

# New Hampshire Yankee

Ted C. Feigenbaum  
President and  
Chief Executive Officer

NYN-91121  
July 30, 1991

Document Control Desk  
United States Nuclear Regulatory Commission  
Washington, DC 20555

- References:
- (a) Facility Operating License NPF-86, Docket No. 50-443
  - (b) NRC Bulletin No. 89-01, Supplement 2 dated June 28, 1991, "Failure of Westinghouse Steam Generator Tube Mechanical Plugs"
  - (c) Westinghouse Reports WCAP-12244 (proprietary version) and WCAP-12245 (non-proprietary version), "Steam Generator Tube Plug Integrity Summary Report," Addendum 2 to Revision 3, dated June, 1991
  - (d) NHY Letter NYN-89073 dated June 15, 1989, "Response to NRC Bulletin 89-01: Failure of Westinghouse Steam Generator Tube Mechanical Plugs," G.S. Thomas to USNRC

Subject: Response to NRC Bulletin 89-01, Supplement 2: Failure of Westinghouse Steam Generator Tube Mechanical Plugs

Gentlemen:

This letter provides information requested by NRC Bulletin 89-01, Supplement 2 regarding steam generator tube mechanical plugs supplied to Seabrook Station by Westinghouse Electric Corporation.

As initially reported in Reference (d), there are currently a total of twelve mechanical plugs installed in the tubes of the four steam generators at Seabrook Station Unit 1. These twelve mechanical plugs were fabricated from Alloy 600, Heat Number NX2387, a "group 2" heat as defined by the Bulletin, Supplement 2.

In response to NRC Bulletin 89-01, Supplement 2, NRC-requested Action No. 1., New Hampshire Yankee (NHY) has verified that the information contained in Table 2 of Reference (c) is correct with respect to Seabrook Station. We note that the value of EFPD Multiplication Factor used for Seabrook Station in Table 2 (0.90) is slightly higher than the actual capacity factor it represents; however, the calculation using the value 0.90 predicts a conservatively earlier "year to repair plugs."

Information from Table 2 of Reference (c) indicates that the most limiting mechanical plugs (those installed in the hot legs of the Seabrook Station steam generators) should be repaired or replaced by 1995. New Hampshire Yankee does not plan to repair or replace any of its currently-installed mechanical plugs at the first refueling outage which commenced on July 26, 1991. However, following completion of the first refueling outage, NHY will determine the remedial action to be taken by 1995 for the most limiting mechanical plugs. Currently-installed Westinghouse mechanical plugs, if removed, will be examined for indications of primary water stress corrosion cracking (PWSCC) on a sample basis. The

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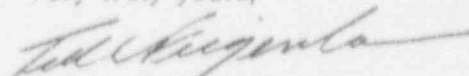
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results of these examinations will be retained as part of the steam generator records and the applicable information will be provided to Westinghouse.

NRC-requested Action No. 2.c) of NRC Bulletin 89-01, Supplement 2 regarding mechanical plugs fabricated from Alloy 600, Heat No. NX5222 is not applicable to Seabrook Station since all mechanical plugs installed in Seabrook Station Unit 1 steam generators were fabricated from Heat No. NX2387 material. The Westinghouse-recommended long term action plan specifies that Alloy 600 mechanical plugs be repaired or replaced with Alloy 690 plugs. New Hampshire Yankee currently plans to utilize Alloy 690 material for required replacement of mechanical plugs in the steam generators at Seabrook Station.

If you have any questions regarding this matter, please contact Mr. Geoffrey Kingston at (603) 474-9521, extension 3371.

Very truly yours,

  
Ted C. Feigenbaum

cc: Mr. Thomas T. Martin  
Regional Administrator  
United States Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

Mr. Gordon E. Edison, Sr. Project Manager  
Project Directorate I-3  
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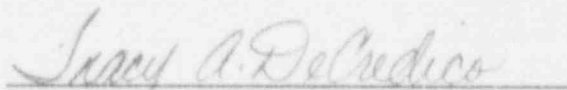
Mr. Noel Dudley  
NRC Senior Resident Inspector  
P.O. Box 1149  
Seabrook Station, NH 03874

STATE OF NEW HAMPSHIRE

Rockingham, ss.

July 30, 1991

Then personally appeared before me, the above-named Ted C. Feigenbaum, being duly sworn, did state that he is President & Chief Executive Officer of the New Hampshire Yankee Division of Public Service Company of New Hampshire, that he is duly authorized to execute and file the foregoing information in the name and on the behalf of New Hampshire Yankee Division of the Public Service Company and that the statements therein are true to the best of his knowledge and belief.



TRACY A. DeCREDICO, Notary Public  
My Commission Expires October 3, 1995