



June 13, 1986

Public Service of New Hampshire

SBN-1113
T.F. B7.1.2

NEW HAMPSHIRE YANKEE DIVISION

United States Nuclear Regulatory Commission
Washington, DC 20555

Attention: Mr. Vincent S. Noonan, Project Director
PWR Project Directorate No. 5

References: (a) Construction Permits CPPR-135 and CPPR-136, Docket
Nos. 50-443 and 50-444
(b) PSNH Letter (SBN-1017), dated April 24, 1986, "Fire
Protection Site Audit; Response to Open Items",
J. DeVincentis to V. S. Noonan

Subject: Structural Steel Protection From Fire

Dear Sir:

As a result of discussion with the Staff on June 12, 1986, the following additional information is provided to support our request for deviation from 10CFR50, Appendix R, III.G.a provided in Reference (b).

Professional Loss Control, Inc., (PLC) conducted a Seabrook Structural Steel Survivability Analysis as indicated in Reference (b). The methodology used to evaluate Seabrook's structural steel is the same as that used on Limerick Generating Station, Units 1 and 2, also done by PLC.

Using the results of the PLC analysis, a structural integrity review was conducted. The review assumed those elements of steel which could potentially be lost were lost, and the integrity of the remaining concrete slab and supporting steel framing was checked. The following assumptions were considered:

1. Dead load.
2. Snow load.
3. Equipment loads.
4. No seismic loads.

8606180088 860613
PDR ADDOCK 05000443
F PDR

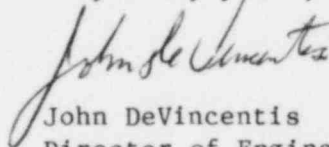
Boo1
110

5. Soil pressure, surcharge, compaction, and hydrostatic pressure.
6. Load factor for the above loads considered to be one.
7. Rebar yield stress (fy) assumed equal to 30,000 psi to allow for elevated temperatures due to fire.

Those steel elements which were required for structural integrity and were identified in the PLC analysis as potentially exposed to high temperatures (in excess of 1100°F) were fire proofed.

We trust this information is satisfactory and request the resolution of this item be reflected in the next supplement to Seabrook's SER.

Very truly yours,



John DeVincentis
Director of Engineering

cc: Atomic Safety and Licensing Board Service List

Diane Curran, Esquire
Harmon & Weiss
2001 S. Street, N.W.
Suite 430
Washington, D.C. 20009

Sherwin E. Turk, Esq.
Office of the Executive Legal Director
U.S. Nuclear Regulatory Commission
Tenth Floor
Washington, DC 20555

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

Philip Ahrens, Esquire
Assistant Attorney General
Department of The Attorney General
Statehouse Station #6
Augusta, ME 04333

Mrs. Sandra Gavutis
Chairman, Board of Selectmen
RFD 1 - Box 1154
Kennington, NH 03827

Carol S. Sneider, Esquire
Assistant Attorney General
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)

Richard A. Hampe, Esq.
Hampe and McNicholas
35 Pleasant Street
Concord, NH 03301

Thomas F. Powers, III
Town Manager
Town of Exeter
10 Front Street
Exeter, NH 03833

Brentwood Board of Selectmen
RFD Dalton Road
Brentwood, NH 03833

Peter J. Mathews, Mayor
City Hall
Newburyport, MA 01950

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

Stephen E. Merrill, Esquire
Attorney General
George Dana Bisbee, Esquire
Assistant Attorney General
Office of the Attorney General
25 Capitol Street
Concord, NH 03301-6397

Mr. J. P. Nadeau
Selectmen's Office
10 Central Road
Rye, NH 03870

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

Mr. William S. Lord
Board of Selectmen
Town Hall - Friend Street
Amesbury, MA 01913

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

H. Joseph Flynn, Esquire
Office of General Counsel
Federal Emergency Management Agency
500 C Street, SW
Washington, DC 20472

Paul McEachern, Esquire
Matthew T. Brock, Esquire
Shaines & McEachern
25 Maplewood Avenue
P.O. Box 360
Portsmouth, NH 03801

Gary W. Holmes, Esq.
Holmes & Ells
47 Winnacunnet Road
Hampton, NH 03842

Mr. Ed Thomas
FEMA Region I
442 John W. McCormack PO & Courthouse
Boston, MA 02109

Robert Carrigg
Town Office
Atlantic Avenue
North Hampton, NH 03862