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Docket Nos. 50-443
50-444

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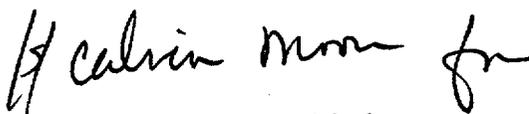
Mr. W. C. Tallman, President
Public Service Company of New Hampshire
1000 Elm Street
Manchester, New Hampshire 03105

Dear Mr. Tallman:

Pursuant to an Initial Decision by the Atomic Safety and Licensing Board, the Nuclear Regulatory Commission has issued Construction Permits CPPR-135 and CPPR-136 for the construction of Seabrook Station, Units 1 and 2. These construction permits are effective as of the date of issuance but if EPA should approve a closed cycle cooling system, the permits will be automatically revoked. A copy of the Initial Decision has been sent to you under separate cover.

Construction Permits CPPR-135 and CPPR-136 are enclosed, together with a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

Sincerely,



D. B. Vassallo, Chief
Light Water Reactor Branch 4
Division of Project Management

Enclosures:

1. Construction Permits
2. Federal Register Notice

ccs:

Listed on next page

OFFICE	LWR-4	LWR-4	EP	OELD	LWR-4
SURNAME	MService:ng	CMoon			DBVassallo
DATE	7/1/76	7/7/76	7/1/76	7/1/76	7/1/76

cc: John A. Ritscher, Esq.

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Office of Comprehensive Planning
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Concord, New Hampshire 03301

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Chief, TIRB
Technology Assessment Division
Office of Radiation Programs
U. S. Environmental Protection Agency
Room 647A, East Tower
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Washington, D. C. 20460

The United Illuminating Company
80 Temple Street
New Haven, Connecticut 06506

Central Maine Power Company
9 Green Street
Augusta, Maine 04330

The Connecticut Light and Power Company
Selden Street
Berlin, Connecticut 06037

Fitchburg Gas and Electric Light Company
655 Main Street
Fitchburg, Massachusetts 04121

Montaup Electric Company
P. O. Box 391
Fall River, Massachusetts 02722

cc: New Bedford Gas & Edison Light Company
693 Purchase Street
New Bedford, Massachusetts 02741

New England Power Company
20 Turnpike Road
Westborough, Massachusetts 01581

Vermont Electric Power Company Inc.
77 Grove Street
Rutland, Vermont 05701

Green Mountain Power Corporation
1 Main Street
Burlington, Vermont 05401

Central Vermont Public Service
Corporation
77 Grove Street
Rutland, Vermont 05701

Mr. Henry Kolbe, M. D.
Acting Commissioner of Public Health
Massachusetts Department of Public
Health
600 Washington Street
Boston, Massachusetts 02111

Mr. Kenyon Karl
State Planning Officer
Executive Department
State of Maine
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Augusta, Maine 04330

Mr. Bruce Blanchard, Director
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Department of the Interior
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Washington, D. C. 20240

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NOS. 50-443 and 50-444

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
THE UNITED ILLUMINATING COMPANY
CENTRAL MAINE POWER COMPANY
CENTRAL VERMONT PUBLIC SERVICE CORPORATION
THE CONNECTICUT LIGHT AND POWER COMPANY
FITCHBURG GAS AND ELECTRIC LIGHT COMPANY
MONTAUP ELECTRIC COMPANY
NEW BEDFORD GAS & EDISON LIGHT COMPANY
NEW ENGLAND POWER COMPANY
GREEN MOUNTAIN POWER CORPORATION
VERMONT ELECTRIC POWER COMPANY, INC.

NOTICE OF AVAILABILITY OF INITIAL DECISION OF THE ATOMIC SAFETY
AND LICENSING BOARD FOR THE SEABROOK STATION, UNITS 1 AND 2,
AND ISSUANCE OF CONSTRUCTION PERMITS

Pursuant to the Atomic Energy Act of 1954, as amended (the Act), and the National Environmental Policy Act of 1969 (NEPA), and the United States Nuclear Regulatory Commission's regulations implementing these Acts, notice is hereby given that an Initial Decision dated June 29, 1976, by the Atomic Safety and Licensing Board in the above captioned proceeding authorizing issuance of construction permits to the Public Service Company of New Hampshire, et al, for construction of the Seabrook Station, Units 1 and 2, located in Rockingham County, New Hampshire, is available for inspection by the public in the Commission's Public Document Room at 1717 H Street, NW, Washington, D. C. and in the Exeter Public Library, Front Street, Exeter, New Hampshire 03833.

The Initial Decision is subject to review by an Atomic Safety and Licensing Appeal Board prior to its becoming final. Any decision or action taken by an Atomic Safety and Licensing Appeal Board in connection

OFFICE	with the Initial Decision may be reviewed by the Commission.			
SURNAME	<i>LWR 4</i> LWR 4	<i>LWR 4</i> LWR 4	<i>VMoore</i> VMoore	<i>RDeYoung</i> RDeYoung
DATE	<i>7/7/76</i> 7/7/76	<i>7/7/76</i> 7/7/76	<i>7/7/76</i> 7/7/76	<i>7/7/76</i> 7/7/76

The Initial Decision is also being made available at the State Clearinghouse, Coordinator of Federal Funds, Office of the Governor, State House, Concord, New Hampshire 03301 and at the Strafford Rockingham Regional Council, 99 Water Street, Exeter, New Hampshire 03833.

Based upon the record developed in the public hearing in the above captioned matter, the Initial Decision modified in certain respects the contents of the Final Environmental Statement relating to the construction of the Seabrook Station, Units 1 and 2, prepared by the Commission's Office of Nuclear Reactor Regulation to include a condition that in the event EPA should approve a closed-cycle cooling system for Seabrook, the construction permits are not authorized. Pursuant to the provisions of Section 51.52(b) (3) of 10 CFR Part 51, the Final Environmental Statement is deemed modified to the extent that the findings and conclusions relating to environmental matters contained in the Initial Decision are different from those contained in the Final Environmental Statement. As required by Section 51.52(b) (3) of 10 CFR Part 51, a copy of the Initial Decision, which modifies the Final Environmental Statement, has been transmitted to the Council on Environmental Quality and distributed to the Environmental Protection Agency and other interested agencies and persons in accordance with Section 51.26(c) of 10 CFR Part 51.

Pursuant to the above mentioned Initial Decision, the Commission has issued Construction Permits Nos. CPPR-135 and CPPR-136 to the Public Service Company of New Hampshire, et al, for the construction of two pressurized water nuclear reactors, known as the Seabrook Station, Units 1 and 2, each designed for a rated power of approximately 3411 megawatts

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~~Internal with a net electrical output of approximately 1200 megawatts.~~

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter 1, which are set forth in the construction permits. The application for the construction permits complies with the standards and requirements of the Act and the Commission's rules and regulations.

The construction permits are effective as of their date of issuance, but will be automatically revoked if EPA should approve a closed-cycle cooling system for Seabrook. The earliest date for the completion of Unit 1 is February 28, 1979, and the latest date for completion is June 30, 1983. The earliest date for the completion of Unit 2 is January 31, 1981, and the latest date for completion is October 31, 1984. Each permit shall expire on the latest date for completion of the facility.

In addition to the Initial Decision, copies of (1) Construction Permits Nos. CPPR-135 and CPPR-136; (2) the report of the Advisory Committee on Reactor Safeguards dated December 10, 1974, (3) the Office of Nuclear Reactor Regulation's Safety Evaluation dated August 14, 1974, and Supplements No. 1, 2, 3, and 4 thereto, dated August 20, 1974, October 8, 1974, March 14, 1975, and November 14, 1975 respectively; (4) the Preliminary Safety Analysis Report and amendments thereto; (5) the applicant's Environmental Report dated July 9, 1973, and supplements thereto; (6) the Draft Environmental Statement dated April 1974; and (7) the Final Environmental Statement dated December 1974, are also available for public

	Inspection at the	above-designated locations	In Washington, D. C. and	
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Exeter, New Hampshire. Single copies of the Initial Decision by the Atomic Safety and Licensing Board and the construction permits may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland, this 7th day of July, 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

R. C. DeYoung, Deputy Director
Division of Project Management
Office of Nuclear Reactor Regulation

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DATE ➤						

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NOS. 50-443 and 50-444

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
THE UNITED ILLUMINATING COMPANY
CENTRAL MAINE POWER COMPANY
CENTRAL VERMONT PUBLIC SERVICE CORPORATION
THE CONNECTICUT LIGHT AND POWER COMPANY
FITCHBURG GAS AND ELECTRIC LIGHT COMPANY
MONTAUP ELECTRIC COMPANY
NEW BEDFORD GAS & EDISON LIGHT COMPANY
NEW ENGLAND POWER COMPANY
GREEN MOUNTAIN POWER CORPORATION
VERMONT ELECTRIC POWER COMPANY, INC.

NOTICE OF AVAILABILITY OF INITIAL DECISION OF THE ATOMIC SAFETY
AND LICENSING BOARD FOR THE SEABROOK STATION, UNITS 1 AND 2,
AND ISSUANCE OF CONSTRUCTION PERMITS

Pursuant to the Atomic Energy Act of 1954, as amended (the Act), and the National Environmental Policy Act of 1969 (NEPA), and the United States Nuclear Regulatory Commission's regulations implementing these Acts, notice is hereby given that an Initial Decision dated June 29, 1976, by the Atomic Safety and Licensing Board in the above captioned proceeding authorizing issuance of construction permits to the Public Service Company of New Hampshire, et al, for construction of the Seabrook Station, Units 1 and 2, located in Rockingham County, New Hampshire, is available for inspection by the public in the Commission's Public Document Room at 1717 H Street, NW, Washington, D. C. and in the Exeter Public Library, Front Street, Exeter, New Hampshire 03833.

The Initial Decision is subject to review by an Atomic Safety and Licensing Appeal Board prior to its becoming final. Any decision or action taken by an Atomic Safety and Licensing Appeal Board in connection with the Initial Decision may be reviewed by the Commission.

The Initial Decision is also being made available at the State Clearinghouse, Coordinator of Federal Funds, Office of the Governor, State House, Concord, New Hampshire 03301 and at the Strafford Rockingham Regional Council, 99 Water Street, Exeter, New Hampshire 03833.

Based upon the record developed in the public hearing in the above captioned matter, the Initial Decision modified in certain respects the contents of the Final Environmental Statement relating to the construction of the Seabrook Station, Units 1 and 2, prepared by the Commission's Office of Nuclear Reactor Regulation to include a condition that in the event EPA should approve a closed-cycle cooling system for Seabrook, the construction permits are not authorized. Pursuant to the provisions of Section 51.52(b) (3) of 10 CFR Part 51, the Final Environmental Statement is deemed modified to the extent that the findings and conclusions relating to environmental matters contained in the Initial Decision are different from those contained in the Final Environmental Statement. As required by Section 51.52(b) (3) of 10 CFR Part 51, a copy of the Initial Decision, which modifies the Final Environmental Statement, has been transmitted to the Council on Environmental Quality and distributed to the Environmental Protection Agency and other interested agencies and persons in accordance with Section 51.26(c) of 10 CFR Part 51.

Pursuant to the above mentioned Initial Decision, the Commission has issued Construction Permits Nos. CPPR-135 and CPPR-136 to the Public Service Company of New Hampshire, et al, for the construction of two pressurized water nuclear reactors, known as the Seabrook Station, Units 1 and 2, each designed for a rated power of approximately 3411 megawatts thermal with a net electrical output of approximately 1200 megawatts.

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter 1, which are set forth in the construction permits. The application for the construction permits complies with the standards and requirements of the Act and the Commission's rules and regulations.

The construction permits are effective as of their date of issuance, but will be automatically revoked if EPA should approve a closed-cycle cooling system for Seabrook. The earliest date for the completion of Unit 1 is February 28, 1979, and the latest date for completion is June 30, 1983. The earliest date for the completion of Unit 2 is January 31, 1981, and the latest date for completion is October 31, 1984. Each permit shall expire on the latest date for completion of the facility.

In addition to the Initial Decision, copies of (1) Construction Permits Nos. CPPR-135 and CPPR-136; (2) the report of the Advisory Committee on Reactor Safeguards dated December 10, 1974, (3) the Office of Nuclear Reactor Regulation's Safety Evaluation dated August 14, 1974, and Supplements No. 1, 2, 3, and 4 thereto, dated August 20, 1974, October 8, 1974, March 14, 1975, and November 14, 1975 respectively; (4) the Preliminary Safety Analysis Report and amendments thereto; (5) the applicant's Environmental Report dated July 9, 1973, and supplements thereto; (6) the Draft Environmental Statement dated April 1974; and (7) the Final Environmental Statement dated December 1974, are also available for public inspection at the above-designated locations in Washington, D. C. and

Exeter, New Hampshire. Single copies of the Initial Decision by the Atomic Safety and Licensing Board and the construction permits may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland, this 7th day of July, 1976.

FOR THE NUCLEAR REGULATORY COMMISSION



R. C. DeYoung, Deputy Director
Division of Project Management
Office of Nuclear Reactor Regulation

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
THE UNITED ILLUMINATING COMPANY
CENTRAL MAINE POWER COMPANY
CENTRAL VERMONT PUBLIC SERVICE CORPORATION
THE CONNECTICUT LIGHT AND POWER COMPANY
FITCHBURG GAS AND ELECTRIC LIGHT COMPANY
MONTAUP ELECTRIC COMPANY
NEW BEDFORD GAS & EDISON LIGHT COMPANY
NEW ENGLAND POWER COMPANY
GREEN MOUNTAIN POWER CORPORATION
VERMONT ELECTRIC POWER COMPANY, INC.

DOCKET NO. 50-443

SEABROOK STATION, UNIT 1

CONSTRUCTION PERMIT

Construction Permit No. CPPR-135

- I. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for construction permit complies with the requirements of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission, there is reasonable assurance that the activities authorized by the permit will be conducted in compliance with the rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made;
 - B. The Public Service Company of New Hampshire, The United Illuminating Company, Central Maine Power Company, Central Vermont Public Service Corporation, The Connecticut Light and Power Company, Fitchburg Gas and Electric Company, Montaup Electric Company, New Bedford Gas & Edison Light Company, New England Power Company, Green Mountain Power Corporation, and Vermont Electric Company, Inc. (the applicants) have described the proposed design of the Seabrook Station, Unit 1 (the facility), including, but not limited to the principal architectural and engineering criteria for the design and have identified the major features or components incorporated therein for the protection of the health and safety of the public;
 - C. Such further technical or design information as may be required to complete the safety analysis, and which can reasonably be left for later consideration, will be supplied by the applicants in the final safety analysis report;

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SURNAME ➤	CMOOR	DVassallo	VASSALLO	KASMAN	REYoung	RBoyd
DATE ➤	7/7/76	7/7/76	7/7/76	7/7/76	7/7/76	7/7/76

- D. There are no safety features or components of the Seabrook facility design which require research and development within the meaning of Section 50.2(n) of 10 CFR Part 50;
- E. On the basis of the foregoing, there is reasonable assurance that (i) such safety questions will be satisfactorily resolved at or before the latest date stated in the application for completion of construction of the proposed facility and (ii) taking into consideration the site criteria contained in 10 CFR Part 100, the proposed facility can be constructed and operated at the proposed location without undue risk to the health and safety of the public;
- F. Public Service Company of New Hampshire is technically qualified to design and construct the proposed facility;
- G. The applicants are financially qualified to design and construct the proposed facility;
- H. The issuance of a permit for the construction of the facility will not be inimical to the common defense and security or to the health and safety of the public; and
- I. The requirements of Section 102(2)(A), (C), and (D) of NEPA and of the Commission's regulations implementing NEPA have been complied with in this proceeding.
- J. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of a construction permit subject to the conditions for protection of the environment set forth herein is in accordance with the Commission's regulations implementing NEPA and all applicable requirements have been satisfied.

2. Pursuant to Section 103 of the Atomic Energy Act of 1975, as amended, (the Act), and Title 10, Chapter 1, Code of Federal Regulations Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated June 29, 1976, the Nuclear Regulatory Commission (the Commission) hereby issues a construction permit to the applicants for a utilization facility designed to operate at 3411 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the applicants and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Seabrook Station, Unit 1, will be located on the applicants' site in Rockingham County, in the

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5. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55 of said regulations; is subject to all applicable provisions of the Act, and rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
- A. The earliest date for the completion of the facility is February 28, 1979, and the latest date for completion is June 30, 1983.
 - B. The facility shall be constructed and located at the site as described in the application, in Rockingham County, in the Town of Seabrook, New Hampshire.
 - C. This construction permit authorizes the applicants to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.
 - D. In view of the fact that the Attorney General has not recommended an antitrust hearing in this matter, that no antitrust issues have been raised by another in a manner according with the Commission's Rules of Practice, and that no finding has been made that an antitrust hearing is otherwise required (10 CFR Part 2 §2.104(d)), antitrust review of the application for this construction permit under Section 105c of the Atomic Energy Act of 1954, as amended, has been completed and a hearing thereon determined to be unnecessary.
 - E. This facility is subject to the following conditions for the protection of the environment.
 - (1) Pursuant to the Initial Decision dated June 29, 1976, the applicants shall comply with any and all appropriate conditions set forth in the FWPCA 401 certificate issued by the State of New Hampshire; however, in the event that EPA should approve a closed-cycle cooling system for Seabrook, on which approval the State of New Hampshire would base and issue a §401 certificate pursuant to FWPCA, then, in that event, the construction permit referred to herein is automatically revoked.
 - (2) The applicants shall provide a description and results of analytical analyses or other studies, and additional current and wind studies being performed so the Staff can confirm the adequacy of the final design of the discharge diffuser;

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- (3) The applicants shall design the plant so as to meet a chlorine design objective of total residual chlorine at the diffuser outfall of no more than 0.1 mg/liter. The applicants shall undertake a study with the objective of determining means to minimize the discharge of total residual chlorine by means which may include but are not limited to mechanical techniques for condenser tube cleaning and determination of minimum chlorination (duration, amount, and frequency) required to achieve the necessary control of organic growths;
- (4) The applicants shall alter the route of the Seabrook-Newington transmission line in the Packer Bog area so as to traverse the Bog;
- (5) The applicants shall alter the route of the Seabrook-Scobie transmission line in the Pow Wow-Cedar Swamp Natural Area so as to conform to the Staff's minimum circumference dogleg, which is formed by a straight extension northward of applicants' B dogleg (PSCO's alternative B dogleg, applicants' Ex. 15 and Figure 4.2 of the FES) until it intersects the Staff's FES dogleg (NRC proposed route, applicants' Ex. 15), and on the west of applicants' B dogleg, by extending that west segment straight on toward the north edge, until it intersects the Staff's FES dogleg;
- (6) The applicants shall supplement the pre- and postoperational FES monitoring program described in the Environmental Report, with amendments, as required by the Staff;
- (7) The applicants shall take the necessary mitigating actions, including those summarized in Section 4.5 of the Final Environmental Statement during construction of the Station and associated transmission lines to avoid unnecessary adverse environmental impacts from construction activities;
- (8) A control program shall be established by the applicants to provide for a periodic review of all construction activities to assure that those activities conform to the environmental conditions as set forth in this permit;
- (9) If unexpected harmful effects or evidences of significant damage are detected during facility construction and operation, the applicants shall provide to the Staff an acceptable analysis of the problem. As a part of the operational monitoring program, applicants shall take

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samples of entrained plankton (organisms) and determine therefrom the relative abundance of key species, such as lobster, finfish, and soft-shelled clam. This monitoring program shall be carried out during the summer months for at least three years.

4. This permit is subject to the limitation that a license authorizing operation of the facility will not be issued by the Commission unless (a) the applicants submit to the Commission the complete Final Safety Analysis Report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; (c) the Commission finds that operation of the facility will be in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements are satisfied; and (d) the applicants submit proof of financial protection and execute an indemnity agreement as required by Section 170 of the Act.
5. This permit is effective as of its date of issuance and shall expire on the latest completion date indicated in paragraph 3.A above.

FOR THE NUCLEAR REGULATORY COMMISSION:

Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Date of Issuance:

July 7, 1976

OFFICE						
SURNAME						
DATE						



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

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
THE UNITED ILLUMINATING COMPANY
CENTRAL MAINE POWER COMPANY
CENTRAL VERMONT PUBLIC SERVICE CORPORATION
THE CONNECTICUT LIGHT AND POWER COMPANY
FITCHBURG GAS AND ELECTRIC LIGHT COMPANY
MONTAUP ELECTRIC COMPANY
NEW BEDFORD GAS & EDISON LIGHT COMPANY
NEW ENGLAND POWER COMPANY
GREEN MOUNTAIN POWER CORPORATION
VERMONT ELECTRIC POWER COMPANY, INC.

DOCKET NO. 50-443

SEABROOK STATION, UNIT 1

CONSTRUCTION PERMIT

Construction Permit No. CPPR-135

- I. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for construction permit complies with the requirements of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission, there is reasonable assurance that the activities authorized by the permit will be conducted in compliance with the rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made;
 - B. The Public Service Company of New Hampshire, The United Illuminating Company, Central Maine Power Company, Central Vermont Public Service Corporation, The Connecticut Light and Power Company, Fitchburg Gas and Electric Company, Montaup Electric Company, New Bedford Gas & Edison Light Company, New England Power Company, Green Mountain Power Corporation, and Vermont Electric Company, Inc. (the applicants) have described the proposed design of the Seabrook Station, Unit 1 (the facility), including, but not limited to the principal architectural and engineering criteria for the design and have identified the major features or components incorporated therein for the protection of the health and safety of the public;
 - C. Such further technical or design information as may be required to complete the safety analysis, and which can reasonably be left for later consideration, will be supplied by the applicants in the final safety analysis report;

- D. There are no safety features or components of the Seabrook facility design which require research and development within the meaning of Section 50.2(n) of 10 CFR Part 50;
 - E. On the basis of the foregoing, there is reasonable assurance that (i) such safety questions will be satisfactorily resolved at or before the latest date stated in the application for completion of construction of the proposed facility and (ii) taking into consideration the site criteria contained in 10 CFR Part 100, the proposed facility can be constructed and operated at the proposed location without undue risk to the health and safety of the public;
 - F. Public Service Company of New Hampshire is technically qualified to design and construct the proposed facility;
 - G. The applicants are financially qualified to design and construct the proposed facility;
 - H. The issuance of a permit for the construction of the facility will not be inimical to the common defense and security or to the health and safety of the public; and
 - I. The requirements of Section 102(2)(A), (C), and (D) of NEPA and of the Commission's regulations implementing NEPA have been complied with in this proceeding.
 - J. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of a construction permit subject to the conditions for protection of the environment set forth herein is in accordance with the Commission's regulations implementing NEPA and all applicable requirements have been satisfied.
2. Pursuant to Section 103 of the Atomic Energy Act of 1975, as amended, (the Act), and Title 10, Chapter 1, Code of Federal Regulations Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated June 29, 1976, the Nuclear Regulatory Commission (the Commission) hereby issues a construction permit to the applicants for a utilization facility designed to operate at 3411 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the applicants and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Seabrook Station, Unit 1, will be located on the applicants' site in Rockingham County, in the Town of Seabrook, New Hampshire.

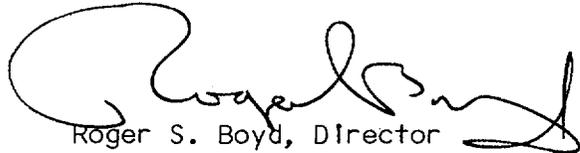
3. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55 of said regulations; is subject to all applicable provisions of the Act, and rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
 - A. The earliest date for the completion of the facility is February 28, 1979, and the latest date for completion is June 30, 1983.
 - B. The facility shall be constructed and located at the site as described in the application, in Rockingham County, in the Town of Seabrook, New Hampshire.
 - C. This construction permit authorizes the applicants to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.
 - D. In view of the fact that the Attorney General has not recommended an antitrust hearing in this matter, that no antitrust issues have been raised by another in a manner according with the Commission's Rules of Practice, and that no finding has been made that an anti-trust hearing is otherwise required (10 CFR Part 2 §2.104(d)), antitrust review of the application for this construction permit under Section 105c of the Atomic Energy Act of 1954, as amended, has been completed and a hearing thereon determined to be unnecessary.
 - E. This facility is subject to the following conditions for the protection of the environment.
 - (1) Pursuant to the Initial Decision dated June 29, 1976, the applicants shall comply with any and all appropriate conditions set forth in the FWPCA 401 certificate issued by the State of New Hampshire; however, in the event that EPA should approve a closed-cycle cooling system for Seabrook, on which approval the State of New Hampshire would base and issue a §401 certificate pursuant to FWPCA, then, in that event, the construction permit referred to herein is automatically revoked.
 - (2) The applicants shall provide a description and results of analytical analyses or other studies, and additional current and wind studies being performed so the Staff can confirm the adequacy of the final design of the discharge diffuser;

- (3) The applicants shall design the plant so as to meet a chlorine design objective of total residual chlorine at the diffuser outfall of no more than 0.1 mg/liter. The applicants shall undertake a study with the objective of determining means to minimize the discharge of total residual chlorine by means which may include but are not limited to mechanical techniques for condenser tube cleaning and determination of minimum chlorination (duration, amount, and frequency) required to achieve the necessary control of organic growths;
- (4) The applicants shall alter the route of the Seabrook-Newington transmission line in the Packer Bog area so as to traverse the Bog;
- (5) The applicants shall alter the route of the Seabrook-Scobie transmission line in the Pow Wow-Cedar Swamp Natural Area so as to conform to the Staff's minimum circumference dogleg, which is formed by a straight extension northward of applicants' B dogleg (PSCO's alternative B dogleg, applicants' Ex. 15 and Figure 4.2 of the FES) until it intersects the Staff's FES dogleg (NRC proposed route, applicants' Ex. 15), and on the west of applicants' B dogleg, by extending that west segment straight on toward the north edge, until it intersects the Staff's FES dogleg;
- (6) The applicants shall supplement the pre- and postoperational FES monitoring program described in the Environmental Report, with amendments, as required by the Staff;
- (7) The applicants shall take the necessary mitigating actions, including those summarized in Section 4.5 of the Final Environmental Statement during construction of the Station and associated transmission lines to avoid unnecessary adverse environmental impacts from construction activities;
- (8) A control program shall be established by the applicants to provide for a periodic review of all construction activities to assure that those activities conform to the environmental conditions as set forth in this permit;
- (9) If unexpected harmful effects or evidences of significant damage are detected during facility construction and operation, the applicants shall provide to the Staff an acceptable analysis of the problem. As a part of the operational monitoring program, applicants shall take

samples of entrained plankton (organisms) and determine therefrom the relative abundance of key species, such as lobster, finfish, and soft-shelled clam. This monitoring program shall be carried out during the summer months for at least three years.

4. This permit is subject to the limitation that a license authorizing operation of the facility will not be issued by the Commission unless (a) the applicants submit to the Commission the complete Final Safety Analysis Report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; (c) the Commission finds that operation of the facility will be in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements are satisfied; and (d) the applicants submit proof of financial protection and execute an indemnity agreement as required by Section 170 of the Act.
5. This permit is effective as of its date of issuance and shall expire on the latest completion date indicated in paragraph 3.A above.

FOR THE NUCLEAR REGULATORY COMMISSION:



Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Date of Issuance:

July 7, 1976

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
THE UNITED ILLUMINATING COMPANY
CENTRAL MAINE POWER COMPANY
CENTRAL VERMONT PUBLIC SERVICE CORPORATION
THE CONNECTICUT LIGHT AND POWER COMPANY
FITCHBURG GAS AND ELECTRIC LIGHT COMPANY
MONTAUP ELECTRIC COMPANY
NEW BEDFORD GAS & EDISON LIGHT COMPANY
NEW ENGLAND POWER COMPANY
GREEN MOUNTAIN POWER CORPORATION
VERMONT ELECTRIC POWER COMPANY, INC.

DOCKET NO. 50-444

SEABROOK STATION, UNIT 2

CONSTRUCTION PERMIT

Construction Permit No. OPRR-156

- I. The Nuclear Regulatory Commission (the Commission) having found that:
- A. The application for construction permit complies with the requirements of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission, there is reasonable assurance that the activities authorized by the permit will be conducted in compliance with the rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made;
 - B. The Public Service Company of New Hampshire, The United Illuminating Company, Central Maine Power Company, Central Vermont Public Service Corporation, The Connecticut Light and Power Company, Fitchburg Gas and Electric Company, Montaup Electric Company, New Bedford Gas & Edison Light Company, New England Power Company, Green Mountain Power Corporation, and Vermont Electric Company, Inc. (the applicants) have described the proposed design of the Seabrook Station, Unit 1 (the facility), including, but not limited to the principal architectural and engineering criteria for the design and have identified the major features or components incorporated therein for the protection of the health and safety of the public;
 - C. Such further technical or design information as may be required to complete the safety analysis, and which can reasonably be left for later consideration, will be supplied by the applicants in the final safety analysis report;

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SURNAME →	C. Moon	D. Vassallo	[Signature]	KARNAN	R. DeLong	R. Boyd
DATE →	7/7/76	7/7/76	7/7/76	7/7/76	7/7/76	7/7/76

- D. There are no safety features or components of the Seabrook facility design which require research and development within the meaning of Section 50.2(n) of 10 CFR Part 50;
- E. On the basis of the foregoing, there is reasonable assurance that (i) such safety questions will be satisfactorily resolved at or before the latest date stated in the application for completion of construction of the proposed facility and (ii) taking into consideration the site criteria contained in 10 CFR Part 100, the proposed facility can be constructed and operated at the proposed location without undue risk to the health and safety of the public;
- F. Public Service Company of New Hampshire is technically qualified to design and construct the proposed facility;
- G. The applicants are financially qualified to design and construct the proposed facility;
- H. The issuance of a permit for the construction of the facility will not be inimical to the common defense and security or to the health and safety of the public; and
- I. The requirements of Section 102(2)(A), (C), and (D) of NEPA and of the Commission's regulations implementing NEPA have been complied with in this proceeding.
- J. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of a construction permit subject to the conditions for protection of the environment set forth herein is in accordance with the Commission's regulations implementing NEPA and all applicable requirements have been satisfied.

2. Pursuant to Section 103 of the Atomic Energy Act of 1975, as amended, (the Act), and Title 10, Chapter 1, Code of Federal Regulations Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated June 29, 1976, the Nuclear Regulatory Commission (the Commission) hereby issues a construction permit to the applicants for a utilization facility designed to operate at 3411 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the applicants and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Seabrook Station, Unit 2, will be located on the applicants' site in Rockingham County, in the Town of Seabrook, New Hampshire.

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3. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55 of said regulations; is subject to all applicable provisions of the Act, and rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
- A. The earliest date for the completion of the facility is January 31, 1981, and the latest date for completion is October 31, 1984.
 - B. The facility shall be constructed and located at the site as described in the application, in Rockingham County, in the Town of Seabrook, New Hampshire.
 - C. This construction permit authorizes the applicants to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.
 - D. In view of the fact that the Attorney General has not recommended an antitrust hearing in this matter, that no antitrust issues have been raised by another in a manner according with the Commission's Rules of Practice, and that no finding has been made that an anti-trust hearing is otherwise required (10 CFR Part 2 §2.104(d)), antitrust review of the application for this construction permit under Section 105c of the Atomic Energy Act of 1954, as amended, has been completed and a hearing thereon determined to be unnecessary.
 - E. This facility is subject to the following conditions for the protection of the environment.
 - (1) Pursuant to the Initial Decision dated June 29, 1976, the applicants shall comply with any and all appropriate conditions set forth in the FWPCA 401 certificate issued by the State of New Hampshire; however, in the event that EPA should approve a closed-cycle cooling system for Seabrook, on which approval the State of New Hampshire would base and issue a 401 certificate pursuant to FWPCA, then, in that event, the construction permit referred to herein is automatically revoked.
 - (2) The applicants shall provide a description and results of analytical analyses or other studies, and additional current and wind studies being performed so the Staff can confirm the adequacy of the final design of the discharge diffuser;

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- (3) The applicants shall design the plant so as to meet a chlorine design objective of total residual chlorine at the diffuser outfall of no more than 0.1 mg/liter. The applicants shall undertake a study with the objective of determining means to minimize the discharge of total residual chlorine by means which may include but are not limited to mechanical techniques for condenser tube cleaning and determination of minimum chlorination (duration, amount, and frequency) required to achieve the necessary control of organic growths;
- (4) The applicants shall alter the route of the Seabrook-Newington transmission line in the Packer Bog area so as to traverse the Bog;
- (5) The applicants shall alter the route of the Seabrook-Scobie transmission line in the Pow Wow-Cedar Swamp Natural Area so as to conform to the Staff's minimum circumference dogleg, which is formed by a straight extension northward of applicants' B dogleg (PSCU's alternative B dogleg, applicants' Ex. 15 and Figure 4.2 of the FES) until it intersects the Staff's FES dogleg (NRC proposed route, applicants' Ex. 15), and on the west of applicants' B dogleg, by extending that west segment straight on toward the north edge, until it intersects the Staff's FES dogleg;
- (6) The applicants shall supplement the pre- and postoperational FES monitoring program described in the Environmental Report, with amendments, as required by the Staff;
- (7) The applicants shall take the necessary mitigating actions, including those summarized in Section 4.5 of the Final Environmental Statement during construction of the Station and associated transmission lines to avoid unnecessary adverse environmental impacts from construction activities;
- (8) A control program shall be established by the applicants to provide for a periodic review of all construction activities to assure that those activities conform to the environmental conditions as set forth in this permit;
- (9) If unexpected harmful effects or evidences of significant damage are detected during facility construction and operation, the applicants shall provide to the Staff an acceptable analysis of the problem. As a part of the operational monitoring program, applicants shall take

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samples of entrained plankton (organisms) and determine therefrom the relative abundance of key species, such as lobster, finfish, and soft-shelled clam. This monitoring program shall be carried out during the summer months for at least three years.

4. This permit is subject to the limitation that a license authorizing operation of the facility will not be issued by the Commission unless (a) the applicants submit to the Commission the complete Final Safety Analysis Report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; (c) the Commission finds that operation of the facility will be in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements are satisfied; and (d) the applicants submit proof of financial protection and execute an indemnity agreement as required by Section 170 of the Act.
5. This permit is effective as of its date of issuance and shall expire on the latest completion date indicated in paragraph 3.A above.

FOR THE NUCLEAR REGULATORY COMMISSION:

Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Date of Issuance:

July 7, 1976

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DATE ➤						



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

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
THE UNITED ILLUMINATING COMPANY
CENTRAL MAINE POWER COMPANY
CENTRAL VERMONT PUBLIC SERVICE CORPORATION
THE CONNECTICUT LIGHT AND POWER COMPANY
FITCHBURG GAS AND ELECTRIC LIGHT COMPANY
MONTAUP ELECTRIC COMPANY
NEW BEDFORD GAS & EDISON LIGHT COMPANY
NEW ENGLAND POWER COMPANY
GREEN MOUNTAIN POWER CORPORATION
VERMONT ELECTRIC POWER COMPANY, INC.

DOCKET NO. 50-444

SEABROOK STATION, UNIT 2

CONSTRUCTION PERMIT

Construction Permit No. CPPR-136

- I. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for construction permit complies with the requirements of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission, there is reasonable assurance that the activities authorized by the permit will be conducted in compliance with the rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made;
 - B. The Public Service Company of New Hampshire, The United Illuminating Company, Central Maine Power Company, Central Vermont Public Service Corporation, The Connecticut Light and Power Company, Fitchburg Gas and Electric Company, Montaup Electric Company, New Bedford Gas & Edison Light Company, New England Power Company, Green Mountain Power Corporation, and Vermont Electric Company, Inc. (the applicants) have described the proposed design of the Seabrook Station, Unit 1 (the facility), including, but not limited to the principal architectural and engineering criteria for the design and have identified the major features or components incorporated therein for the protection of the health and safety of the public;
 - C. Such further technical or design information as may be required to complete the safety analysis, and which can reasonably be left for later consideration, will be supplied by the applicants in the final safety analysis report;

- D. There are no safety features or components of the Seabrook facility design which require research and development within the meaning of Section 50.2(n) of 10 CFR Part 50;
 - E. On the basis of the foregoing, there is reasonable assurance that (i) such safety questions will be satisfactorily resolved at or before the latest date stated in the application for completion of construction of the proposed facility and (ii) taking into consideration the site criteria contained in 10 CFR Part 100, the proposed facility can be constructed and operated at the proposed location without undue risk to the health and safety of the public;
 - F. Public Service Company of New Hampshire is technically qualified to design and construct the proposed facility;
 - G. The applicants are financially qualified to design and construct the proposed facility;
 - H. The issuance of a permit for the construction of the facility will not be inimical to the common defense and security or to the health and safety of the public; and
 - I. The requirements of Section 102(2)(A), (C), and (D) of NEPA and of the Commission's regulations implementing NEPA have been complied with in this proceeding.
 - J. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of a construction permit subject to the conditions for protection of the environment set forth herein is in accordance with the Commission's regulations implementing NEPA and all applicable requirements have been satisfied.
2. Pursuant to Section 103 of the Atomic Energy Act of 1975, as amended, (the Act), and Title 10, Chapter 1, Code of Federal Regulations Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated June 29, 1976, the Nuclear Regulatory Commission (the Commission) hereby issues a construction permit to the applicants for a utilization facility designed to operate at 3411 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the applicants and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Seabrook Station, Unit 2, will be located on the applicants' site in Rockingham County, in the Town of Seabrook, New Hampshire.

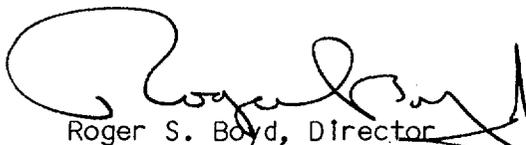
3. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55 of said regulations; is subject to all applicable provisions of the Act, and rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
 - A. The earliest date for the completion of the facility is January 31, 1981, and the latest date for completion is October 31, 1984.
 - B. The facility shall be constructed and located at the site as described in the application, in Rockingham County, in the Town of Seabrook, New Hampshire.
 - C. This construction permit authorizes the applicants to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.
 - D. In view of the fact that the Attorney General has not recommended an antitrust hearing in this matter, that no antitrust issues have been raised by another in a manner according with the Commission's Rules of Practice, and that no finding has been made that an antitrust hearing is otherwise required (10 CFR Part 2 §2.104(d)), antitrust review of the application for this construction permit under Section 105c of the Atomic Energy Act of 1954, as amended, has been completed and a hearing thereon determined to be unnecessary.
 - E. This facility is subject to the following conditions for the protection of the environment.
 - (1) Pursuant to the Initial Decision dated June 29, 1976, the applicants shall comply with any and all appropriate conditions set forth in the FWPCA 401 certificate issued by the State of New Hampshire; however, in the event that EPA should approve a closed-cycle cooling system for Seabrook, on which approval the State of New Hampshire would base and issue a §401 certificate pursuant to FWPCA, then, in that event, the construction permit referred to herein is automatically revoked.
 - (2) The applicants shall provide a description and results of analytical analyses or other studies, and additional current and wind studies being performed so the Staff can confirm the adequacy of the final design of the discharge diffuser;

- (3) The applicants shall design the plant so as to meet a chlorine design objective of total residual chlorine at the diffuser outfall of no more than 0.1 mg/liter. The applicants shall undertake a study with the objective of determining means to minimize the discharge of total residual chlorine by means which may include but are not limited to mechanical techniques for condenser tube cleaning and determination of minimum chlorination (duration, amount, and frequency) required to achieve the necessary control of organic growths;
- (4) The applicants shall alter the route of the Seabrook-Newington transmission line in the Packer Bog area so as to traverse the Bog;
- (5) The applicants shall alter the route of the Seabrook-Scobie transmission line in the Pow Wow-Cedar Swamp Natural Area so as to conform to the Staff's minimum circumference dogleg, which is formed by a straight extension northward of applicants' B dogleg (PSCO's alternative B dogleg, applicants' Ex. 15 and Figure 4.2 of the FES) until it intersects the Staff's FES dogleg (NRC proposed route, applicants' Ex. 15), and on the west of applicants' B dogleg, by extending that west segment straight on toward the north edge, until it intersects the Staff's FES dogleg;
- (6) The applicants shall supplement the pre- and postoperational FES monitoring program described in the Environmental Report, with amendments, as required by the Staff;
- (7) The applicants shall take the necessary mitigating actions, including those summarized in Section 4.5 of the Final Environmental Statement during construction of the Station and associated transmission lines to avoid unnecessary adverse environmental impacts from construction activities;
- (8) A control program shall be established by the applicants to provide for a periodic review of all construction activities to assure that those activities conform to the environmental conditions as set forth in this permit;
- (9) If unexpected harmful effects or evidences of significant damage are detected during facility construction and operation, the applicants shall provide to the Staff an acceptable analysis of the problem. As a part of the operational monitoring program, applicants shall take

samples of entrained plankton (organisms) and determine therefrom the relative abundance of key species, such as lobster, finfish, and soft-shelled clam. This monitoring program shall be carried out during the summer months for at least three years.

4. This permit is subject to the limitation that a license authorizing operation of the facility will not be issued by the Commission unless (a) the applicants submit to the Commission the complete Final Safety Analysis Report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; (c) the Commission finds that operation of the facility will be in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements are satisfied; and (d) the applicants submit proof of financial protection and execute an indemnity agreement as required by Section 170 of the Act.
5. This permit is effective as of its date of issuance and shall expire on the latest completion date indicated in paragraph 3.A above.

FOR THE NUCLEAR REGULATORY COMMISSION:



Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Date of Issuance:

July 7, 1976