



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

OCT 17 1986

Docket No.: 50-443

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: ISSUANCE OF FACILITY OPERATING LICENSE NPF-56 - SEABROOK STATION,
UNIT NO. 1

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The U. S. Nuclear Regulatory Commission (NRC) has issued the enclosed Facility Operating License NPF-56, together with the Technical Specifications and the Environmental Protection Plan for the Seabrook Station, Unit No. 1. License No. NPF-56 authorizes fuel loading and precriticality testing of the Seabrook Station, Unit 1.

Enclosed is a copy of a related notice, the original of which has been forwarded to the Office of the Federal Register for publication.

Eighteen signed copies of Amendment No. 1 to Indemnity Agreement No. B-106 which covers the activities authorized under License No. NPF-56 are also enclosed. Please sign all copies and return one to this office.

Sincerely,

for George Jew

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

Enclosures:

1. Facility Operating License No. NPF-56,
2. Federal Register Notice
3. Amendment No. 1 to Indemnity Agreement No. B-106
4. Assessment of the Effects of License Duration on Matters Discussed in the FES

cc w/enclosures: See next page

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Mr. Robert J. Harrison
Public Service Company of New Hampshire

Seabrook Nuclear Power Station

cc:

Thomas Dignan, Esq.
John A. Ritscher, Esq.
Ropes and Gray
225 Franklin Street
Boston, Massachusetts 02110

E. Tupper Kinder, Esq.
G. Dana Bisbee, Esq.
Assistant Attorney General
Office of Attorney General
208 State Hosue Annex
Concord, New Hampshire 03301

Mr. Bruce B. Beckley, Project Manager
Public Service Company of New Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

Resident Inspector
Seabrook Nuclear Power Station
c/o US Nuclear Regulatory Commission
Post Office Box 700
Seabrook, New Hampshire 03874

Dr. Mauray Tye, President
Sun Valley Association
209 Summer Street
Haverhill, Massachusetts 01839

Mr. John DeVincentis, Director
Engineering and Licensing
Yankee Atomic Electric Company
1671 Worchester Road
Framingham, Massachusetts 01701

Robert A. Backus, Esq.
O'Neil, Backus and Spielman
116 Lowell Street
Manchester, New Hampshire 03105

Mr. A. M. Ebner, Project Manager
United Engineers & Constructors
30 South 17th Street
Post Office Box 8223
Philadelphia, Pennsylvania 19101

William S. Jordan, III
Diane Curran
Harmon, Weiss & Jordan
20001 S Street, NW
Suite 430
Washington, D.C. 20009

Mr. Philip Ahrens, Esq.
Assistant Attorney General
State House, Station #6
Augusta, Maine 04333

Jo Ann Shotwell, Esq.
Office of the Assistant Attorney General
Environmental Protection Division
One Ashburton Place
Boston, Massachusetts 02108

Mr. Warren Hall
Public Service Company of
New Hampshire
Post Office Box 330
Seabrook, New Hampshire 03874

D. Pierre G. Cameron, Jr., Esq.
General Counsel
Public Service Company of New Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

Seacoast Anti-Pollution League
Ms. Jane Doughty
5 Market Street
Portsmouth, New Hampshire 03801

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Mr. Diana P. Randall
70 Collins Street
Seabrook, New Hampshire 03874

Richard Hampe, Esq.
New Hampshire Civil Defense Agency
107 Pleasant Street
Concord, New Hampshire 03301

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Public Service Company of
New Hampshire

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Seabrook Nuclear Power Station

cc:

Mr. Calvin A. Canney, City Manager
City Hall
126 Daniel Street
Portsmouth, New Hampshire 03801

Ms. Letty Hett
Town of Brentwood
RFD Dalton Road
Brentwood, New Hampshire 03833

Ms. Roberta C. Pevear
Town of Hampton Falls, New Hampshire
Drinkwater Road
Hampton Falls, New Hampshire 03844

Ms. Sandra Gavutis
Town of Kensington, New Hampshire
RDF 1
East Kingston, New Hampshire 03827

Chairman, Board of Selectmen
RFD 2
South Hampton, New Hampshire 03827

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

Ms. Cashman, Chairman
Board of Selectmen
Town of Amesbury
Town Hall
Amesbury, Massachusetts 01913

Honorable Peter J. Matthews
Mayor, City of Newburyport
Office of the Mayor
City Hall
Newburyport, Massachusetts 01950

Mr. Donald E. Chick, Town Manager
Town of Exeter
10 Front Street
Exeter, New Hampshire 03823

Clamshell Alliance
P. O. Box 877
Hampton, New Hampshire 03842

Mr. Alfred V. Sargent,
Chairman
Board of Selectmen
Town of Salisbury, MA 01950

Senator Gordon J. Humphrey
ATTN: Tom Burack
U.S. Senate
Washington, D.C. 20510

Mr. Owen B. Durgin, Chairman
Durham Board of Selectmen
Town of Durham
Durham, New Hampshire 03824

Charles Cross, Esq.
Shaines, Mardrigan and
McEaschern
25 Maplewood Avenue
Post Office Box 366
Portsmouth, New Hampshire 03801

Mr. Guy Chichester, Chairman
Rye Nuclear Intervention
Committee
c/o Rye Town Hall
10 Central Road
Rye, New Hampshire 03870

Jane Spector
Federal Energy Regulatory
Commission
825 North Capital Street, NE
Room 8105
Washington, D. C.. 20426

Mr. R. Sweeney
New Hampshire Yankee Division
Public Service of New Hampshire
Company
7910 Woodmont Avenue
Bethesda, Maryland 20814

Mr. William B. Derrickson
Senior Vice President
Public Service Company of
New Hampshire
Post Office Box 700, Route 1
Seabrook, New Hampshire 03874

APR 7 1986

Mr. Robert J. Harrison
Public Service Company of New Hampshire

Seabrook Nuclear Power Station
(other)

cc:
Governor of New Hampshire
State House
Concord, New Hampshire 03301

Massachusetts Department of
Environmental Quality Engineering
100 Cambridge Street
Boston, Massachusetts 02108

State Planning Officer
Executive Department
State of Maine
189 State Street
Augusta, Maine 04330

Chairman
New Hampshire Public Utilities
Commission
100 Cambridge Street
Boston, Massachusetts 02202

Federal Energy Regulatory Commission
825 North Capitol Street, NE
Washington, D.C. 20426

Office of the First Selectman
Town of Seabrook
Seabrook, New Hampshire 03874

Chairman
Vermont Public Service Board
120 State
State Office Building
Montpelier, Vermont 05502

Public Service Board
State of Vermont
120 State Street
Montpelier, Vermont 05602

Director, Criteria and Standards (SSERS)
(ANR-460)
Office of Radiation Programs
U.S. Environmental Protection Agency
Washington, D.C. 20460

Director, Eastern Environmental
Radiation Facility (SSERS)
U.S. Environmental Protection Agency
Post Office Box 3009

EIS Review Coordinator
Environmental Protection Agency
Region I
JFK Federal Building
Boston, Massachusetts 02203

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

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 the Public Service Company of New Hampshire (PSNH), as agent and representative of the utilities listed below (and hereafter the utilities listed below including PSNH collectively 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 2.D below):

*Public Service Company of New Hampshire is authorized to act as agent for the: Canal Electric Company, Connecticut Light and Power Company, EUA Power Corporation, Hudson Light & Power Company, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, New Hampshire Electric Cooperative, Inc., 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. PSNH 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 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 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 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, (the facility) a pressurized water nuclear reactor and associated equipment 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) PSNH, pursuant to Section 103 of the Act and 10 CFR 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 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with limitations herein and 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) The following criteria apply to the storage and handling of new fuel assemblies in the new fuel storage vault, spent fuel pool (when dry) and shipping containers:
 - a. 1. No more than two fuel assemblies shall be out of approved shipping containers or fuel assembly storage racks at any one time.
 2. PSNH shall maintain edge-to-edge distance of 12 inches:
 - a. Between the above two fuel assemblies,
 - b. Between fuel assemblies (out of storage) and the shipping container array, and
 - c. Between fuel assemblies (out of storage) and the storage rack arrays.
 - b. No more than 60 loaded shipping containers shall be allowed onsite at any one time.
 - c. No shipping container loaded with fuel shall be outside for more than 72 hours from time of receipt onsite.

These criteria do not apply to those fuel assemblies in the process of being transported to or from the reactor vessel.

- (5) PSNH, pursuant to the Act and 10 CFR 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;

- (6) PSNH, pursuant to the Act and 10 CFR 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
 - (7) PSNH, pursuant to the Act and 10 CFR 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
The licensee is authorized to load fuel and perform precriticality tests in accordance with the conditions specified herein for fuel loading and precritical operations.
 - (2) Technical Specifications 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.
 - (3) Inservice Inspection Program (Section 5.2.4, 6.6.3, 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 10 CFR Section 50.55a(q)(4), for NRC staff review and approval within six months from the date of this license.
 - (4) Radiation Data Management System (Section 7.5.2.2, SER, SSER 5)
Qualified non-fuse dependent isolation devices shall be installed and shall be operational before startup after the first refueling outage.

* 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.

(5) Fire Protection (Section 9.5.1.4, SER, SSER 4, SSER 5, SSER 6)

The applicant shall have the HVAC charcoal filter unit detection systems and any other modifications dictated by the fire hazards analysis complete and operable before exceeding 5% of rated power, and shall update the reports entitled "Fire Protection Program and Comparison to BTP APCS 9.5-1, Appendix A" and "Fire Protection of Safe Shutdown Capability (10 CFR 50, Appendix R)" by November 30, 1986.

(6) Accident Monitoring Instrumentation, TMI Action Plan Item II.F.1 (Section 11.5.2, SSER 2, SSER 5)

Before startup following the first refueling outage, PSNH shall demonstrate that the iodine/particulate sampling system is operable and will perform its intended function.

(7) 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 Management Agency's final rule, 44 CFR 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.

(8) 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 Section 50.59 shall be reported in accordance with Section 50.59(b) within one month of such change.

(9) Leakage Reduction Measurement Program (Section 15.9.15, SER, SSER 5)

Before proceeding above 5% of rated power, PSNH shall submit the results of leak rate measurements which demonstrate that its leakage reduction program has been successfully implemented.

(10) Safety Parameter Display System (Section 18, SER, SSER 4, SSER 6)

Before restart following the first refueling outage, PSNH shall have operational a Safety Parameter Display System (as described in PSNH's submittals dated January 6, 1986 and April 2, 1986, and as modified by the staff's audit findings) that is acceptable to the NRC.

(11) Inadvertent Boron Dilution

PSNH shall maintain a boron concentration of at least 2000 (two thousand) parts per million (PPM) in the reactor coolant and make-up water systems during fuel loading and precriticality testing. PSNH shall take the following special measures

to verify sources of water borated to less than 2000 ppm will be isolated from the reactor coolant system (RCS) and that the boron concentration level in the RCS shall be maintained at a level of at least 2000 ppm:

- a. Grab samples will be manually taken from the reactor coolant and make-up water systems and analyzed at least once per shift to verify that the boron concentration is at least 2000 ppm.
- b. The make-up water system will be sampled and analyzed each time any water is added to the system to verify that the boron concentration is at least 2000 ppm.
- c. The valves listed in Attachment 2 of PSNH'S submittal SBN-1196 dated September 17, 1986 will be mechanically locked closed with chains and padlocks to prevent borated water at concentration levels less than 2000 ppm from flowing into the RCS.
- d. Certain valves identified in Attachment 2 of PSNH'S submittal SBN-1196 dated September 17, 1986 will be locked closed except for the infrequent occasions when an activity required by plant chemistry requires these valves to be opened for a short time interval. In order to preclude inadvertent dilution at these times, an independent confirmation of valve positions will be made by a separate person knowledgeable of the systems being used each time the valves are manipulated.
- e. Each time valves are manipulated and water is added to the RCS, the licensee shall sample the RCS both before and after the addition of the water to determine the level of boron concentration of the water in the RCS and to ensure that the level is at least 2000 ppm.
- f. Verify on a daily basis that the valves listed in PSNH'S SBN 1196 submittal dated September 17, 1986 are chained locked closed (when not open for plant chemistry-related activities as noted in (11)d above).

- D. PSNH is exempted from the Section III.D.2(b)(ii) containment airlock testing requirements of Appendix J to 10 CFR 50, due to the special circumstance described in Section 6.2.6 of SER Supplement 5 authorized by 10 CFR Section 50.12(a)(2)(iii). This exemption authorized by law, will not present an undue risk to the public health and safety and will not be inimical to the common defense and security of the public. The exemption is hereby granted pursuant to 10 CFR Section 50.12 (51 FR 25279 July 11, 1986). 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.

PSNH is hereby exempted from provision of 10 CFR Section 70.24 insofar as this section applies to the storage and handling of new fuel assemblies in the new fuel storage vault, spent fuel pool (when dry) and shipping containers.

- E. PSNH 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 to such plans made pursuant to the authority of 10 CFR Section 50.90 and 10 CFR Section 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR Section 73.21, are entitled: "Seabrook Station Physical Security Plan", with revisions submitted through June 16, 1986, "Seabrook Station Security Training and Qualification Plan", with revisions submitted through August 31, 1982; and "Seabrook Station Safeguards Contingency Plan", with revision submitted through November 30, 1981.
- F. 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.

- G. Except as otherwise provided in the Technical Specifications or Environmental Protection Plan, PSNH 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 Part 50.73(b), (c) and (e).
- H. 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.
- I. This license is effective as of the date of issuance and shall expire at Midnight on October 17, 2026.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard H. Vollmer, Acting 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: OCT 17 1986

ATTACHMENT 1 TO NPF-56

This attachment identifies preoperational tests and other items which must be completed to NRC's satisfaction and identifies required timing for their completion.

1. Adopt final approved procedures for Modes 2 through 5 one week prior to entering the mode for which they are required.
2. Prior to criticality:
 - a. Complete preoperational testing and test results review for the following modified systems and components:
 - (1) Emergency feedwater (ST-51, ST-53, ST-55).
 - (2) Steam dump and main steam isolation bypass valves (ST-55).
 - (3) Pressurizer power-operated relief valves (PT 40. 1 test exception).
 - b. Provide satisfactory engineering solutions to outstanding construction deficiencies (10 CFR 50.55(e) reports).

APPENDIX B
TO FACILITY OPERATING LICENSE NO. NPF-56
SEABROOK STATION, UNIT 1
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DOCKET NO. 50-443
ENVIRONMENTAL PROTECTION PLAN
(NONRADIOLOGICAL)

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SEABROOK STATION, UNIT NO. 1

ENVIRONMENTAL PROTECTION PLAN

(NONRADIOLOGICAL)

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1.0 Objectives of the Environmental Protection Plan

The Environmental Protection Plan (EPP) is to provide for protection of non-radiological environmental values during operation of the nuclear facility.

The principal objectives of the EPP are as follows:

- (1) Verify that the facility is operated in an environmentally acceptable manner, as established by the Final Environmental Statement - Operating Licensing Stage (FES-OL) and other NRC environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State and local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility construction and operation of actions taken to control those effects.

Environmental concerns identified in the FES-OL which relate to water quality matters are regulated by way of the licensee's NPDES permit.

2.0 Environmental Protection Issues

In the FES-0L (NUREG-0895) dated December, 1982, the staff considered the environmental impacts associated with the operation of Seabrook Station, Unit No. 1. No aquatic/water quality, terrestrial, or noise issues were identified.

Aquatic matters are addressed by the effluent limitations and monitoring requirements contained in NPDES Permit No. NH0020338 issued by the U. S. Environmental Protection Agency (Region I) on July 26, 1985. The NRC will rely on the U.S.E.P.A and the NPDES Permit for regulation of matters involving water quality and aquatic biota.

3.0 Consistency Requirements

3.1 Plant Design and Operation

The licensee may make changes in station design or operation or perform tests or experiments affecting the environment provided such activities do not involve an unreviewed environmental question and do not involve a change in the EPP*. Changes in station design or operation or performance of tests or experiments which do not affect the environment are not subject to the requirements of this EPP. Activities governed by Section 3.3 are not subject to the requirements of this Section.

Before engaging in additional construction or operational activities which may significantly affect the environment, the licensee shall prepare and record an environmental evaluation of such activity. Activities are excluded from this requirement if all measurable nonradiological environmental effects are confined to the onsite areas previously disturbed during site preparation and plant construction. When the evaluation indicates that such activity involves an unreviewed environmental question, the licensee shall provide a

* This provision does not relieve the licensee of the requirements of 10 CFR 50.59.

written evaluation of such activity and obtain prior NRC approval. When such activity involves a change in the EPP, such activity and change to the EPP may be implemented only in accordance with an appropriate license amendment as set forth in Section 5.3 of this EPP.

A proposed change, test or experiment shall be deemed to involve an unreviewed environmental question it concerns: (1) a matter which may result in a significant increase in any adverse environmental impact previously evaluated in the FES-OL, environmental impact appraisals, or in any decisions of the Atomic Safety and Licensing Board; or (2) a significant change in effluents or power level; or (3) a matter, not previously reviewed and evaluated in the documents specified in (1) of this Subsection, which may have a significant adverse environmental impact.

The licensee shall maintain records of changes in facility design or operation and of tests and experiments carried out pursuant to this Subsection. These records shall include written evaluations which provide bases for the determination that the change, test, or experiment does not involve an unreviewed environmental question or constitute a decrease in the effectiveness of this EPP to meet the objectives specified in Section 1.0. The licensee shall include as part of the Annual Environmental Operating Report (per Subsection 5.4.1) brief descriptions, analyses, interpretations, and evaluations of such changes, tests and experiments.

3.2 Reporting Related to the NPDES Permit and State Certification

Changes to, or renewals of, the NPDES Permits or the State certification shall be reported to the NRC within 30 days following the date the change or renewal is approved. If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days following the date the stay is granted.

The licensee shall notify the NRC of changes to the effective NPDES Permit proposed by the licensee by providing NRC with a copy of the proposed change at the same time it is submitted to the permitting agency. The licensee shall provide the NRC a copy of the application for renewal of the NPDES Permit at the same time the application is submitted to the permitting agency.

3.3 Changes Required for Compliance with Other Environmental Regulations

Changes in plant design or operation and performance of tests or experiments which are required to achieve compliance with other Federal, State, and local environmental regulations are not subject to the requirements of Section 3.1.

4.0 Environmental Conditions

4.1 Unusual or Important Environmental Events

Any occurrence of an unusual or important event that indicates or could result in significant environmental impact causally related to plant operation shall be recorded and reported to the NRC within 24 hours followed by a written report per Subsection 5.4.2. The following are examples: excessive bird impaction events, onsite plant or animal disease outbreaks; mortality or unusual occurrence of any species protected by the Endangered Species Act of 1973; fish kills; increase in nuisance organisms or conditions; and unanticipated or emergency discharge of waste water or chemical substances.

No routine monitoring programs are required to implement this condition.

4.2 Environmental Monitoring

4.2.1 Aquatic Monitoring

The certifications and permits required under the Clean Water Act provide mechanisms for protecting water quality and, indirectly, aquatic biota. The NRC will rely on the decisions made by the U. S. Environmental Protection Agency and the State of New Hampshire under the authority of the Clean Water Act, for any requirements for aquatic monitoring.

4.2.2 Terrestrial Monitoring

Terrestrial monitoring is not required.

4.2.3 Noise Monitoring

- Noise monitoring is not required

5.0 Administrative Procedures

5.1 Review and Audit

The licensee shall provide for review and audit of compliance with the EPP. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. A description of the organization structure utilized to achieve the independent review and audit function and results of the audit activities shall be maintained and made available for inspection.

5.2 Records Retention

Records and logs relative to the environmental aspects of station operation shall be made and retained in a manner convenient for review and inspection. These records and logs shall be made available to NRC on request.

Records of modifications to station structures, systems and components determined to potentially affect the continued protection of the environment shall be retained for the life of the station. All other records, data and logs relating to this EPP shall be retained for five years or, where applicable, in accordance with the requirements of other agencies.

5.3 Changes in Environmental Protection Plan

Requests for changes in the EPP shall include an assessment of the environmental impact of the proposed change and a supporting justification. Implementation of such changes in the EPP shall not commence prior to NRC approval of the proposed changes in the form of a license amendment incorporating the appropriate revision to the EPP.

5.4 Plant Reporting Requirements

5.4.1 Routine Reports

An Annual Environmental Operating Report describing implementation of this EPP for the previous year shall be submitted to the NRC prior to May 1 of each year. The period of the first report shall begin with the date of issuance of the operating license, and the initial report shall be submitted prior to May 1 of the year following issuance of the operating license.

The report shall include summaries and analyses of the results of the environmental protection activities required by Subsection 4.2 (if any) of this EPP for the report period, including a comparison with related preoperational studies, operational controls (as appropriate), and previous nonradiological environmental monitoring reports, and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of trends toward irreversible damage to the environment are observed, the

licensee shall provide a detailed analysis of the data and a proposed course of mitigating action.

The Annual Environmental Operating Report shall also include:

- (1) A list of EPP noncompliances and the corrective actions taken to remedy them.
- (2) A list of all changes in station design or operation, tests, and experiments made in accordance with Subsection 3.1 which involved a potentially significant unreviewed environmental question.
- (3) A list of nonroutine reports submitted in accordance with Subsection 5.4.2.

In the event that some results are not available by the report due date, the report shall be submitted noting and explaining the missing results. The missing results shall be submitted as soon as possible in a supplementary report.

5.4.2 Nonroutine Reports

A written report shall be submitted to the NRC within 30 days of occurrence of a nonroutine event. The report shall: (a) describe, analyze, and evaluate the event, including extent and magnitude of the impact, and plant operating

characteristics; (b) describe the probable cause of the event, (c) indicate the action taken to correct the reported event; (d) indicate the corrective action taken to preclude repetition of the event and to prevent similar occurrences involving similar components or systems; and (e) indicate the agencies notified and their preliminary responses.

Events reportable under this subsection which also require reports to other Federal, State or local agencies shall be reported in accordance with those reporting requirements in lieu of the requirements of this Subsection. The NRC shall be provided with a copy of such report at the same time it is submitted to the other agency.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE*SEABROOK STATION, UNIT NO. 1DOCKET NO. 50-443NOTICE OF ISSUANCE OF FACILITY OPERATING LICENSE

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission or NRC), has issued Facility Operating License No. NPF-56 to Public Service Company of New Hampshire (PSNH) and the owners listed below* (the utilities listed below including PSNH collectively referred to as the licensees) which authorizes fuel loading and precriticality testing of the Seabrook Station, Unit No. 1 (the facility). Pending Commission approval this license is restricted to fuel loading and precriticality testing.

The Seabrook Station, Unit No. 1 (Seabrook Unit 1) is a pressurized water reactor located on the southeast coast of New Hampshire in Seabrook Township, Rockingham County, New Hampshire. The license is effective as of the date of issuance.

The application for the license complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the

*Public Service Company of New Hampshire is authorized to act as agent for the: Canal Electric Company, Connecticut Light and Power Company, EUA Power Corporation, Hudson Light & Power Company, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, New Hampshire Electric Cooperative, Inc., Tauton 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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Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I which are set forth in the license. Prior public notice of the overall action involving the proposed issuance of an operating license was published in the Federal Register on October 19, 1981 (46 FR 51330).

The Commission has determined that the issuance of this license will not result in any environmental impacts other than those evaluated in the Final Environmental Statement since the activity authorized by the license is encompassed by the overall action evaluated in the Final Environmental Statement.

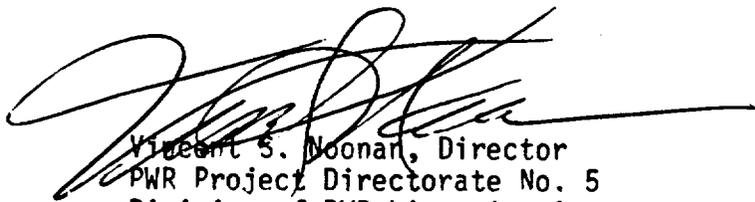
For further details with respect to this action, see (1) Facility Operating License No. NPF-56, with Technical Specifications (NUREG-1207) and the Environmental Protection Plan; (2) the report of the Advisory Committee on Reactor Safeguards, dated April 19, 1983; (3) the Commission's Safety Evaluation Report, dated March 1983 (NUREG-0896), and Supplements 1 through 6; (4) the Final Safety Analysis Report and Amendments thereto; (5) the Environmental Report and supplements thereto; and (6) the Final Environmental Statement dated December 1982 (NUREG-0895); and (7) Assessment of the Effect of License Duration on Matters Discussed in the Final Environmental Statement for the Seabrook Station, Unit No. 1.

These items are available for inspection at the Commission's Public Document Room located at 1717 H Street, N.W., Washington, D. C. 20555 and in the Exeter Public Library, Front Street, Exeter, New Hampshire 03833. A copy of Facility Operating License NPF-56 may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention:

Director, Project Directorate No. 5, PWR Licensing-A. Copies of the Safety Evaluation Report and Supplements 1 through 6 (NUREG-0896) and the Final Environmental Statement (NUREG-0895) may be purchased at current rates from the Superintendent of Documents, U. S. Government Printing Office, Post Office Box 37082, Washington D. C. 20013-7982 or by calling (202) 275-2060 or (202) 275-2171.

Dated at Bethesda, Maryland this 17th day of October 1986.

FOR THE NUCLEAR REGULATORY COMMISSION



Vincent S. Noonan, Director
PWR Project Directorate No. 5
Division of PWR Licensing-A



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

Docket No. 50-443

AMENDMENT TO INDEMNITY AGREEMENT NO. B-106
AMENDMENT NO. 1

Effective October 17, 1986, Indemnity Agreement No. B-106, between Public Service Company of New Hampshire, The United Illuminating Company, Massachusetts Municipal Wholesale Electric Company, New England Power Company, Central Maine Power Company, The Connecticut Light and Power Company, Canal Electric Company, Montaup Electric Company, Bangor Hydro Electric Company, New Hampshire Electric Cooperative, Inc., Central Vermont Public Service Corporation, Maine Public Service Company, Fitchburg Gas and Electric Light Company, Vermont Electric Generation and Transmission Cooperative, Taunton Municipal Lighting Plant, Hudson Light and Power Department and the Nuclear Regulatory Commission, dated December 18, 1985, is hereby amended as follows:

Item 1 of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 1 - Licensees

Public Service Company of New Hampshire
Canal Electric Company
The Connecticut Light and Power Company
Hudson Light and Power Department
Massachusetts Municipal Wholesale Electric Company
EUA Power Corporation
Montaup Electric Company
New England Power Company
New Hampshire Electric Cooperative, Inc.
Taunton Municipal Lighting Plant
The United Illuminating Company
Vermont Electric Generation and Transmission Cooperative, Inc.

Item 3 of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 3 - License number or numbers

SNM-1963 (From 12:01 a.m., December 18, 1985 to
12 midnight October 16, 1986
inclusive)

NPF-56 (From 12:01 a.m., October 17, 1986)

Item 5 of the Attachment to the indemnity agreement is amended by adding the following:

Nuclear Energy Liability Policy (Facility Form)
No. MF-127 issued by Mutual Atomic Energy Liability
Underwriters.

FOR THE U. S. NUCLEAR REGULATORY COMMISSION


Darrel Nash, Acting Assistant Director
State and Licensee Relations
Office of State Programs

Accepted _____, 1986

By _____
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

Accepted _____, 1986

By _____
MASSACHUSETTS MUNICIPAL WHOLESALE
ELECTRIC COMPANY

Accepted _____, 1986

By _____
CENTRAL MAINE POWER COMPANY

Accepted _____, 1986

By _____
CANAL ELECTRIC COMPANY

Accepted _____, 1986

By _____
THE UNITED ILLUMINATING COMPANY

Accepted _____, 1986

By _____
NEW ENGLAND POWER COMPANY

Accepted _____, 1986

By _____
THE CONNECTICUT LIGHT AND
POWER COMPANY

Accepted _____, 1986

By _____
MONTAUP ELECTRIC COMPANY

Accepted _____, 1986

By BANGOR HYDRO ELECTRIC COMPANY

Accepted _____, 1986

By CENTRAL VERMONT PUBLIC SERVICE CORPORATION

Accepted _____, 1986

By FITCHBURG GAS AND ELECTRIC LIGHT COMPANY

Accepted _____, 1986

By TAUNTON MUNICIPAL LIGHTING PLANT

Accepted _____, 1986

By EUA POWER CORPORATION

Accepted _____, 1986

By NEW HAMPSHIRE ELECTRIC COOPERATIVE, INC.

Accepted _____, 1986

By MAINE PUBLIC SERVICE COMPANY

Accepted _____, 1986

By VERMONT ELECTRIC GENERATION AND TRANSMISSION COOPERATIVE, INC.

Accepted _____, 1986

By HUDSON LIGHT AND POWER DEPARTMENT



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

ASSESSMENT OF THE EFFECT ON LICENSE DURATION ON MATTERS DISCUSSED
IN THE FINAL ENVIRONMENTAL STATEMENT FOR THE SEABROOK STATION
UNIT 1 (DATED OCTOBER 1986)

INTRODUCTION

The Final Environmental Statement (FES) for the operation of the Seabrook Station, Unit 1 was published in December 1982. It has been past practice to issue operating licenses for a period of 40 years from the date of the construction permit. For Seabrook, the CP was issued in July 1976, thus, approximately 30 years of operating life would be available.

By letter dated June 25, 1986, Public Service Company of New Hampshire (PSNH) requested that the operating license for Seabrook Station, Unit 1 have a duration of 40 years from the date of issuance.

DISCUSSION

The NRC staff has reviewed the Seabrook FES to determine which aspects considered in the FES are affected by the duration of the operating license. In general, the FES assesses various impacts associated with operation of the facility in terms of annual energy production benefits. Thus, the overall assessment and conclusions would not be dependent on specific operating life. There are, however, three areas in the FES for which a specific operating life was assumed:

1. Radiological assessments are based on a 20-year plant midlife.
2. Uranium fuel cycle impacts are based on one initial core load and 29 annual refuelings.
3. Uranium availability is evaluated through 30 years of operation.

Radiological assessments were evaluated based on a 40 year operating period (20 year plant midlife) in Section 5.9.3.1 of the FES.

EVALUATION

The NRC staff's appraisal of the significance of the use of 40 years of operation rather than 30 as it affects these two areas is presented in the following discussions:

Uranium Fuel Cycle Impact - The impacts of the uranium fuel cycle were based on 30 years of operation of a model LWR. The fuel requirements for the model LWR were assumed to be one initial core load and 29 annual refuelings of approximately 1/3 core change for each refueling for an equivalent of 10.7 full core loads over 30 years (0.36 core per year average). The fuel requirement of the model LWR over a 40 year operating life is 1 initial core load and 39 annual refuelings for an equivalent of 14 full loads over 40 years (0.35 core per year average). Thus the average annual fuel requirement for a 40 year license is slightly lower when compared to the annual fuel requirement for a 30 year license. The new result would be a small reduction in the annual fuel requirement for the model LWR. This small reduction would not lead to changes in the impacts of the uranium fuel cycle.

Uranium Resources - A 33% increase in the Seabrook Station Unit 1 operating life (to 40 years) would still be within the projected uranium resources since the cancellation of many reactors will result in an off-setting reduction in demand. Furthermore, the increase in operating life assumption to 40 years will reduce the need for replacement generating capacity, including nuclear, at the end of the 30 years.

CONCLUSION

The NRC staff has evaluated the environmental impact of these areas which are dependent on a specific operating life for Seabrook Station Unit 1 and concluded, based on the reasons discussed above, that the impacts associated with a 40 year operating license duration are not significantly different from those associated with a 30 operating license duration and are not significantly different from those assessed in the Seabrook FES.

Date of Issuance: October 17, 1986

SUBJECT: SEABROOK UNIT 1 FUEL LOAD AND PRECRITICALITY TESTING LICENSE - NPF-56

DISTRIBUTION:

Docket File*

NRC PDR*

Local PDR*

PAD5 Reading

VNoonan

MRushbrook* (5)

VNurses

TNovak*

JSaltzman, SP

I. Dinitz, SP

OELD*

CMiles

HDenton

JRutberg/Vogler

WLambe

RDiggs, LFB

JPartlow*

BGrimes*

EJordan*

LHarmon*

VBeneroya, FOB

CMoon, FOB

TBarnhart(4)*

Inez Baily*

ACRS (13)

J. Marnella Rodriguez, RM/AFO

L. Solander, PPAS

* w/tech specs.

C. James Holloway, Jr., LFM/ADM

Docket No.: 50-443

OCT 17 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: ISSUANCE OF FACILITY OPERATING LICENSE NPF-56 - SEABROOK STATION,
UNIT NO. 1

The U. S. Nuclear Regulatory Commission (NRC) has issued the enclosed Facility Operating License NPF-56, together with the Technical Specifications and the Environmental Protection Plan for the Seabrook Station, Unit No. 1. License No. NPF-56 authorizes fuel loading and precriticality testing of the Seabrook Station, Unit 1.

Enclosed is a copy of a related notice, the original of which has been forwarded to the Office of the Federal Register for publication.

Eighteen signed copies of Amendment No. 1 to Indemnity Agreement No. B-106 which covers the activities authorized under License No. NPF-56 are also enclosed. Please sign all copies and return one to this office.

Sincerely,

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

Enclosures:

1. Facility Operating License No. NPF-56
2. Federal Register Notice
3. Amendment No. 1 to Indemnity Agreement No. B-106
4. Assessment of the Effects of License Duration on Matters Discussed in the FES

cc w/enclosures: See next page

A. Vietti-Cole

RWRAB MRushbrook 10/15/86	<i>10/15/86</i> PWR#5 XNurses 10/16/86	P&RAS WLambe 10/16/86	<i>10/16/86</i> SP IDinitz 10/16/86	OELD JRuthberg 10/16/86	OELD STurk 10/16/86
<i>10/16/86</i> OELD JScinto 10/16/86	DIR:PWR#5 VSNoonan 10/16/86	PWR-A D/D TMNovak 10/16/86			

10/16/86
Subject to Review
for the PWR
10/16/86

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.

- G. Except as otherwise provided in the Technical Specification or Environmental Protection Plan, PSNH 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 Part 50.73(b), (c) and (e).
- H. 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.
- I. This license is effective as of the date of issuance and shall expire at Midnight on October 17, 2026.

FOR THE NUCLEAR REGULATORY COMMISSION

15/
 Richard H. Vollmer, Acting 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: October 17, 1986

*See previous concurrences

PWR#5 M Rushbrook:es 10/17/86	PWR#5 VNerses / /86	P&RAS WLambe / /86	SP IDinitz / /86	SP JSaltzman / /86	OELD BVogler / /86
OELD STurk / /86	OELD JScinto / /86	DIR:PWR#5 VSNoonan / /86	DD/PWR-A TMNovak / /86	D/PWR-A HThompson / /86	ACTD/NRR RH Vollmer 10/17/86

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- I. 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:

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A. Ketti Cook
10/15/86

PD#5
V. Nersis
10/15/86

P&RAS
W. Lambe
10/16/86

SP
ID#172Z
10/16/86

OGC
B. Vogler
10/16/86

OGC
R. Perini
10/16/86

OGC
J. Seinto
10/16/86

EB/PWR-A
R. Ballard
10/16/86

PSB/PWR-A
J. Milhoan
10/16/86

RSB/PWR-A
C. Berlinger
10/16/86

EI&CSB/PWR-A
F. Rosa
10/16/86

FOB/PWR-A
V. Benaroya
10/16/86

AD/PWR-A
E. Rossi
10/16/86

PD/PD#5
V. Noonan
10/16/86

AD/PWR-A
T. Novak
10/16/86

D/ONRR
H. Denton
10/16/86

Subject to review by the Commission
Harold R. Denton
WJ
TRM

Director, Project Directorate No. 5, PWR Licensing-A. Copies of the Safety Evaluation Report and Supplements 1 through 6 (NUREG-0896) and the Final Environmental Statement (NUREG-0895) may be purchased at current rates from the Superintendent of Documents, U. S. Government Printing Office, Post Office Box 37082, Washington D. C. 20013-7982 or by calling (202) 275-2060 or (202) 275-2171.

Dated at Bethesda, Maryland this 17th day of October 1986.

FOR THE NUCLEAR REGULATORY COMMISSION

15/

Vincent S. Noonan, Director
PWR Project Directorate No. 5
Division of PWR Licensing-A

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