

Docket No.: 50-443

JUN 20 1986

Mr. Robert J. Harrison  
President and Chief Executive Officer  
Public Service Company of New Hampshire  
Post Office Box 330  
Manchester, New Hampshire 03105

Dear Mr. Harrison:

SUBJECT: DRAFT LICENSE FOR SEABROOK STATION, UNIT 1

Enclosure 1 is a draft low power license for Seabrook Station, Unit 1. Please review this draft license and provide your written comments by June 24, 1986. Enclosure 2 is a list of items which have not been resolved to date. If these items cannot be resolved prior to license issuance, they may be included as conditions in the low power license. Therefore, your written comments should also address these unresolved items. If you have any questions regarding this, contact the NRC Project Manager, Victor Nerses, at (301) 492-8535.

Sincerely,

Thomas M. Novak, Acting Director  
Division of PWR Licensing-A  
Office of Nuclear Reactor Regulation

Enclosures: As stated

cc: See next page

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Thomas M. Novak, Assistant Director  
Division of PWR Licensing-A

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TMNovak  
6/ /86



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

Docket No.: 50-443

JUN 26 1986

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Public Service Company of New Hampshire  
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Sincerely,

A handwritten signature in cursive script, appearing to read "Tom Novak".

Thomas M. Novak, Acting Director  
Division of PWR Licensing-A  
Office of Nuclear Reactor Regulation

Enclosures: As stated

cc: See next page



UNITED STATES  
 NUCLEAR REGULATORY COMMISSION  
 WASHINGTON, D. C. 20555

**DRAFT**

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE, ET AL.\*

DOCKET NO. 50-443

SEABROOK STATION, UNIT NO. 1

FACILITY OPERATING LICENSE

License No. NPF-56

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for license filed by Public Service Company of New Hampshire, as agent and representative of 12 utilities listed below and hereafter referred to as licensees, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I, and all required notifications to other agencies or bodies have been duly made;
  - B. Construction of the Seabrook Station, Unit No. 1 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-135 and the application, as amended, the provisions of the Act, and the regulations of the Commission;
  - C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission, (except as exempted from compliance in Section 2.D below);
  - D. There is reasonable assurance: (i) that the activities authorized by this operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I, (except as exempted from compliance in Section 2D below):

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\*Public Service Company of New Hampshire is authorized to act as agent for the: Canal Electric Company, Central Maine Power Company, Central Vermont Public Service Corporation, Connecticut Light and Power Company, Fitchburg Gas & Light Company, Bangor Hydro-Electric Company, Hudson Light & Power Company, Maine Public Service Corporation, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, New Hampshire Electric Cooperative, Inc., Public Service Company of New Hampshire, Taunton Municipal Lighting Plant, the United Illuminating Company, and Vermont Electric Generation and Transmission Cooperative, Inc., and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

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- E. Public Service Company of New Hampshire is technically qualified to engage in the activities authorized by this license in accordance with the Commission's regulations set forth in 10 CFR Chapter I;
  - F. The licensees have satisfied the applicable provisions of 10 CFR Part 140 "Financial Protection Requirements and Indemnity Agreements" of the Commission's regulations;
  - G. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public;
  - H. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Facility Operating License No. NPF-56, subject to the conditions for protection of the environment set forth in the Environmental Protection Plan attached as Appendix B, is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and
  - I. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70.
2. Based on the foregoing findings regarding this facility, Facility Operating License No. NPF-56 is hereby issued to Public Service Company of New Hampshire et al. (the licensees) to read as follows:
- A. This license applies to the Seabrook Station, Unit 1, a pressurized water nuclear reactor and associated equipment (the facility), owned by the licensees. The facility is located in Seabrook Township, Rockingham County, New Hampshire on the southeastern coast of the State of New Hampshire and is described in the licensees' "Final Safety Analysis Report", as supplemented and amended, and in the licensees' Environmental Report, as supplemented and amended.
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
    - (1) Public Service Company of New Hampshire (PSNH) pursuant to Section 103 of the Act and 10 CFR Part 50, to possess, use and operate the facility at the designated location in Rockingham County, New Hampshire in accordance with the procedures and limitations set forth in this license;
    - (2) The licensees, to possess the facility at the designated location in Rockingham County, New Hampshire in accordance with the procedures and limitations set forth in this license;
    - (3) PSNH, pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;

- (4) PSNH, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess, and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
  - (5) PSNH, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess, and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and
  - (6) PSNH, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operations of the facility.
- C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 10 CFR Chapter I and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

Public Service Company of New Hampshire is authorized to operate the facility at reactor core power levels not in excess of 3411 megawatts thermal (100% rated power) in accordance with the conditions specified herein. Pending Commission approval, this license is restricted to power levels not to exceed 5 percent of rated power (170 megawatts thermal). The items identified in Attachment 1 to this license shall be completed as specified. Attachment 1 is hereby incorporated into this license.

(2) Technical Specification and Environmental Protection Plan

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. Public Service Company of New Hampshire shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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- (3) Inservice Inspection Program (Section 5.2.4, 6.6.1, SER, SSER 3, SSER 4 SSER 5)\*

PSNH shall submit the inservice inspection program which conforms to the ASME code in effect 12 months prior to the date of this license, in accordance with 50.55a(g)(4), for NRC staff review and approval within six months from the date of this license.

- (4) Fire Protection (Section 9.5.1, SER, SSER 4 and SSER 5)

PSNH shall implement and maintain in effect all provisions of the approved fire protection program as described in the Final Safety Analysis Report, the Fire Protection Program report, and the Fire Protection of Safe Shutdown Capability report for the facility, as supplemented and amended, and as approved in the Safety Evaluation Report, dated March 1983 and Supplement 4, dated May 1986 and Supplement 5, dated June 1986, subject to the following provision:

PSNH may make changes to the approved fire protection program without prior approval of the Commission, only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

- (5) Operating Staff Experience Requirements (Section 13.1.2.2, SSER 4)

Seabrook shall have a licensed senior operator on each shift who has had at least 6 months of hot operating experience on a same type plant, including at least 6 weeks at power levels greater than 20 percent of full power, and who has had start-up and shutdown experience.

- (6) Emergency preparedness (Section 13.3, SER, SSER 4)

In the event that the NRC finds that the lack of progress in completion of the procedures in the Federal Emergency Agency's final rule, 44 CFR Part 350, is an indication that a major substantive problem exists in achieving or maintaining an adequate state of emergency preparedness, the provisions of 10 CFR Section 50.54 (s)(2) will apply.

- (7) Initial Test Program (Section 14, SER)

Any changes to the Initial Test Program described in Section 14 of the FSAR made in accordance with the provisions of 10 CFR 50.59 shall be reported in accordance with 50.59(b) within one month of such change.

\* The parenthetical notation following the title of many license conditions denotes the section of the Safety Evaluation Report and/or its supplements wherein the license condition is discussed.

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- (8) Salem ATWSEvent, Generic Letter 83-28 (Section 15.8, SER, SSER 5)

PSNH shall submit response to and implement the requirements of Generic Letter 83-28 on a schedule which is consistent with that given in its letter dated .

- (9) Safety Parameter Display System (Section 18, SER, SSER 4, SSER 5)

Prior to restart following the first refueling outage, PSNH shall have operational a Safety Parameter Display System (SPDS) as described in PSNH's submittals dated January 6, 1986 and April 2, 1986, that shall include the following modifications:

1. Continuous display of the top level critical safety function summary at the assigned SPDS control room location,
2. Addition of, or satisfactory justification for, not adding RHR flow and hydrogen concentration parameters to appropriate SPDS screens,
3. Addition of a containment isolation status screen on SPDS, or improvement to the current containment isolation display to be satisfactorily recognizable from the assigned SPDS location in the control room,
4. Addition of a radiation monitoring screen to display at least steam generator (or steam line) and stack radiation,
5. Improvement of the Heat Sink screen for consistency in labeling, and the Subcriticality screen for mode dependency so as not to mislead operators, and
6. Addition of approved isolation devices between the Reactor Vessel Level Instrumentation System (RVLIS) and SPDS.

- D. PSNH is exempted from the Section III.D.2(b)(ii) containment airlock testing requirements of Appendix J to 10 CFR Part 50, due to the special circumstance described in Section 6.2.6 of SER Supplement 5 authorized by 10 CFR 50.12(a)(2)(iii). This exemption is authorized by law, will not present an undue risk to the public health and safety and is consistent with the common defense and security. The exemption is hereby granted pursuant to 10 CFR 50.12. With the granting of this exemption, the facility will operate, to the extent authorized herein, in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission.



In addition, an exemption was previously granted pursuant to 10 CFR 50.12. A partial exemption from those portions of General Design Criteria 4 of Appendix A to 10 CFR Part 50 which require protection of structures, systems and components important to safety against dynamic effects associated with postulated reactor coolant system pipe breaks was granted on November 22, 1985, for a period ending with the completion of the second refueling outage for Seabrook Station, Unit 1 or the adoption of the proposed rulemaking for modification of GDC-4 whichever occurs first. Effective May 12, 1986, GDC-4 has been modified to exclude from the design basis the protection of structures, systems and components against dynamic effects associated with postulated pipe ruptures of primary coolant loop piping in PWRs when analyses demonstrate the probability of rupture of such piping to be extremely low under design basis conditions (51 FR 12502 April 11, 1986).

- E. Public Service Company of New Hampshire shall fully implement and maintain in effect all provisions of the physical security, guard training and qualification, and safeguards contingency plans, previously approved by the Commission and all amendments and revisions made pursuant to the authority of 10 CFR 50.90 and 10 CFR 73.21, are entitled: "Seabrook Station Physical Security Plan", with revisions submitted through March 21, 1986, "Seabrook Station Security Training and Qualification Plans", with revisions submitted through August 31, 1982, and "Seabrook Station Safeguards Contingency Plan", with revisions submitted through November 30, 1981.
- F. Except as otherwise provided in the Technical Specification or Environmental Protection Plan, Public Service Company of New Hampshire shall report any violations of the requirements contained in Section 2.C of this license in the following manner: initial notification shall be made within 24 hours to the NRC Operations Center via the Emergency Notification System with written followup within thirty days in accordance with the procedures described in 10 CFR 50.73(b), (c) and (e).
- G. The licensees shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.

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H. This license is effective as of the date of issuance and shall expire at Midnight on \_\_\_\_\_, 2026.

FOR THE NUCLEAR REGULATORY COMMISSION

Harold R. Denton, Director  
Office of Nuclear Reactor Regulation

**Attachments/Appendices:**

1. Attachment 1 - Work Items to be Completed
2. Appendix A - Technical Specifications (NUREG-1207)
3. Appendix B - Environmental Protection Plan

Date of Issuance:

# DRAFT

1. Radiation Data Management System - Qualified non-fuse dependent isolation devices be installed and operational (SSER5-7.5.2.2).
2. Fire Protection - Applicant must provide an analysis which justifies the lack of any fire suppression system for the charcoal adsorbers (SSER 5-9.5.1.4).
3. Solid Waste Management System - Applicant shall submit an acceptable description of the spill control methods of the cement solidification system (SSER 5- 11.4.2).
4. TMI Action Plan Item II.F.1, Accident Monitoring Instrumentation - Demonstrate that the iodine/particulate sampling system is operable and will perform its intended function (SSER 5-11.5.2).
5. Leakage Reduction Measurement Program - The applicant shall submit the result of leak note measurements sufficient to show that its leakage reduction program has been successfully implemented (SSER 5 - 15.9.15).

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- 7 -

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PWR #5 M Rushbrook / /86	PWR#5 VNerses / /86	P&RAS WLambe / /86	SP IDinitz / /86	SP JSaltzman / /86	OELD BVogler / /86
OELD STurk / /86	OELD JScinto / /86	PD PWR5 VSNoonan / /86	DD/PWR-A TMNovak / /86	D/PWR-A HThompson / /86	D/NRR HDenton / /86