

January 7, 1983

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

DOCKETED
USNRC

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

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In the Matter of)
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)
PUBLIC SERVICE COMPANY OF)
NEW HAMPSHIRE, et al.)
)
(Seabrook Station, Units 1 and 2))
)
)
_____)

Docket Nos. 50-443
50-444

OFFICE OF SECRETARY
REGULATORY & SERVICE
BRANCH

NECNP SECOND SET OF INTERROGATORIES AND
REQUESTS FOR DOCUMENTS TO APPLICANTS ON
CONTENTIONS I.D.1., I.D.4., I.F., I.I.,
I.L., and II.B.

INSTRUCTIONS FOR USE

The following interrogatories are to be answered in writing and under oath by an employee, representative or agent of the Applicants with personal knowledge of the facts or information requested in each interrogatory.

The following definitions shall apply to these interrogatories:

1. "Document" shall mean any written or graphic matter of Communication, however produced or reproduced, and is intended to be comprehensive and include without limitation any and all correspondence, letters, telegrams, agreements, notes, contracts, instructions, reports, demands, memoranda, data, schedules, notices, work papers, recordings, whether electronic or by other means, computer data, computer print-outs, photographs, microfilm, microfiche, charts, analyses, intra-corporate or intra-office communications, notebooks, diaries, sketches, diagrams, forms, manuals, brochures, lists, publications, drafts, telephone minutes, minutes of

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meetings, statements, calendars, journals, orders, confirmations and all other written or graphic materials of any nature whatsoever.

2. "Identify" shall mean with respect to any document, to state the following respecting the document: its title, its date, the author of the document, the person to whom the document was sent, all persons who received or reviewed the document, the substance and nature of the document, and the present custodian of the document and of any and all copies of the document.

3. "Identify" with respect to any action or conduct shall mean state the following regarding any such action or conduct: the person or persons proposing and taking such action; the date such action was proposed and/or taken; all persons with knowledge or information about such action; the purpose or proposed effect of such action; any document recording or documenting such action.

4. "Describe" with respect to any action or matter shall mean state the following regarding such action or matter: the substance or nature of such action or matter; the persons participating in or having knowledge of such action or matter; the current and past business positions and addresses of such persons; the existence and location of any and all documents relating to such action or matter.

I.D.1. Testing of Reactor Vessel Welds

1. Identify PSNH's contractor for the preparation of Applicants' "Reactor Vessel Examination Plan."

2. To what degree is Applicants' "Reactor Vessel Examination Plan" completed and when will it be submitted to the NRC?

3. Please provide access to any drafts of the "Reactor Vessel Examination Plan."

I.D.2. Testing of Protection Systems and Actuation Devices

4. Please complete the last sentence in Applicants' answer to NECNP Interrogatory I.D.2-8.

5. The answer to NECNP Interrogatory I.D.2-1 is incomplete. FSAR at 7.1.2.5 does not refer to the specific means by which Applicants determined that the probability that protection systems will fail without testing the equipment is acceptably low. Describe all quantitative calculations of probability and identify in detail the parameters of all qualitative judgments on probability. Provide access to all documents relied upon in reaching the judgments which are summarized in the FSAR.

I.D.4 Periodic Testing of Electric Power and Protection Systems

6. Applicants' answer to NECNP Interrogatory I.D.4-16 is not responsive. Chapter 7 of the FSAR, Section 7.2, discusses the Reactor Trip system and does not discuss in detail redundancy within the safety systems and the design criteria for the systems. Please describe how, if at all, there is sufficient redundancy within each safety system to provide redundancy even when degraded by a single random failure.

7. Identify and describe any tests or studies at Seabrook on the interaction of safety functions and control functions.

8. Identify and describe Applicants' program for periodic testing of diesel generators used for emergency electric power.

9. Have Applicants done any probabalistic studies on the importance to safety of diesel generators? If so, please identify them and describe their results.

10. Have Applicants performed any analyses of the reliability of diesel generators at Seabrook? If so, please describe the results and identify and provide access to all relevant documents.

11. Have Applicants performed any analyses of the reliability of diesel generators at Seabrook as it relates to the method and frequency of testing? If so, please describe the results and identify and provide access to all relevant documents.

12. Do Applicants meet all the requirements of IEEE#338-1977? If the answer to this question is no, please explain the discrepancy between your answer and the Staff's answer to Interrogatory I.D.4.-1.

I.F. Diesel Generator Qualification

13. Do Applicants comply with IEEE 323-1974 in every respect?

a) Identify any and all aspects of noncompliance.

b) For each instance of noncompliance, identify any alternative means by which Applicants intend to comply with

the requirements of GDC 17.

14. Describe the differences between IEEE 323-1974 and IEEE 387-1977.

a) Do Applicants believe that compliance with IEEE 387-1977 provides an equivalent assurance of safety as compliance with IEEE 323-1974? State the reasons for your answer.

15. In the answer to NECNP Interrogatories I.F.-1 and I.F.-7, Applicants state that "The Seabrook Station meets the requirements of IEEE 323-1974." Does the qualification of diesel generators in particular meet the requirements of IEEE 323-1974?

I.I. Inadequate Provision of Achieving Cold Shutdown

16. Applicants' answer to NECNP Interrogatory I.I-8 was not responsive. NECNP asked Applicants to consider a situation in which the single safety grade path to cold shutdown which Applicants plan to identify cannot be used. NECNP's interrogatory is consistent with NRC regulations, which require Applicants to consider a single failure of safety grade components to determine adequate accident response capability.

17. Applicants' answer to NECNP Interrogatory I.I-23 was not responsive. Applicants state that they comply with NUREG-0588. The question put to Applicants, however, was whether they have complied with all the provisions of IE Bullentin No. 79-01B, Rev.3. Please answer the question.

18. In answering NECNP Interrogatory I.B.1-16, the Staff states that the safety related steam generator power operated atmospheric relief valves are used to vent vaporized secondary coolant. This action discharges secondary fluid directly to the atmosphere. If steam generator tubes are leaking at this time, either due to a deteriorated condition prior to the accident or leakage developed during the accident, primary coolant containing radioactivity has a direct path to the atmosphere. Does the Seabrook design have any means to detect the discharge of such radioactivity and an appropriate method to isolate the correct steam generator?

I.L. PORV Flow Detection Monitoring System

19. Identify the location and function of all power-operated relief valves in the reactor coolant pressure boundary, including valves that provide isolation for the system.

20. In answer to NECNP Interrogatory I.L-5, Applicants stated that acoustic accelerometers are not used to detect PORV flow. In light of that statement, please answer the following questions:

a) Explain the discrepancy between Applicants' answer and the FSAR at Table 1.3-2, sheet 4 and §5.2.2.8, which state that acoustic accelerometers are used.

b) Explain the reasons for the change.

c) Identify and provide access to any documents which reflect the change from acoustic accelerometers to other flow detection devices.

d) Describe in detail the new flow detection devices.

- e) Are these devices environmentally qualified?

II.B. Quality Assurance for Operations

21. Please list those individuals responsible for the implementation of the QA program at Seabrook.

a) Provide the qualifications of each individual for implementation of the QA program.

b) Describe the previous experience of each individual with former construction projects of PSNH and others.

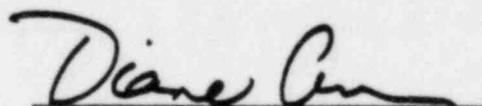
22. Please identify and provide access to:

a) Applicants' Quality Assurance Program for operations.

b) all procedures for implementation of Applicants' Quality Assurance Program for Operations.

c) Any and all programs for the review of Applicants' Quality Assurance Program for Operations.

Respectfully Submitted


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CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing NECNP THIRD SET OF INTERROGATORIES AND REQUESTS FOR DOCUMENTS TO APPLICANTS ON CONTENTIONS I.A.2., I.B.1., IB.,2., and I.C., NECNP SECOND SET OF INTERROGATORIES AND REQUESTS FOR DOCUMENTS TO APPLICANTS ON CONTENTIONS I.D.1., I.D.4., I.F., I.I., I.L., AND II.B., AND NECNP SECOND SET OF INTERROGATORIES AND REQUESTS FOR DOCUMENTS TO NRC STAFF ON CONTENTIONS I.A.2., I.B.1., I.C., I.D.2., I.F., I.I., AND I.M., have been mailed this 29th day of October, 1982, first class, postage paid, to the following:

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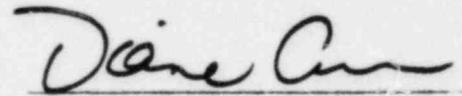
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