



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)

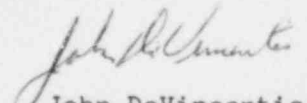
Dear Sir:

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

8401230343 840106  
PDR ADCK 05000443  
A PDR

*Boo*  
1/1

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.

William S. Jordan, III, Esquire  
Harmon & Weiss  
1725 I Street, N.W. Suite 506  
Washington, DC 20006

Roy P. Lessy, Jr., Esquire  
Office of the Executive Legal Director  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Robert A. Backus, Esquire  
116 Lowell Street  
P.O. Box 516  
Manchester, NH 03105

Philip Ahrens, Esquire  
Assistant Attorney General  
Department of the Attorney General  
Augusta, ME 04333

Mr. John B. Tanzer  
Designated Representative of  
the Town of Hampton  
5 Morningside Drive  
Hampton, NH 03842

Roberta C. Pevear  
Designated Representative of  
the Town of Hampton Falls  
Drinkwater Road  
Hampton Falls, NH 03844

Mrs. Sandra Gavutis  
Designated Representative of  
the Town of Kensington  
RFD 1  
East Kingston, NH 03827

Jo Ann Shotwell, Esquire  
Assistant Attorney General  
Environmental Protection Bureau  
Department of the Attorney General  
One Ashburton Place, 19th Floor  
Boston, MA 02108

Senator Gordon J. Humphrey  
U.S. Senate  
Washington, DC 20510  
(Attn: Tom Burack)

Diana P. Randall  
70 Collins Street  
SEabrook, NH 03874

Donald E. Chick  
Town Manager  
Town of Exeter  
10 Front Street  
Exeter, NH 03833

Brentwood Board of Selectmen  
RED Dalton Road  
Brentwood, New Hampshire 03833

Edward F. Meany  
Designated Representative of  
the Town of Rye  
155 Washington Road  
Rye, NH 03870

Calvin A. Canney  
City Manager  
City Hall  
126 Daniel Street  
Portsmouth, NH 03801

Dana Bisbee, Esquire  
Assistant Attorney General  
Office of the Attorney General  
208 State House Annex  
Concord, NH 03842

Anne Verge, Chairperson  
Board of Selectmen  
Town Hall  
South Hampton, NH 03842

Patrick J. McKeon  
Selectmen's Office  
10 Central Road  
Rye, NH 03870

Carole F. Kagan, Esq.  
Atomic Safety and Licensing Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. Angie Machiros  
Chairman of the Board of Selectmen  
Town of Newbury  
Newbury, MA 01950

Town Manager's Office  
Town Hall - Friend Street  
Amesbury, Ma. 01910

Senator Gordon J. Humphrey  
1 Pillsbury Street  
Concord, NH 03301  
(Attn: Herb Boynton)

Richard E. Sullivan, Mayor  
City Hall  
Newburyport, MA 01950