1 student with wheelchair and a special car seat
 (transported by mother)

Middle School - 1 student with a folding wheelchair

2. All contracted bus drivers respond within one hour of an emergency call.

 RECORD OF CONVERSATION

Telephone X Meeting

Standard Distribution

Additional Distribution

P. Stroup J. Enoch

M. Hawkins S. Hertel

D. Eovino

P. Frechette

DATE: October 11, 1988

VISIT TO: Sup't. Francis Bresnanan VISIT FROM: Chris Patrinos

COMPANY: Newburyport Public School Dist. PHONE NO: 508-465-4456

Meeting to (1) review and update Newburyport RERP profile data for 1988-1989 (2) obtain information on school busing questions (Licensing SUBJECT: Support).

Summary of Conversation:

Sup't. Bresnanan was very cordial, cooperative and helpful. He answered my questions on buses - i.e. double use of buses between towns (none); between school levels - elementary and secondary (yes - 7 of 12); between public and private (Immaculate Conception - yes). Bus driver's response time to local emergencies (storm closings etc.) is within the one hour guidelines. I have forwarded this information to Mike Sinclair.

We also reviewed the 1988-1989 data requirements for updating the RERP profile sections including resident students attending schools outside the EPZ. He accepted last year's profile section (14 pages) for revisions and promised to get it to me as soon as possible. I received all the data from Ass't. Superintendent Joseph Donnelly, the next day in the mail.

ATTACHMENT B

(FEMA Guidance Memorandum EX-3,
Amendment dated 3/7/88, Page 4)

6. The demonstration and evaluation of the objectives should follow the specific provisions of the plan being tested. For example, the activation and deployment of utility offsite response organization personnel should be performed at the emergency classification level designated in the plan. If the plan requires the utility offsite response organization to secure legal authority to carry out necessary functions, they should follow the procedures contained in the plan that would be used in the event of an emergency. Actions in an exercise simulating the securing of appropriate legal authority may include the following: A simulation of the general deputization of utility offsite response organization personnel, a simulation of the ad hoc securing of authority on a case-by-case basis or a simulation of the direct assumption of responsibility by State and local governments.
7. Consistent with the guidance in Supp. 1, evaluation criteria N.1.b., "An exercise shall include mobilization of offsite response organization resources adequate to verify the capability to respond to an accident scenario requiring response. This includes the demonstration of offsite response organization capabilities to interface with non-participating State and local government, but does not include the use of stand-ins for the anticipated State and local response."
8. FEMA will evaluate the timeliness, completeness and effectiveness of interfaces between utility offsite response organization personnel through interactive communications and exchanges with controllers and evaluators. While the controllers will not function as stand-ins, they will provide appropriate opportunities for the players to demonstrate the knowledge and interface capabilities of utility offsite response organization personnel. The utility offsite response organization personnel in facilities will be expected to make telephone calls and forward information to control cells. For utility offsite response organization personnel in the field, evaluators will use directed questions to determine their ability to carry out their interface capabilities. Thus, FEMA will use information secured by both exercise controllers and evaluators to assess the utility offsite response organization's interface and liaison capabilities.
9. This guidance has been jointly developed by the Nuclear Regulatory Commission (NRC) and the Federal Emergency Management Agency staff and has been approved by the Director of the NRC Office of Nuclear Reactor Regulation.

ATTACHMENT C

(NHY Post-Exercise Records of
Conversation With the Three Day Care
Centers That Participated in the Exercise)

RECORD OF CONVERSATION

FILE # 4.2

TELEPHONE MEETING X

Standard Distribution

Additional Distribution

P. Stroup C. Frank

M. Bovino _____

L. Murphy _____

P. Torr _____

DATE: 7/20/88 8:30 A.M.

MEETING WITH: Debra Dash - Director

FROM: Sheila Hertel

COMPANY: Dash Day Care

PHONE NO: (617)-465-7067

SUBJECT: NEWBURY DAY CARE - MEETING

Summary of Conversation:

Met with Debra Dash to discuss any comments or questions she may have had on the 1988 Graded Exercise. Debra gave me a run down of the notifications she received during the exercise. Debra didn't have any comments on the exercise and seemed pleased with how her day care plan worked. Debra was, as always, very pleasant to meet with.

RECORD OF CONVERSATION

FILE # 6.2

TELEPHONE MEETING X

Standard Distribution

Additional Distribution

<u>P. Stroup</u>	<u>C. Frank</u>	<u> </u>
<u>M. Bovino</u>	<u> </u>	<u> </u>
<u>L. Murphy</u>	<u> </u>	<u> </u>
<u>P. Torr</u>	<u> </u>	<u> </u>

DATE: 7-26-88 10:00 AM

MEETING WITH: Donna Spaneas - Director

FROM: Sheila Hertel

COMPANY: Elmwood Day Care

PHONE NO: 617-388-9993

SUBJECT: SALISBURY DAY CARE - MEETING

Summary of Conversation:

Met with Donna Spaneas today to see if she had any comments or questions on the 1988 Graded Exercise. Donna informed me that she felt her notifications during the exercise went well and that she didn't have any questions or problems.

Donna was quite pleasant to meet with.

RECORD OF CONVERSATION

Telephone X Meeting _____

Standard Distribution

Additional Distribution

P. Stroup

L. Murphy

M. Hawkins

C. Frank

D. Bovino

P. Frechette

DATE: 9-1-88 9:00 AM

CALL TO: Nancy MacNeill - Director

CALL FROM: Sheila Hertel

COMPANY: MacNeill Day Care

PHONE NO: (508) 465-7067

SUBJECT: NEWBURYPORT DAY CARE

Summary of Conversation:

Contacted Nancy to see if she wanted to reschedule our meeting or go through her exercise (6/28/88) comments over the telephone. Nancy was pleased with the notifications/information she received on 6/28/88 from the NHY ORO School Liaison. Nancy's only comment on the exercise was that next time she would like to receive a phone call when the drill/exercise is terminated.

On 06/28/88, Nancy involved her day care children in the exercise activities. The children packed an extra set of clothing for the day and Nancy "talked them through" the simulated evacuation. Nancy has established a "buddy system" for the children; whereas each child watches out for another child to aid in response to any emergency. Nancy has implemented this on her own and is very interested in participating in any upcoming Seabrook drills.

ATTACHMENT D

(Exercise Log, Amesbury School Liaison, Pages 1 to 9)

Amendment 3
 19 3.2 Page 8
 Rev. 3
 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: John Carruso Jr
 Date: 6/27/81
 Assigned Facility: Imperial

Time am/pm	Activity
10:15	Reported and assigned to Area Alert at 9:09 Collins Av 20% Fuel Damage no authorization From State notified School Coordinator at State
10:25	Staging Area Declared activated
10:35	All school Liaison have reported & are assigned
10:40	Local EOC Liaison was told to set up operations at Sebrook G.O.B. Bureau NOT Local EOC with Doz. R.K. Only. School Liaison & Spec. Pops Liaison stay at GRA.
11:10	At the time Karen (S.C.) called to start 36 Ballina schools & Daycare at Alert.

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 3.2 Page 6
 Rev. 1
 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: John Giarrusso, Jr.
 Date: 6/28/87
 Assigned Facility: Amesbury

Time am/pm	Activity
11:17	called Seventh Day Adventist - NO ANSWER (For info)
11:25	called Amesbury H.S. - transportation OK - 2:45
11:30	called Amesbury Middle School - transportation OK - 2:45
11:33	called Amesbury Elem. School - transportation OK - 2:45
11:35	called Chestnut School - transportation OK - 2:45
11:37	called Horner Elem. School - transportation OK - 2:45 they have 102 students Boarding
11:40	call Seventh Day Adventist - no answer.
11:44	called Kane (S.C.) & gave info on Schools
11:49	call Sheila Taylor - need transportation
11:54	call Vicki Cook - no transportation
11:57	call Sherrill Barry - need transportation
12:02	call Amelia Crout Day - no transportation
12:07	call Stephanie Dragman - no transportation

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 19 3.2 Page 13
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 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: Sched Liaison
 Name: John Giarusso Jr
 Date: 6/27/87
 Assigned Facility: Amo 6412

Time am/pm	Activity
12:07	Informed of SAE No PAR
12:11	called Dennis Toledo, no transportation
12:13	called Eli Hae, need transport
12:17	called Ken Muse, no transportation
12:20	called Kim Fournier, need transportation
12:22	11:46 - SAE, no release authorization <small>from</small> to close Raula, Sulu, Puka, K Plus Island
12:31	informed King of Day Care that transfer call
12:37	called Don Blake, need transportation
12:40	called Donna Kuhn, no transport
12:42	called Vince Dore, no transport
12:47	call Ben Chad, no transport
12:49	from calls from GOR, she is at x. 3717

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 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: State Liaison
 Name: John F. Arrusso Jr
 Date: 6/28/87
 Assigned Facility: Amherst

Time am/pm	Activity
12:54	Told Gene M. Tate no transport
12:59	Called Wanda Elam no transportation
1:05	Called Denis Millette, need transport
1:06	Told Lt. Controller to stop making phone calls, rest of Day Care know of SAE + need transportation
1:10	informed Karen of current status Day Care listing
1:16	called Amherst HS + informed them of SAE
1:20	called Amherst Middle School + informed of SAE
1:21	called Amherst Elementary + informed of SAE
1:24	called Central School + informed of SAE
1:25	called River Main School + informed of SAE
1:26	all schools + Day Care know of SAE

Amendment 3
 3.2 Page 8
 Rev. 3
 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: John Scarpusso Jr
 Date: 6/28/12
 Assigned Facility: American

Time am/pm	Activity
1:45 1:45	G.E. Berkeley, No PAR, No Release
1:50	No answer at 7th Adventist
1:53	American HS - G.E. informed
1:58	American MS - informed G.E.
2:01	American HS - informed G.E. cancelled after school activities.
2:05	Coburn School - informed of G.E.
2:07	Home Man School - informed of G.E.
2:09	Stella Taylor - informed of G.E.
3:00	Victory Cox - informed of G.E.
3:13	Stennis Drive - informed of G.E.
3:16	Home Man School - informed of G.E.

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 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: John Carrasco Jr
 Date: 6/23/13
 Assigned Facility: Amesbury

Time am/pm	Activity
2:24	G. E. advised schools called as to be held at school. told them how it would work and supply route guide. You are in part come please visit part or to one
2:28	Amesbury H.S. informed of EOC to all students. Lines & we will supply route guide.
2:44	Amesbury Middle School - informed to all students - lines we will supply route guide
2:47	Amesbury Elm School - informed to all students & lines & we will supply route guide
2:51	Columbus School - informed to all students & lines need route guide

Amendment 3
 IP 3.2 Page
 Rev. 3
 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: John Giarrusso Jr.
 Date: 6/29/81
 Assigned Facility: American

Time am/pm	Activity
2:54	Green Man School - told students & busa read note guide. Students were getting into buses. I told them to unload & get into schools here to release going out to sea.
3:04	Called Whittier Regional & asked for Richard Kay & Bruce Deluca. Both were not in. Talked to Kathleen Whitton & she informed her of G.E. at school & keep arriving students at school. She also said little bus went off.
3:10	Sweet Tomatoes - called & waiting for bus.
3:14	Vicki Cook - she is enroute to Ken Co.
3:16	Sherrill Borey - called & waiting for bus.

Amendment 3
 IP 3.2 Page
 Rev. 0
 Attachment 1
 Page 1 of 1

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: John Garrison
 Date: 6/28/97
 Assigned Facility: Amesbury

Time am/pm	Activity
3:16	Centullo told us all the phone calls made
3:17	Route Guide given at 3:55, we will be using our own, I must call schools & tell them to release our
3:23	Amesbury H - told buses will get there at 3:55 pm. Release their buses
3:25	Amesbury MS - told buses will get there at 3:55, release their buses
3:28	Amesbury ES - told buses will get there at 3:55, release their buses
3:31	Chelsea School - told buses will arrive at 3:55, release their buses
3:33	Borac Mass School - told buses will arrive at 3:55 - release their buses

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: John Garrison, Jr
 Date: 4/27/88
 Assigned Facility: Amesbury

Time am/pm	Activity
3:47	Amesbury County High School evacuated
3:50	Stephanie DiCorso's home, evacuated.
3:52	All Day bus hour of time Arrival on buses (approx 4:00 start of route time) NO more calls to be made
4:11	Amesbury H.S. - buses not there
4:14	Amesbury H.S. - buses not there

ATTACHMENT E

(Controller Log, Joe Bisson, Page 4)

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET
(continued)Evaluator Name: Joe BissonPage 4 of

TIME	OBSERVATION
11:22	AAC → RHA: review of FMT placement (also identifying locations of UHY & UHDPHS ^{from} teams) METPAC loc. trends Field team report (UHY) ⇒ 3 showing bkcd only
11:37	UHY O/Unit Response Contact has not signed-in on base 1 MA State Liaison has not " " " "
11:43	ORD Status Mtg - Ops. Rm. S.A.L. having trouble hearing (on speaker phone) Feds. have been notified - ETA at Peace ~ 1400
11:53	ARD-SL, RHA & TA in contact w/ state Liaisons (Area I & MDPH) to provide up-date on plant/area conditions
11:55	ORD announced SAE ^(via PA 11:53) as of 11:46 am
11:59	Mtg in Exec. Office PAR ⇒ close beaches/PRNWL state authorization being pursued NH will sound sirens since EBS ⇒ no PAR RHA brought up subject of schools - ORD wants to revisit later authorization received from MA. Rep A at 12:10 to issue PAR
12:15	ORD briefing ORD ^(via PA 12:15) regarding SAE/authorizations/PAR
12:16	RHA contacted by DPHS rep. regarding support from Feds & Compact AAC requesting two more monitoring teams - acknowledged that there is no release in progress, wants extra teams on standby.

Signature: Joe Bisson

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Title:

ATTACHMENT F

(Controller Log, T. Cotter, Pages 13, 15)

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET
(continued)Evaluator Name: T Cotter Page 13 of 51

TIME	OBSERVATION	
1224	Reported that simas/EGS connected @ 1221	
1229	ORD - order NAs to cease automatic n. of ... shares to occur v. in ... ORO receives press release - at 1200 Gov NH declares state of emergency. Per 17 towns.	
1242	1243 1245	ORD - inform Gov Reg A of NH decl of -- Training - Staging area patched in Plant Status - SAE due to loss of feed pump. due to welding accident 2200 hr est roll shutdown Local Authority - case b. case local community status - directed for local EOC. NH Status - state of emergency. Beaches closed Fed - USCG/DOT/FAA/FEMA - awaiting confirmation of safety zone School Children: 2 nd -3 rd dismissed. will have meeting shift transition - schedule for 1600hrs completion

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Signature: T Cotter Title: C&C Controller

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET
(continued)

Evaluator Name: T Cotten Page 15 of 51

TIME	OBSERVATION
1310	EBS message review by control call ORD STATES WF WILL COMPILE BUT NOTE THAT THIS ACTION IS NOT IN ACCORDANCE WITH OUR PLAN.
1320	Gov off - rep A states they want to review hud copy of EBS
1325	MEETING TO DISCUSS SCHOOL CHILDREN PROT ACTIONS • start basis no indic of release but serious cad radiological: if there was a release no high doses • has resources - 3hr • to contact NH to discuss what they are doing • only Amesbury / cal due to bottled • regulatory • monkey - credits to institute discuss • of mass - govt rep

Signature: T Cotten

Title: C+C Controller

ATTACHMENT G
(ORO EBS Message #3)

GENERAL EMERGENCY MESSAGE (EVACUATION AND SHELTERING;
SEASONAL CLOSURE OF BEACHES AND WILDLIFE REFUGE)

(RELEASE OF RADIOACTIVE MATERIAL)

Date Message Released 6-28-88 *****
Time Message Released 2:20 PM *****

Released by: [Signature]
NHV Offsite Response Director

A GENERAL EMERGENCY was declared at 1:32 PM today at Seabrook Nuclear Power Station. A GENERAL EMERGENCY means that events are in progress that could result in some significant release of radioactive materials with releases expected to go beyond levels set by the United States Environmental Protection Agency outside the Seabrook Station site boundary.

A release of radioactive material into the air occurred at 1:45 PM *****.

The New Hampshire Yankee Offsite Response Organization has been activated and is responding to the problem. Massachusetts government officials have been notified.

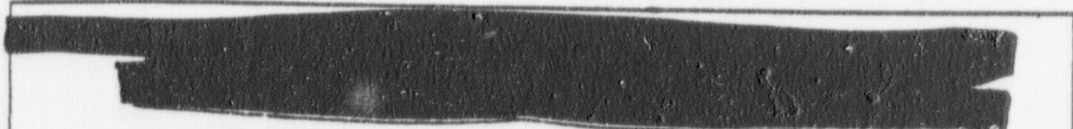
The Governor of Massachusetts recommends the following:

Immediate evacuation is recommended for people in Salisbury and Amesbury.

For Amesbury, the Reception Center is located at the Massachusetts Electric Facility at 1101 Turnpike Street in North Andover. For Salisbury, the Reception Center is at the Massachusetts Electric Facility at 44 River Street in Beverly.

The United States Coast Guard has been requested to enforce a five- ***** mile safety zone in the ocean waters near Seabrook Station. All offshore boaters near the plant are advised to relocate or dock in waters further than ***** miles from the plant. five-

Persons at beach and park areas from Salisbury to Plum Island, including the Parker River National Wildlife Refuge, should leave those areas immediately.



There is a good possibility for this emergency to produce a contaminating accident. It is strongly recommended that as a precaution, persons leaving the towns told to evacuate go to their designated reception centers for monitoring.

GENERAL EMERGENCY MESSAGE (EVACUATION AND SHELTERING;
SEASONAL CLOSURE OF BEACHES AND WILDLIFE REFUGE)

(RELEASE OF RADIOACTIVE MATERIAL,
(continued))

Services offered at the Reception Centers and recommended for all evacuees include: monitoring for contamination; decontamination if necessary; information and message centers; and referral to congregate care centers.

Persons in the communities directed to evacuate are advised to take the most convenient roads south to main routes — Route 1, Route 1A, Interstates 95 or 495 — and travel south in the direction of the Reception Centers. Traffic guides will assist you.

All schools within the communities directed to evacuate are being evacuated to the designated Reception Centers for the community in which they are located. Parents should not drive to school to meet their children since schools are now being evacuated and children are being taken safely by bus directly to their Reception Centers. School children will then be sent to The Host Facility in A where they may be picked up.

If you have been advised to evacuate but do not have your own transportation and cannot get a ride from a neighbor or someone else, buses will travel along main emergency routes to pick you up and take you to a Reception Center. Wait for an announcement stating what time buses will begin traveling these emergency routes in your community. For more information on the bus and evacuation routes, look up the emergency information brochures about Seabrook Station which were mailed to you.

If you have a bedridden, handicapped or other person in your home who needs special evacuation help and who has not made previous arrangements with New Hampshire Yankee, please call the New Hampshire Yankee Offsite Response Emergency Operations Center at 555-1234. If you have already registered, there is no need to call now; help will soon be on its way.

All persons in the area to be evacuated are urged to be good neighbors and help one another by sharing rides and helping others with problems.

If you know of any neighbors or co-workers with language or hearing problems, please check on them to be sure they have been informed of the emergency and understand what they should do.

Before you leave your home or workplace, make sure you have put out all fires and closed fireplace dampers. Lock all doors when you leave. Take blankets and pillows with you for your own use and any medicines which you regularly take. Pack enough clothing for several days. If you are at work outside the evacuation area, but live inside it, you may return home to accomplish these chores and collect family members or necessary belongings.

GENERAL EMERGENCY MESSAGE (EVACUATION AND SHELTERING;
SEASONAL CLOSURE OF BEACHES AND WILDLIFE REFUGE)

(RELEASE OF RADIOACTIVE MATERIAL)

(continued)

People living in the communities of Merrimac/ Newbury/ West Newbury/ Newburyport will be safer if they SHELTER IN PLACE immediately. This means to remain indoors. Staying indoors will provide you with increased protection from radioactive material released from Seabrook Station. To get the greatest benefit from protection provided by sheltering, you should take the following actions:

- o Shelter indoors.
- o Make sure all windows and doors are closed tightly.
- o If you are in your car, close all windows and vents while you travel to your destination.
- o Turn off all fans, heating or air conditioning systems if they bring in outside air.
- o Take a radio with you and move to the room with fewest windows and doors.
- o Keep all members of your household indoors and stay tuned to your local Emergency Broadcast System radio station.
- o Remain indoors until told by local or state officials that it is safe to go outside, or until further protective actions are recommended.

Schools, hospitals and other institutions in the communities advised to shelter are taking similar sheltering actions. Officials have instructions for protecting the children or other persons in their care until sheltering is no longer necessary. Parents and relatives are advised not to call the schools or other institution, nor to drive to the schools to attempt to pick up their children. Community safety will be better protected if the schools are permitted to conduct sheltering activities over the next several hours.

According to State officials, farmers and dairy operators in the communities of Salisbury, Amesbury, Merrimac, Newbury, West Newbury, and Newburyport, should:

- * Move all milk-producing livestock inside a barn or other shelter.
- * Provide the animals with stored feed and water and reduce sources of outside air into their buildings.
- * Move outside feed supplies indoors or cover them, if possible.
- * Store back-up supplies of water inside buildings and cover outdoor wells, rainbarrels, tanks or other sources of collected water.

Please do not use the phone except in case of personal emergency.

If you are at home, look up the annual emergency information mailed to you. If you are sheltering at your workplace or other public building, check the local telephone book for additional information. This information could be useful in understanding future messages.

GENERAL EMERGENCY MESSAGE (EVACUATION AND SHELTERING;
SEASONAL CLOSURE OF BEACHES AND WILDLIFE REFUGE) Page 4 of 4

([REDACTED]) RELEASE OF RADIOACTIVE MATERIAL)
(continued)

If you are at home, look up the annual emergency information mailed to you. If you are sheltering at your workplace or other public building, check the local telephone book for additional information. This information could be useful in understanding future messages.

Parents with children attending school within Salisbury, Amesbury, [REDACTED], Newbury, West Newbury and Newburyport are advised that their children are currently being safely maintained at school, where they will be kept until is determined that they can be safely moved.

This message applies to all public, private and parochial schools and preschool facilities within the affected area. To avoid confusion, parents are urged not to attempt to pick up their children at schools within the affected area.

To repeat: Seabrook Station has declared a General Emergency condition.

This message will be repeated every fifteen minutes or until new information is available. Keep tuned to this EBS station for the latest official information.

If you are in any of the New Hampshire eastern Rockingham County communities, you should tune to a local radio station in New Hampshire for news about your community.

ATTACHMENT H

(Exercise Log, Newburyport School Liaison, Page 6)

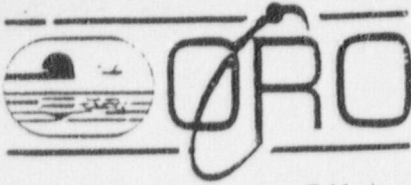
Amendment 5
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 Attachment 1
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CHRONOLOGICAL EVENT LOG

Position: SCH. LIA-Nhpt
 Name: I. DEWITT
 Date: 6-28-88
 Assigned Facility: S.A.

Time am/pm	Activity
14:33	LEOCL CALLED WITH SITUATION UPDATE
14:37	SCHOOL COORD CALLED - STATUS UPDATE RELEASE AT 13:46
14:38	SA LDR: 13:55 RELEASE AT SS
3' 14:42	(BELLEVILLE SCH) - NOTIFIED TO SHELTER STUDENTS
3' 14:45	(KELLY SCH) - STUDENTS HAVE DEPARTED NOTIFI. TEACH
3' 14:48	(WOCK HILL SCH) - " " " " TO SH
2' 14:51	(Nhpt. HS) - " " " "
3' 14:53	(IMMACULATE CONCP) - NOTIFIED TO SHELTER STUDENTS
3' 14:56	(GTR Nhpt. ED Coll) - STUDENTS DEPARTED - TEACHERS TO NOTIFIED
14:58	NOTIFIED SCH. COORD. - ALL SCHOOLS NOTIFIED TO SH
15:04	FEDERAL ST (CIRCLE OF FRIENDS-DCIN) - NOTIFIED TO SHELTER
15:08	(MRS MURRY'S - DCIN) - " " " "
15:10	MILK ST DCIN (CIRCLE OF FRIENDS) - " " " "
15:15	DCIN MY SCHOOL DAY CARE CTR - " " " "
15:18	SCHOOL COORD. ASSISTANT - CALLED - RUMOR THAT TEACHERS LEAVING SCHOOLS - NOT TRUE TO MY KNOWLEDGE. "TOLD HER THAT ALL SCHOOLS & DAY CARE / IVA FACILITIES WERE NOTIFIED TO SHELTER.
-56- 15:15	CONTROLLER DELIVERED A MESSAGE: STOP MAKING CALLS - ALL SHELTERING NOTIFICATION:

ATTACHMENT I
(ORO News Release #6)



NEWS RELEASE

Massachusetts Offsite Response Organization of New Hampshire Yankee

THIS IS A DRILL *** THIS IS A DRILL *** THIS IS A DRILL

Release # 06

GENERAL EMERGENCY PROTECTIVE ACTIONS

Page 1 of 2

NEWINGTON, N.H. — 6/28/88 - At 2:05 p.m., New Hampshire Yankee's Offsite Response Organization (NHY ORO), under authority of the Governor of Massachusetts, recommended that residents in the towns of Salisbury and Amesbury be advised to evacuate due to the General Emergency at the Seabrook Station Nuclear Power Plant. Residents in the towns of Merrimac, Newbury, West Newbury and Newburyport are advised to take shelter until advised by local Emergency Broadcast System radio stations that instructions have changed. In addition, school dismissals will be delayed in the towns of Salisbury, Amesbury, Newbury, West Newbury, and Newburyport. Merrimac schools will dismiss at their normal dismissal time of 2:15 p.m.

There have been releases of radioactive material from the plant.

Emergency notification sirens in the towns of Salisbury and Amesbury / Merrimac, Newbury, West Newbury, Newburyport were sounded at 2:17 p.m.

Residents in Amesbury can evacuate to the reception center at the Massachusetts Electric Company, 1101 Turnpike Road (Route 114), North Andover, Mass.

Residents in Salisbury can evacuate to the reception center at the Massachusetts Electric Company, 44 River Street, Beverly, Mass.

Residents are advised to take any belongings which they would need to remain away from home for a few days, including extra clothing, personal items and medical items. They should keep their car radio tuned to an Emergency Broadcast System station.

Upon registration at the reception centers, if necessary, residents can travel to one of several congregate care facilities in Massachusetts if they have no other place to seek shelter. Pets or farm animals should be sheltered and left at home with enough food and water for several days.

Residents who have no means of transportation will be evacuated by buses which will be arriving in their towns.

For the latest information, Massachusetts residents should listen to their local Emergency Broadcast System radio stations: WLVT-FM (92.5) and WHAV-AM (1490).

According to Peter Stroup, Offsite Response Director, the recommendation was made due to the General Emergency at the Seabrook Station Nuclear Power Plant, which was declared at 1:32 p.m.



NEWS RELEASE

Massachusetts Offsite Response Organization of New Hampshire Yankee

A General Emergency is the highest emergency classification that applies to nuclear power plants. This emergency classification involves an actual or imminent substantial failure of plant functions needed for the protection of the public.

NHY ORO emergency personnel are responding to support this sheltering recommendation. NHY ORO personnel are staffing the Emergency Operations Facility in Newington, N.H., reception centers, congregate care centers and other emergency facilities in Massachusetts.

To address rumors and questions, toll-free numbers have been established for Massachusetts residents. These should be used to check questionable information about the emergency.

To receive information, Massachusetts residents can call 1-800-111-2222.

For recorded information on station conditions only, residents can call 1-603-111-2111.

For recorded information concerning Massachusetts, residents can call 1-617-111-2112.

For recorded information concerning New Hampshire, residents can call 1-603-111-2113.

Members of the media with questions on the New Hampshire Yankee NHY ORO can call 1-800-111-2223. Members of the media are urged to come to the Media Center in Newington, N.H.

THIS IS A DRILL*

Approved: _____

Date/Time: 10/28/88 2:40pm

Approved: *[Signature]*

Date/Time: 10/28/88 2:40pm

Approved: _____

Date/Time: _____

ATTACHMENT J

(Controller Log, C. MacDonald, Pages 1, 2, 3, 4)

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET

Evaluator Name: C MAC DONALD Drill/Exercise Date: 4/28

Work Telephone No. _____ Location: _____

Drill/Exercise Title: _____

Time Drill Commenced: _____ Time Drill Terminated: _____

OBSERVATIONS/COMMENTS

Page 1 of 9

NOTE: Observations should include the proper and effective use of procedures, equipment and personnel. Please summarize your comments on a blank observation sheet and attach to front of your gross observation sheets.

TIME	OBSERVATION
9:21	ALERT NOTIFICATION 109:09
9:50	BUS CO. LIAISON ARRIVED
9:52	GAVE MESSAGE NO. ORD-1 TO BCL
9:56	ADMIN. AIDE FR BCL ARRIVED
10:02	MESSAGE GIVEN TO BCL BY ASST. DIRECTOR
10:06	BCL STARTED INITIAL CALLS TO BUS YARDS.
	BCL TELLS ADMIN AIDE TO GO IN
	RESPONDING CALLS FROM BUS YARDS TO
	VERIFY DRILL IS GENUINE AND NOT A PRANK
10:45	BCL COMPLETED CALLS TO BUS YARDS
10:47	I GAVE BUS CO. RESOURCES LISTING TO BCL.
	AND HE UPDATED THE BUS STATUS BOARD.

Signature: C Mac Donald - 61 - Title: CONTROLLER

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET
(continued)

Evaluator Name:

C. MacDONALD

Page

2 of 4

TIME	OBSERVATION
11:01	BCL SENDS WRITTEN MESSAGE TO EVAC SUPPORT CORP RE NUMBER OF BUSES DRIVERS/VANS
11:03	BCL SENDS WRITTEN MESSAGE TO E.S. CORP RE # OF BUSES NEEDED TO EVAC 10 MIKE TOWNS.
11:27	BCL RECEIVES 1ST REQUIREMENTS FOR STOPS IN MERRIMAC
11:30	BCL CALLS STAGING AREA TO MAKE ASSIGNMENT OF BUS VARD DISPATCHERS AND BAYE GUIDES
11:41	SITE AREA EMERGENCY DECLARED
11:48	BCL CALLS STAGING AREA AND HAS THE BUS VARD DISPATCHERS SENT TO THE BUS VARDS.
12:00	BCL BEGINS CALLS TO BUS VARDS TO NOTIFY THEM OF SITE AREA EMER. AND ASK THEM TO BRING THEIR DRIVERS WITH THE BUS VARD DISPATCHERS TO STAGING AREA
12:00	BCL RECEIVES INFO THAT DEE BUS IS SHORT 1 TRAINED DRIVER. BCL IS TOLD TO HAVE DEE BUS SUPPLY BUS WITH UNTRAINED DRIVER

Signature:

C. MacDONALD

Title:

CONTROLLER

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET
(continued)

Evaluator Name:

C. VINCIGUACCIPage 3 of 9

TIME	OBSERVATION
1:03	BCL COMPLETES UPDATING STATUS BOARDS FOR SCHOOLS IN CARES LOST, ETC
1:10	BCL CALLS SAL + MAKES REAL BUS ASSIGNMENT WITH ROUTE GUIDES.
1:32	GENERAL EMERGENCY DECLARED.
1:33	DISPATCHERS START ARRIVING AT BUS YARDS (PARENT)
2:01	BCL IS ADVISED OF PAR TO EVACUATE AMESBURY + SALISBURY.
2:07	BCL CALLS SAL AND ASKS HIM TO DISPATCH ROUTE GUIDES TO ALL BUS YARDS.
2:17	BCL CALLS BUS YARDS DISPATCHERS TO ROLL BUSES BUCKINGHAM DENISE PARENT BIG W ETC
2:58	SCHOOL COORDINATOR SAVS THE SCHOOLS IN AMESBURY + SALISBURY CAN PROVIDE THEIR OWN BUSES
3:05	BCL MEETS WITH EINC. SUPERST COORD + IS TOLD TO SEND ROUTE GUIDES TO SCHOOLS IN AMESBURY + SALISBURY IN THEIR PERSONAL AUTO'S.

Signature:

C. Vinciguacci⁶³²⁴

Title:

CONTROLLER

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET
(continued)

Evaluator Name: Michael Donald Page 4 of 9

TIME	OBSERVATION
3:15	LEAD CONTROLLER INTERPRETS AND TELLS EUNC. SUPPORT COORD THE INFO. FROM SCHOOL COORD IS INCORRECT. EUNC. SUPPORT COORD TELLS BCL TO IGNORE PREVIOUS DATA AND CONTINUE WITH ORIGINAL PLAN.
3:26	BCL WRITES MESSAGE - EUNC SUP. ARE THAT BUSES GOING TO HILLSBORO ETA AT 1550.
3:38	BCL NOTICES EUNC SUP COORD. ETA FOR HILLSBORO SALISBURY IS 1645.
3:49	BCL NOTICES EUNC SUP COORD THAT ALL BUSES (REMAINING) HAVE BEEN DISPATCHED.
3:53	DIRECTOR ADVISES BCL TO EVACUATE REMAINING FOUR TOWNS.
3:59	BCL DISPATCHES BALANCE OF BUSES TO EVACUATE REMAINING 4 TOWNS - ETA OF BUSES IN TOWNS IS 1715 HOURS.

Signature: Michael Donald Title: CONTROLLER

ATTACHMENT K

(Controller Log, Don Miller - 2 Pages)

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET

Evaluator Name: DON MILLER
~~STEVE MELESKI~~

Work Telephone No. 474-9521 x ²⁰⁴3248

Drill/Exercise Date: 6/28/88

Drill/Exercise Title: GRADED EXERCISE

Location: BIG-W-SALISBU

Time Drill Commenced: 10:10 Time Drill Terminated: _____

OBSERVATIONS/COMMENTS

Page ___ of ___

NOTE: Observations should include the proper and effective use of procedures, equipment and personnel. Please summarize your comments on a blank observation sheet and attach to front of your gross observation sheets.

TIME	OBSERVATION
1010	DISPATCHED FROM SSA TO <u>BIG W BUS YARD</u>
1130	ARRIVED AT <u>BIG W BUS Yd.</u>
1150	TALKED TO CHUCK McPENNINO ABOUT EVALUATOR/PLAYER INTERFACE - EVALUATOR WILL QUESTION PLAYERS ENROUTE TO FACILITY.
1420	ROUTE GUIDES ARRIVED AT BUS YARD WITH DOSIMETRY RECORD KEEPERS.
1426	BUS DISPATCHER ESTABLISHED CONTACT WITH IDF ^{BUS} DISPATCH LIASON - BUS DISPATCHER INDICATED THEY HAD LEFT SSA AT 12:40, CAME TO HAVERHILL, THEN <u>BIG W.</u>
1436	CELLULAR PHONE ACTIVATED
1515	ROUTE GUIDES ARRIVED @ BUS YARD

FORM 9.0

SEABROOK STATION EMERGENCY PREPAREDNESS
DRILL/EXERCISE CONTROLLER OBSERVATION SHEET
(continued)Evaluator Name: Don Miller Page of

TIME	OBSERVATION
1525	BUS DRIVER Dick Kennedy (BOARDED BUS)
	Rt. BRUCE OVERTON ASSIGNED TO BUS #66
1530	RADIO ACTIVATED. CHANNEL 3
1537	UNDERWAY
	- DOSIMETRY INFO
	BRUCE / 0-200 HR Direct Read Dosimetry # 109280
	0-20 R " " " # 007050
	TLD 0002620
	DICK 0-200 HR DRD # 205849
	0-20 R 011312
	TLD 0009282
1600	cleared ROAD CONSTRUCTION.
	- APPROX 15 MIN TRAVEL DELAY
1722	ARRIVED AT MEMORIAL SCHOOL
1730	ROUTE GUIDE DIVERTED FROM CHANNEL 3 TO CHANNEL 7 FROM SSA. SPECIAL VEHICLE DISPATCHER. ROUTE GUIDE NOT SURE WHERE TO GO ONCE AT SALISBURY MEMORIAL SCHOOL

- 67 -

Signature: _____ Title: _____

ATTACHMENT L

(Exercise Log, Salisbury School Liaison, Page 1)

CHRONOLOGICAL EVENT LOG

Position: Salem High School Liaison
 Name: Mike Parsons
 Date: 6-28-28
 Assigned Facility: Salem / Stagg area

Time am/pm	Activity
16:25	Call schools to advise of time change on ETA of buses 17:15
16:30	check day care on ETA of 17:15 for arrival of buses.
16:45	Call school coordinator and advise - schools notified of bus ETA. daycare " " " " ETA 17
17:20	Check with schools - no sign of buses
17:25	Call school coordinator to verify buses ETA is still 17:15 - no change at this time
17:40	Check day care - Aeland + Lee no sign of buses yet

ATTACHMENT M

(NHY ORO Message Form - BCL-5, 1 Page; Controller
Log, Amesbury School Liaison, 1 Page)

NHY ORO MESSAGE FORM

No. BCL-5

	NHY ORO Title	Location	Name
From:	BUS CO LIAISON	EOC	JEFF HEBERT
To:	EVAC SUP COND	EOC	GILL CAWILL

Date/Time: 6/28 3:30

Message: ETA FOR AMESBURY EVAC ROUTES STARTING
IS 16:05

ETA FOR SALISBURY EVAC ROUTES STARTING
IS 1645

ETA FOR SALISBURY DAY CARE ROUTES IS 1645

Routing for:
Response Required:

Action

Information

In Response to Message No. _____

J. Hebert
Signature

Distribution of copies:

- 1 copy to addressee
- 1 copy to facility leader
- 1 copy retained by communicator/originator

CHRONOLOGICAL EVENT LOG

Position: School Liaison
 Name: Yvonne Skuncik
 Date: 6/28/88
 Assigned Facility: Staging Area - Amesbury

Time am/pm	Activity
3:55	Arrived at Staging Area, received assignments & relieved John at Amesbury
4:10	to town evoc.
4:15	reported Checked w/Schools to see if buses arrived New EST TIME 4:00 - not arrived Amesbury High School Ames. Middle School, Ames. Elementary, Cashman School will call re back when buses arrive.
4:35	Buses arrived at Horace Mann School
4:40	Buses arrived at Cashman School
4:42	Buses arrived at Amesbury Middle School
4:42	Sheila Taylor - (Darcure) has not caught the bus yet - Sherrie Dawey (no bus yet) Eliz. Howe
4:45	Amesbury High - Buses have arrived

Pg. 3

6:40

7:00

General Emergency continues

Release was terminated - 11pm Amesbury, Merrimack & Salisbury will evaluate.