JUL 2 1976

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Docket No. 50-29

Yankee Atomic Electric Company
ATTN: Mr. Robert H. Groce
Licensing Engineer
20 Turnpike Road
Westboro, Massachusetts 01581

Gentlemen:

We have completed our preliminary review of your June 2, 1976 submittal which contains information for the purpose of evaluating Yankee-Rowe's compliance with Appendix I to 10 CFR Part 50. We find that we need the additional information identified in the enclosure to this letter to continue our review. We request that you provide the additional information within 90 days of receipt of this letter.

We acknowledge your commitment that you will provide the information concerning the radiological dose analyses by August 6, 1976.

Sincerely,

Original signed by

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

OFFICE	ORB#1	ORB#3	ORB#1			
SURNAME	ABurger:dc	TVerdery	ASchwencer			
DATE	7/2/76	7/2/76	7/2/76			

Form AEC-318 (Rev. 9-53) AECM 0240 ☆ U. S. GOVERNMENT PRINTING OFFICE 1971 - 455-496

8011040751

cc: Mr. Donald G. Allen, President
Yankee Atomic Electric Company
20 Turnpike Road
Westboro, Massachusetts 01581

Greenfield Public Library
402 Main Street
Greenfield, Massachusetts 01581

REQUEST FOR ADDITIONAL INFORMATION

YANKEE NUCLEAR POWER STATION (YANKEE-ROWE)

DOCKET NO. 50-29

1. Provide the description of the Turbine Building Exhaust System, including flow rate, velocity, relative temperature difference between exhaust effluent and ambient air, and size and shape of the flow orifice.

2. Indicate if each effluent release point is equipped with diffusers or spreaders.

3.* Describe in greater detail the straight-line airflow model used in the calculations, including all equations used. Discuss the validity and accuracy of the model as it was applied relative to this site and region.

4. Provide the site specific recirculation correction factors which you are developing, including a detailed description of the methodology used. Substantiate their applicability to the site region.

5. Discuss the representativeness of the meteorological data used relative to the types of radioactive releases analyzed.

6. Provide the rationale for assuming a mixed release mode for the primary vent stack releases.

7. Provide available wind speed and direction data from the 140 ft. level of the meteorological tower for the October 1, 1971-September 31, 1972, period if available.

8. The size of the first wind speed class (0-3 mph) in Table QII.6-1, is too large to obtain reliable X/Q estimates. The first wind speed class in Table QII.6-1 needs to be amended to reflect only calm conditions (defined as wind speeds below the starting speed of the vane or anemometer whichever is greater). The second wind speed class would then entail the starting speed to 3 mph, etc. See Regulatory Guide 1.111 for recommendations on the handling and distribution of calms.

*Refers to question in enclosure 2 to our letter of February 19, 1976.

9. The information provided concerning the representativeness of the onsite data for the October 1, 1971-September 31, 1972 period with respect to onsite and near site atmospheric transport and diffusion conditions and expected long term conditions at and near the site is inadequate. Provide sufficient meteorological data from representative offsite location(s) for a minimum 10-year data period and for the concurrent period to onsite data collection. This presentation should include at least the following information on a monthly basis:

   (1) Wind speed and wind direction (wind roses)

   (2) Atmospheric stability

   (3) Precipitation

10. Provide a schedule for upgrading the onsite meteorological program to meet the recommendations of Regulatory Guide 1.23 as you indicated on page II-3. Include a detailed description of the proposed system.