



SEABROOK STATION  
Engineering Office

Public Service of New Hampshire

New Hampshire Yankee Division

January 15, 1986

SBN-924

T.F. Q2.2.2

United States Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

Attention: Mr. Richard W. Starostecki, Director  
Division of Project and Resident Programs

References: (a) Construction Permits CPPR-135 and CPPR-136, Docket  
Nos. 50-443 and 50-444  
(b) PSNH Letter SBN-895, dated November 15, 1985, "Interim  
10CFR50.55(e) Report: GT STRUDL Computer Program Error,"  
J. DeVincentis to R. W. Starostecki

Subject: Final 10CFR50.55(e) Report: GT STRUDL Computer Program Error  
(CDR 85-00-12)

Dear Sir:

On November 15, 1985 [Reference (b)], we committed to provide a final report on our evaluation of the potential deficiency caused by an error in the GT STRUDL Computer Program. We have completed the evaluation of this deficiency and have determined it not to be a reportable 10CFR50.55(e) condition.

#### Description of Deficiency

The GT STRUDL Computer Program was used in the design and analysis of a number of HVAC, piping and I&C supports for Seabrook prior to January 1984.

In performing an analysis check on a previously completed HVAC support designed with the GT STRUDL Program, an error was discovered in the section of the program that calculates frequencies using the Rayleigh Quotient Method.

Georgia Tech confirmed the error in all versions of the program prior to the 84.03 Release. The error had unknowingly been corrected in all subsequent releases including the 84.03 version.

8601240222 860115  
PDR ADOCK 05000443  
S PDR

10  
1E27

Analysis of Safety Implications

All support designs which used the Rayleigh Quotient Method were potentially affected by this item and required evaluation.

Vendor furnished safety-related equipment required evaluation for any design deficiencies.

Corrective Action

Initially, a sample of 25 computer runs potentially effected by the GT STRUDL error were reviewed. The result of this review indicated that none of the 25 support designs were impacted by this error.

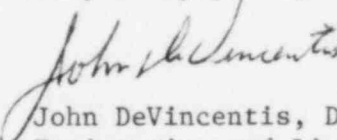
Subsequently, a generic evaluation of this problem for all potentially affected HVAC supports was performed. The result of this evaluation also indicated that none of the HVAC supports were impacted by the GT STRUDL error.

In addition, all piping and I&C supports potentially affected by this error were reviewed and found to be unaffected by the GT STRUDL error.

In reference to the potential impact on the work performed by equipment vendors, we have determined that none of the vendors used the subject computer program for equipment design.

Based on the above, we have concluded that this item is not a reportable 10CFR50.55(e) condition.

Very truly yours,



John DeVincentis, Director  
Engineering and Licensing

cc: Atomic Safety and Licensing Board Service List

Director, Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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

Robert G. Perlis  
Office of the Executive Legal Director  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Robert A. Backus, Esquire  
116 Lowell Street  
P.O. Box 516  
Manchester, NH 03105

Philip Ahrens, Esquire  
Assistant Attorney General  
Augusta, ME 04333

Mr. John B. Tanzer  
Designated Representative of  
the Town of Hampton  
5 Morningside Drive  
Hampton, NH 03842

Roberta C. Pevear  
Designated Representative of  
the Town of Hampton Falls  
Drinkwater Road  
Hampton Falls, NH 03844

Mrs. Sandra Gavutis  
Designated Representative of  
the Town of Kensington  
RFD 1  
East Kingston, NH 03827

Jo Ann Shotwell, Esquire  
Assistant Attorney General  
Environmental Protection Bureau  
Department of the Attorney General  
One Ashburton Place, 19th Floor  
Boston, MA 02108

Senator Gordon J. Humphrey  
U.S. Senate  
Washington, DC 20510  
(ATTN: Tom Burack)

Diana P. Randall  
70 Collins Street  
Seabrook, NH 03874

Donald E. Chick  
Town Manager  
Town of Exeter  
10 Front Street  
Exeter, NH 03833

Brentwood Board of Selectmen  
RED Dalton Road  
Brentwood, NH 03833

Richard E. Sullivan, Mayor  
City Hall  
Newburyport, MA 01950

Calvin A. Canney  
City Manager  
City Hall  
126 Daniel Street  
Portsmouth, NH 03801

Dana Bisbee, Esquire  
Assistant Attorney General  
Office of the Attorney General  
208 State House Annex  
Concord, NH 03301

Anne Verge, Chairperson  
Board of Selectmen  
Town Hall  
South Hampton, NH 03827

Patrick J. McKeon  
Selectmen's Office  
10 Central Road  
Rye, NH 03870

Carole F. Kagan, Esquire  
Atomic Safety and Licensing Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Mr. Angi Machiros  
Chairman of the Board of Selectmen  
Town of Newbury  
Newbury, MA 01950

Town Manager's Office  
Town Hall - Friend Street  
Amesbury, MA 01913

Senator Gordon J. Humphrey  
1 Pillsbury Street  
Concord, NH 03301  
(ATTN: Herb Boynton)