PSNH PUBLIC SERVICE

SEABROOK STATION Engineering Office: 1671 Worcester Road Framingham, Massachusetts 01701 (617) - 872 - 8100

November 18, 1982 SBN - 376 T.F. B7.1.2

United States Nuclear Regulatory Commission Washington, D. C. 20555

Attention: Mr. George W. Knighton, Chief Licensing Branch 3 Division of Licensing

References:

- (a) Construction Permits CPPR-135 and CPPR-136 Docket Nos. 50-443 and 50-444
- (b) USNRC Letter, dated March 1, 1982, "Requests for Additional Information," F. J. Miraglia to W. C. Tallman
- (c) PSNH Letter, dated April 8, 1982, "Response to 460 Series RAIs; (Effluent Treatment Systems Branch)," J. DeVincentis to F. J. Miraglia
- (d) PSNH Letter, dated July 12, 1982, "Amendment 45 to March 30, 1973, Application to Construct and Operate Seabrook Station Unit 1 and Unit 2; Incorporation of Requests for Additional Information (RAIs)," W. P. Johnson to F. J. Miraglia

Subject:

Revised Response to RAI 460.16; (SRP Section 11.2.2, Effluent Treatment Systems Branch)

Dear Sir:

We have enclosed a revised response to the subject Request for Additional Information (RAI) which was forwarded in Reference (b).

The original response to this RAI was submitted in Reference (c) and subsequently incorporated into the FSAR [OL Application Amendment 45, Reference (d)].

The enclosed response will be incorporated into OL Application Amendment 48.

Very truly yours,

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YANKEE ATOMIC ELECTRIC COMPANY

/ J. DeVincentis Project Manager

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cc: Atomic Safety and Licensing Board Service List

## ASLB SERVICE LIST

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Jo Ann Shotwell, Esquire Assistant Attorney General Environmental Protection Bureau Department of the Attorney General One Ashburton Place, 19th Floor Boston, MA 02108 460.16 Provide justification for taking exception to Regulatory Guide 1.143 by designing the chemical drain tank and the chemical treatment tanks to Standard PS 15-69.

RESPONSE: Table 1 of Regulatory Guide 1.143 provides equipment code requirements for radioactive waste components. Note 2 to the table states that fiberglass-reinforced plastic tanks may be used in accordance with appropriate articles of Section 10 of the ASME Boiler and Pressure Vessel Code for applications at ambient temperature. The chemical drain tank and chemical drain treatment tanks are provided for collection of decontamination and chemistry laboratory chemical wastes. The chemistry composition of the collected fluids includes acids, chloroform, sodium hypochlorite, sodium hydroxide, sulfates, acetone, alcohols, and carbon tetrachloride. The aggressive corrosive effects of these substances warrants the use of fiberglass-reinforced plastic tanks and is the reason for this material selection.

> The coemical drain tank and chemical drain treatment tanks are not under the jurisdiction of Section 10 of the ASME Boiler and Pressure Vessel Code because the normal operating pressure is atmospheric and does not exceed 15 psig (see Article G-121 of ASME Section 10). However, the tanks are designed, fabricated and tested in accordance with Product Standard PS 15-69, developed cooperatively with the industry and published by the National Bureau of Standards under the Voluntary Product Standard Procedures of the U.S. Department of Commerce. (This standard was effective until withdrawn on January 20, 1982.) It includes requirements for material, mechanical properties, minimum wall thicknesses and testing. The methods used for testing of barcol hardness, flexural strength and flexural modulus conform to ASTM D2583-67 and D790-66 which are the required methods listed in article M-120 of ASME Section 10. Additionally, PS 15-69 requires conditioning for testing in accordance with ASTM D618-61, testing for glass content based on ASTM D2584-67T, and testing for tensile strength based on ASTM D638-68. The tank manufacturer performs tests on samples for compressive strength as recommended by the standard in accordance with ASTM D695-63T. The tank flanges and fittings are designed in accordance with ANSI B16.5 and ANSI B16.11.

Based on the above discussion, these tanks are considered to be appropriately designed, fabricated and tested for their application.