

Docket Nos.: 50-443  
and 50-444

APR 7 1986

DISTRIBUTION

✓ Docket File  
NRC PDR  
Local PDR  
PBD5 Reading  
JPartlow  
BGrimes  
ERossi  
BStevens  
EJordan  
VNerses  
Attorney, ELD

ACRS (10)  
MRushbrook

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

Dear Mr. Harrison:

Subject: Seabrook - Requests for Additional Information Related to Instrumentation  
and Control Open and Confirmatory Issues

We reviewed the information you provided us on February 19, 1986 and based on our review to date, it has been determined that your response is incomplete. The enclosure to this letter identifies to date the additional information required from you to resolve the issues noted. To prevent any further delays from completing our review, I would appreciate it if you would provide us an expeditious response.

The staff is in the process of reviewing additional information supplied for other outstanding issues which require a more in-depth review due to the nature and scope of the subjects. Thus, additional requests for information may be forthcoming related to these items upon completion of the staff's review effort.

Questions or additional information regarding this matter should be directed to me at (301) 492-8535.

Sincerely,

151

Victor Nerses, Project Manager  
PWR Project Directorate No. 5  
Division of PWR Licensing-A

Enclosure:  
As stated

cc: See next page

PB5  
VNerses/yt  
4/7 /86

8604160030 860407  
PDR ADOCK 05000443  
E PDR

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

Seabrook Nuclear Power Station

cc:

Thomas Dignan, Esq.  
John A. Ritscher, Esq.  
Ropes and Gray  
225 Franklin Street  
Boston, Massachusetts 02110

E. Tupper Kinder, Esq.  
G. Dana Bisbee, Esq.  
Assistant Attorney General  
Office of Attorney General  
208 State House Annex  
Concord, New Hampshire 03301

Mr. Bruce B. Beckley, Project Manager  
Public Service Company of New Hampshire  
Post Office Box 330  
Manchester, New Hampshire 03105

Resident Inspector  
Seabrook Nuclear Power Station  
c/o US Nuclear Regulatory Commission  
Post Office Box 700  
Seabrook, New Hampshire 03874

Dr. Mauray Tye, President  
Sun Valley Association  
209 Summer Street  
Haverhill, Massachusetts 01839

Mr. John DeVincentis, Director  
Engineering and Licensing  
Yankee Atomic Electric Company  
1671 Worcester Road  
Framingham, Massachusetts 01701

Robert A. Backus, Esq.  
O'Neil, Backus and Spielman  
116 Lowell Street  
Manchester, New Hampshire 03105

Mr. A. M. Ebner, Project Manager  
United Engineers & Constructors  
30 South 17th Street  
Post Office Box 8223  
Philadelphia, Pennsylvania 19101

William S. Jordan, III  
Diane Curran  
Harmon, Weiss & Jordan  
20001 S Street, NW  
Suite 430  
Washington, D.C. 20009

Mr. Philip Ahrens, Esq.  
Assistant Attorney General  
State House, Station #6  
Augusta, Maine 04333

Jo Ann Shotwell, Esq.  
Office of the Assistant Attorney General  
Environmental Protection Division  
One Ashburton Place  
Boston, Massachusetts 02108

Mr. Warren Hall  
Public Service Company of  
New Hampshire  
Post Office Box 330  
Seabrook, New Hampshire 03874

D. Pierre G. Cameron, Jr., Esq.  
General Counsel  
Public Service Company of New Hampshire  
Post Office Box 330  
Manchester, New Hampshire 03105

Seacoast Anti-Pollution League  
Ms. Jane Doughty  
5 Market Street  
Portsmouth, New Hampshire 03801

Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Mr. Diana P. Randall  
70 Collins Street  
Seabrook, New Hampshire 03874

Richard Hampe, Esq.  
New Hampshire Civil Defense Agency  
107 Pleasant Street  
Concord, New Hampshire 03301

Public Service Company of  
New Hampshire

- 2 -

Seabrook Nuclear Power Station

cc:

Mr. Calvin A. Canney, City Manager  
City Hall  
126 Daniel Street  
Portsmouth, New Hampshire 03801

Ms. Letty Hett  
Town of Brentwood  
RFD Dalton Road  
Brentwood, New Hampshire 03833

Ms. Roberta C. Pevear  
Town of Hampton Falls, New Hampshire  
Drinkwater Road  
Hampton Falls, New Hampshire 03844

Ms. Sandra Gavutis  
Town of Kensington, New Hampshire  
RDF 1  
East Kingston, New Hampshire 03827

Chairman, Board of Selectmen  
RFD 2  
South Hampton, New Hampshire 03827

Mr. Angie Machiros, Chairman  
Board of Selectmen  
for the Town of Newbury  
Newbury, Massachusetts 01950

Ms. Cashman, Chairman  
Board of Selectmen  
Town of Amesbury  
Town Hall  
Amesbury, Massachusetts 01913

Honorable Peter J. Matthews  
Mayor, City of Newburyport  
Office of the Mayor  
City Hall  
Newburyport, Massachusetts 01950

Mr. Donald E. Chick, Town Manager  
Town of Exeter  
10 Front Street  
Exeter, New Hampshire 03823

Mr. Alfred V. Sargent,  
Chairman  
Board of Selectmen  
Town of Salisbury, MA 01950

Senator Gordon J. Humphrey  
ATTN: Tom Burack  
U.S. Senate  
Washington, D.C. 20510

Mr. Owen B. Durgin, Chairman  
Durham Board of Selectmen  
Town of Durham  
Durham, New Hampshire 03824

Charles Cross, Esq.  
Shaines, Mardigan and  
McEaschern  
25 Maplewood Avenue  
Post Office Box 366  
Portsmouth, New Hampshire 03801

Mr. Guy Chichester, Chairman  
Rye Nuclear Intervention  
Committee  
c/o Rye Town Hall  
10 Central Road  
Rye, New Hampshire 03870

Jane Spector  
Federal Energy Regulatory  
Commission  
825 North Capital Street, NE  
Room 8105  
Washington, D. C. 20426

Mr. R. Sweeney  
New Hampshire Yankee Division  
Public Service of New Hampshire  
Company  
7910 Woodmont Avenue  
Bethesda, Maryland 20814

Mr. William B. Derrickson  
Senior Vice President  
Public Service Company of  
New Hampshire  
Post Office Box 700, Route 1  
Seabrook, New Hampshire 03874

ENCLOSURE

SEABROOK  
REQUESTS FOR ADDITIONAL INFORMATION

SER 7.2.2.4 (RAI 420.66) Turbine Trip on Reactor Trip

- Details should be provided to verify that the latest turbine trip on reactor trip (TT-0-RT) design complies with the Westinghouse reliability requirements related to IEEE 279 (Sections 4.2, 4.3, 4.5, 4.6, and 4.10 specifically). If not, then justification should be provided for any deviations from the required design criteria. This information should confirm that the latest TT-0-RT design for Seabrook has been satisfactorily resolved with Westinghouse (i.e., approved by Westinghouse).
- Information is needed to describe the isolation devices utilized for the TT-0-RT circuitry. This should include the cross-trip circuits provided from the redundant trains to trip the turbine emergency trip system. This information should be provided consistent with the staff's position related to the required qualification of isolation devices.
- Information is required to describe any differences that exist between Seabrook's TT-0-RT circuitry and that to be implemented on Vogtle.

SER 7.3.2.4 (RAI 420.73) Instrumentation for Safety Functions

- The applicant should confirm that the responses to 420.73 items e) and h) are still valid (i.e., all safety functions can be periodically tested without interfering with normal plant operation or the use of jury rigs or lifted leads). If not, then provide information detailing the nonconformance with the required periodic testing design feature including justification.

- For RWST Lo-Lo level recirculation actuation, explain what is meant by the phrase, "Increased Surveillance will be employed to ensure operability..." as related to the Technical Specification periodic surveillance requirements.

SER 7.4.2.1 (RAI 420.48) Station Service Water System

- Need to address the correlation between heat treatment for service water tunnels and D.G. full load testing as related to worst-case temperature conditions.
- Need to address possible reopening of service water isolation valves subsequent to loss of offsite power.

SER 7.4.2.4 (RAI 420.38, 420.39) Remote Shutdown

- Need to confirm that disabling of SSPS will not affect Cooling Tower Actuation signal.
- Need to provide a list to identify each piece of equipment affected by disabling of the SSPS. This should include identification of whether the equipment will have manual control capability from outside CR once SSPS is disabled. If no manual control capability exists, then justification information must be provided for each case as related to the staff's position on remote safe shutdown.
- Need information on the time allowed for manual actions required should the cooling tower be actuated automatically and to verify that such manual actions are included in the remote shutdown procedures. Should include a discussion on how the operator is alerted from outside the CR that the cooling tower has actuated automatically.



- Should provide information to address the effect of nonseismic service water system pipe failures not large enough to give an automatic cooling tower actuation signal.
- Information is required to address actuation of cooling tower from outside CR assuming automatic signal not present. Should discuss correlation between automatic trip signal (TA) and transfer of control to the remote shutdown station.
- Should revise FSAR Section 7.4.6 to add information deleted in Amendment 56 related to events of Chapter 15 that produce the most severe consequences that are pertinent to safe plant shutdown.
- Verify that power for indication required for safe plant shutdown remote from the CR is Class 1E.

SER 7.5.2.2 (RAI 420.16) Radiation Data Management System

- Need information to verify ability of Class 1E RDMS monitors to perform the required safety function during application of the fault tests.

SER 7.6.7.6 (RAI 420.54) Transfer of Injection

- Need information to verify that lights will be verified as part of Technical Specification surveillance requirements for the safety injection instrumentation trip channels.