



30 South 17th Street
Post Office Box 8223
Philadelphia, PA 19101

December 22, 1983

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

Dear Sir:

10CFR21 Report of a Defect Related to Public Service
Company of New Hampshire - Seabrook Station - Units 1 & 2

This is to inform you of a defect which has come to my attention related to the adequacy of the Service Water and Circulating Water Pump House structure for the Seabrook Station. While this defect will be reported by the Public Service Company of New Hampshire in accordance with 10CFR50.55(e), we are providing this 10CFR21 report to assure that the Commission has been adequately informed.

Details of our report are attached.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'H. G. Kreider', is written over the typed name.

FOR H. G. Kreider
Vice President - Power

Attachment

copy: Regional Director
USNRC - Region 1

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PDR ADOCK 05000443
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DECEMBER 22, 1983

NAME AND ADDRESS OF THE INDIVIDUAL OR INDIVIDUALS INFORMING THE COMMISSION:

H. G. Kreider, Vice President - Power
United Engineers & Constructors Inc.
30 South 17th Street
Philadelphia, Pa., 19101

IDENTIFICATION OF THE FACILITY, THE ACTIVITY, OR THE BASIC COMPONENT SUPPLIED FOR SUCH FACILITY OR SUCH ACTIVITY WITHIN THE UNITED STATES WHICH FAILS TO COMPLY OR CONTAINS A DEFECT:

Public Service Company of New Hampshire, Seabrook Station. Design of the Service Water and Circulating Water Pump House station.

IDENTIFICATION OF THE FIRM CONSTRUCTING THE FACILITY OR SUPPLYING THE BASIC COMPONENT WHICH FAILS TO COMPLY OR CONTAINS A DEFECT:

United Engineers & Constructors Inc.

NATURE OF THE DEFECT OR FAILURE TO COMPLY AND THE SAFETY HAZARD WHICH IS CREATED OR COULD BE CREATED BY SUCH DEFECT OR FAILURE TO COMPLY:

A "defect" exists in the structural design of the modifications which were provided for the Category I Service Water and Circulating Water Pump House. These modifications consisted of the installation of compression elements needed to provide lateral support to cell walls found to be overstressed due to differences in water levels of adjacent cells by the 10CFR21 report dated April 18, 1983.

This "defect" in the structural design of the modification is due to the fact that shrinkage effects were not properly considered in the design of the compression members. The failure to consider these effects would render the compression members ineffective in providing the needed lateral support for the cell walls of the structure.

THE DATE ON WHICH THE INFORMATION OF SUCH DEFECT OR FAILURE TO COMPLY WAS OBTAINED:

December 22, 1983

IN THE CASE OF A BASIC COMPONENT WHICH CONTAINS A DEFECT OR FAILS TO COMPLY, THE NUMBER AND LOCATION OF ALL SUCH COMPONENTS IN USE AT, SUPPLIED FOR, OR BEING SUPPLIED FOR ONE OR MORE FACILITIES OR ACTIVITIES SUBJECT TO THE REGULATIONS IN THIS PART:

This defect applies only to the Seabrook Station, Units 1 and 2.

THE CORRECTIVE ACTION WHICH HAS BEEN, IS BEING, OR WILL BE TAKEN: THE NAME OF THE INDIVIDUAL OR ORGANIZATION RESPONSIBLE FOR THE ACTION: AND THE LENGTH OF TIME THAT HAS BEEN OR WILL BE TAKEN TO COMPLETE THE ACTION:

Modifications to the compression members to properly account for shrinkage effects will be made as required. United Engineers & Constructors Inc. will be responsible for these modifications. The design of the modifications will be completed by February 16, 1984.

ANY ADVICE RELATED TO THE DEFECT OR FAILURE TO COMPLY ABOUT THE FACILITY, ACTIVITY OR BASIC COMPONENT THAT HAS BEEN, IS BEING, OR WILL BE GIVEN TO PURCHASERS OR LICENSEES:

Public Service Company of New Hampshire has reported the defect under the provisions of 10CFR50.55(e).