

*Docket Files*

APR 4 1986

Docket No.: 50-443

Mr. Robert J. Harrison  
President and Chief Executive Officer  
Public Service Company of New Hampshire  
Post Office Box 330  
Manchester, New Hampshire 03105

Dear Mr. Harrison:

SUBJECT: TRIP REPORT: FIRE PROTECTION SITE AUDIT - SEABROOK STATION,  
UNIT 1

From January 27 to 31, 1986, two Nuclear Reactor Regulation (NRR) staff members visited Seabrook Station, Unit 1 to help Region I perform the post-fire safe shutdown capabilities inspection of the Station. The results of the inspection are addressed in Inspection Report 50-443/86-03.

In addition to helping Region I, the NRR staff members performed an audit of your fire protection program for Seabrook Station, Unit 1. As a result of the staff's audit, a number of concerns were expressed pertaining to the Seabrook commitments, the justifications for particular fire protection designs and the degree of compliance with staff guidelines. A summary of these concerns is in the enclosed trip report. Your staff agreed to respond to these issues in a time frame that will support the Seabrook Station fuel load date.

At the close of the audit, your staff was informed that we would perform a followup plant site visit prior to fuel load to review those aspects of the fire protection program that were incomplete at the time of this audit.

Sincerely,

Victor Nerses, Project Manager  
PWR Project Directorate #5  
Division of PWR Licensing-A

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "Victor Nerses".

Victor Nerses, Project Manager  
PWR Project Directorate #5  
Division of PWR Licensing-A

Mr. Robert J. Harrison  
Public Service Company of New Hampshire

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Seabrook Nuclear Power Station

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## DIVISION OF PWR LICENSING-A/PLANT SYSTEMS BRANCH

## SEABROOK STATION UNIT 1

DOCKET NO. 50-443

## TRIP REPORT

Between January 27 to 31, 1986 the staff conducted an audit of the applicant's fire protection program for Seabrook Station, Unit 1. The general fire protection features were observed to be in various stages of completion, with none being complete at the time of the audit. As a result of the audit, a number of concerns were expressed pertaining to the applicant's commitments, justifications for particular fire protection provisions, and the degree of compliance with staff guidelines. These concerns are summarized below. The applicable sections of the staff's fire protection guidelines are referenced after each concern.

1. Composite sheetrock/tube steel barriers are serving as fire barriers in several plant areas. Fire test results were not available during the audit to substantiate the fire resistance rating of the barrier design (Section C.5.a of BTP CMEB 9.5-1).
2. A number of fire barrier penetrations, including bus duct penetrations and seismic gaps, are not protected by penetration seal designs qualified by fire test (Section C.5.a of BTP CMEB 9.5-1).
3. A number of door assemblies installed in fire barriers are not labeled by a nationally recognized testing laboratory (Section C.5.a(5) of BTP CMEB 9.5-1).
4. Structural steel forming a part of or supporting a number of fire barriers is not protected to provide fire resistance equivalent to that required of the barrier (Section C.5.6.(2)(a) of BTP CMEB 9.5-1).
5. Charcoal filters are not protected in accordance with the guidelines of Regulatory Guide 1.52 (Section C.5.f.(4) of BTM CMEB 9.5-1).
6. By letter dated April 1, 1982, the applicant submitted its comparison to Appendix R to 10 CFR 50. During the audit, the applicant informed the staff that in view of continued program development, this comparison was outdated. The applicant agreed to revise the comparison to reflect the plant.

7. Many of the details of the fire protection features observed in the plant were not as documented in the Seabrook Station SER. The applicant attributed this to errors in the SER and agreed to identify all such errors to the staff.