

# New Hampshire Yankee

Ted C. Feigenbaum  
Senior Vice President and  
Chief Operating Officer

NYN-90060

March 8, 1990

United States Nuclear Regulatory Commission  
Washington, DC 20555

Attention: Document Control Desk

- References:
- (a) Facility Operating License No. NPF-67, Docket No. 50-443
  - (b) NHY Letter NYN-90020 dated January 24, 1990, "Response to Allegations", T. C. Feigenbaum to USNRC
  - (c) USNRC Letter dated February 7, 1990, "NRC Inspection Report 50-443/90-80", W. T. Russell to E. A. Brown

Subject: Reactor Coolant Pump Support Leg Anchor Bolts

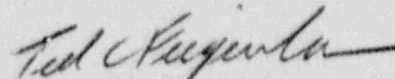
Gentlemen:

New Hampshire Yankee (NHY) addressed an allegation by the Employees Legal Project (ELP), regarding reactor coolant pump support bolts in Reference (b). In Enclosure 3 to that response, the evaluation provided for ELP Concern No. 22 provided an incorrect diameter for the anchor bolt holes. The corrected response is provided as a replacement page as Enclosure 1 to this letter. Additional information regarding the use of square plate washers for one of the standard washers is also provided in Enclosure 1.

Based upon preliminary information provided by NHY, the NRC addressed the ELP allegation in Reference (c), stating that the reactor coolant pump support leg anchor bolts are 48 inches long and 2 inches in diameter. Subsequent NHY evaluation and drawing verification has determined that the bolts are 58 inches long and 3 inches in diameter.

Should you have any questions regarding this matter, please contact Mr. Neal A. Pillsbury, Director of Quality Programs, at (603) 474-9521, extension 3341.

Very truly yours,

  
Ted C. Feigenbaum

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New Hampshire Yankee  
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Enclosure 1 to NYN-90060

Reactor Coolant Pump Support Leg Anchor Bolts

New Hampshire Yankee  
March 8, 1990

ELP CONCERN #22

CONCERN: The movement of the RCP column support legs that was accomplished earlier and as identified in NRC report 87-07. How were the legs moved. The embedment bolts for this installation were either welded or bolted to the base plate of the containment building. The bolts are approximately 6 feet long. The concrete has been poured around the bolts. How was the leg moved and then bolted down with the proper strength bolts? Were the embedded bolts cut? How were the legs moved 2 inches (per NRC report) or 5 inches (per concerned individual). The strength requirement by the design drawing for the embedded bolts is 115kpsi. If the bolts were cut, does the new installation meet this strength requirement? Were Hilti bolts installed? Do they have the necessary strength to support the RCP in the event of an earthquake? The pictures provided do not show any offsetting of the bolts from center.

RESPONSE: Support leg was moved in accordance with ECA 08/1557 A, B, and C. The design of the RC pump column base is shown on FP 50509. The base was engineered to accommodate field installation tolerances, the anchor bolt holes in the 3-inch thick base plate are 7 inches in diameter, 2-inch thick washer plates with 4-inch diameter holes were placed beneath and on top of the base plate around the anchor bolts. Leveling nuts, load nuts, jam nuts, and standard washers were then installed. A design change (ECA 01/2355D) allowed the use of square plate washers for one of the standard washers. Grout was placed beneath the base to complete the installation. The base was moved approximately 2 inches utilizing the built-in adjustability of the design. The original anchor bolts were utilized. The support carries only tension or compression oversize holes do not affect ability of base to perform its function.

CONCLUSION: The RCP's support structure modifications did not introduce a condition of potential overstress of existing cold leg piping beyond allowable design code limits.