



PSEG Public Service
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Robert L. Mittl General Manager
Nuclear Assurance and Regulation

March 30, 1984

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Bethesda, MD 20014

Attention: Mr. Albert Schwencer, Chief
Licensing Branch 2
Division of Licensing

Gentlemen:

RESPONSE TO NRC QUESTIONS
HOPE CREEK EMERGENCY PLAN METEOROLOGY
HOPE CREEK GENERATING STATION
DOCKET NO. 50-354

The attached information is provided in response to your request for additional information dated February 9, 1984, regarding emergency plan meteorology. This response addresses the four (4) items identified in that letter.

Correspondence transmitted to the NRC under a separate docket is being incorporated by reference per 10 CFR 50, Part 32 in response to Items 2 and 3. This information was submitted to the NRC pursuant to the Salem Nuclear Generating Station Unit No. 2 (Docket 50-311) Operating Licensing requirements, Item 24.d.ii and 24.d.iii (letter dated May 20, 1981). A letter to Frank J. Miraglia from R. L. Mittl dated July 30, 1981, responded to Item 24.d.ii. A letter to Frank J. Miraglia from R. L. Mittl dated June 30, 1981, responded to Item 24.d.iii.

The Emergency Plan will be amended to incorporate the responses to Items 1 and 4.

Should you have any questions in this regard, do not hesitate to contact us.

Very truly yours,

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The Energy People

Director of
Nuclear Reactor Regulation 2

3/30/84

Attachment - (1) Response to Emergency Plan Meteorology
Questions dated February 9, 1984

C D. H. Wagner
USNRC Licensing Project Manager (w/attach.)

Mr. W. H. Bateman
USNRC Senior Resident Inspector (w/attach.)

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RESPONSES TO EMERGENCY PLAN
QUESTIONS DATED FEBRUARY 9, 1984

Question No. 1

A complete description of the back-up meteorological system at the local oil refinery, in the event the applicant uses meteorological data from this source.

Response

A decision was made by Public Service after discussion with the staff of the indicated oil refinery that it would be impractical for Public Service to use this data as a back-up source. Back-up meteorological data is provided by a back-up tower located on site approximately 500 ft. south of the primary meteorological monitoring tower. Back-up meteorological data is provided by wind speed and wind direction sensors mounted on a ten meter telephone pole. In addition to the 15 minute averaged wind speed and wind direction, a computed sigma theta value is provided. The primary, as well as the back-up meteorological information will be available in the Hope Creek Main Control Room, Hope Creek TSC and the EOF. The Hope Creek Emergency Plan will be amended to discuss onsite back-up meteorological data. Additional back-up data is available from the Wilmington, Delaware NOAA Weather Station.

Question No. 2

The bases for determining the representativeness of the back-up source at the Wilmington, Delaware NOAA Weather Station.

Response

The emergency plan for Hope Creek provides for meteorological data to be supplied from the National Weather Station located at the Wilmington Airport, 15 miles north-northwest of the site. A complete discussion of the representativeness of this back-up source was presented to the NRC in a letter to Frank J. Miraglia from R. L. Mittl dated June 30, 1981, Salem Nuclear Generating Station Unit 2, Docket No. 50-311. This information is incorporated by reference. Additional discussion of the representativeness of the Wilmington data is presented in Section 2.3 of the FSAR.

Question No. 3

Sufficient description of the atmospheric models to be used such that the staff can determine whether PSE&G is progressing toward an acceptable use of meteorological information in emergency response.

Response

The Artificial Island Meteorological Monitoring System has been upgraded with a digital, remote access computer system. The functional description of the upgraded Meteorological Monitoring System was transmitted to the NRC in a letter to Frank J. Miraglia from R. L. Mittl dated July 30, 1981, Salem Nuclear Generating Station Unit 2, Docket No. 50-311. This information is incorporated by reference. The system described in this functional system has been installed and is in the process of being made available for emergency planning purposes. The system is designated as the Artificial Island Meteorological Monitoring System and will serve Hope Creek as well.

The Hope Creek Radiation Monitoring System (Central Radiation Processor - CRP) provides meteorological data output. The Hope Creek Radiation Monitoring System provides for route radiation dose assessment. A system enhancement to include emergency dose assessment is underway and a description will be provided by December 1984. The Hope Creek Radiation Monitoring System design provides 15 minute average meteorological data for wind speed, wind direction, delta temperature, and sigma theta.

Question No. 4

The emergency plan should identify the FSAR, Section 2.3.3, as a cross reference for a complete description of the meteorological system.

Response

The Hope Creek Emergency Plan will be amended to include this reference to the Hope Creek FSAR.

RFY:sal
3/9/84