



Public Service of New Hampshire

SBN- 613
T.F.B7.1.2

January 6, 1984

Director of Nuclear Reactor Regulation
Attn: Mr. George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

References: (a) Construction Permits CPPR-135 and CPPR-136, Docket Nos.
50-443 and 50-444

Subject: Revision to RAI 430.81 (Power Systems Branch)

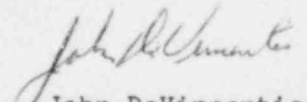
Dear Sir:

Attached for your use and information please find a revision to our
response to RAI 430.81.

This revision to RAI 430.81 will be included in a future FSAR amendment.

Very truly yours,

Yankee Atomic Electric Company


John DeVincentis
Project Manager

Attachment:

cc: Atomic Safety & Licensing Board Service List

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Discuss the precautionary measures that will be taken to assure the quality and reliability of the fuel oil for emergency diesel generator operation. Include the type of fuel oil, impurity and quality limitations as well as diesel index number or its equivalent, cloud point, entrained moisture, sulfur, particulates and other deleterious insoluble substances; procedure for testing newly delivered fuel, periodic sampling and testing of on-site fuel oil (including interval between tests), interval of time between periodic removal of condensate from fuel tanks and periodic system inspection. In your discussion include reference to industry (or other) standards which will be followed to assure a reliable fuel oil supply to the emergency generators.

RESPONSE

Fuel oil will be purchased to Federal Fuel Oil Specification VV-F-8006 (April 1975) as per Reg. Guide 1.137.

New fuel oil will be sampled in accordance with ASTM D4057-81 prior to addition to storage tanks and:

- (1) By verifying in accordance with the tests specified in ASTM D975-81 prior to addition to the storage tanks that the sample has:
 - (a) An API Gravity of within 0.3 degrees at 60°F or a specific gravity of within 0.0016 at 60/60°F, when compared to the supplier's certificate, or an absolute specific gravity at 60/60°F of greater than or equal to 0.83 but less than or equal to 0.89, or an API Gravity of greater than or equal to 27 degrees but less than or equal to 39 degrees,
 - (b) A kinematic viscosity at 40°C of greater than or equal to 1.9 centistokes, but less than or equal to 4.1 centistokes, if gravity was not determined by comparison with the supplier's certification,
 - (c) A flash point equal to or greater than 125°F, and
 - (d) A clear and bright appearance with proper color when tested in accordance with ASTM D4176-82.
- (2) By verifying within 30 days of obtaining the sample that the other properties specified in Table 1 of ASTM D975-81 are met when tested in accordance with ASTM D975-81 except that the analysis for sulfur may be performed in accordance with ASTM D1552-79 or ASTM D2622-82.

At least once every 31 days, fuel oil from the emergency diesel generator storage tanks will be sampled in accordance with ASTM D2276-78, and will be verified that total particulate contamination is less than 10 mg/liter when checked in accordance with ASTM D2276-78, Method A.

The diesel day tank will be sampled for water monthly, and daily when engine operating period exceeds one hour.

Reliability of diesel oil supply is discussed in the response to RAI 430.83.

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