



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

JUN 10 1986

Docket Nos. 50-443  
and 50-444

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

Dear Mr. Harrison:

SUBJECT: ISSUANCE OF AMENDMENTS TO CONSTRUCTION PERMITS CPPR-135  
AND CPPR-136 - SEABROOK STATION, UNITS 1 AND 2

The Nuclear Regulatory Commission has issued the enclosed Amendments No. 7 to Construction Permits CPPR-135 and CPPR-136 for the Seabrook Station, Units 1 and 2, located in Rockingham County, New Hampshire. The amendments are in response to your letters, dated August 9, 1984, February 1, 1985, and July 10, 1985, concerning the partial exemption from General Design Criterion (GDC) 4 of 10 CFR 50, Appendix A.

You should note that effective May 12, 1986, General Design Criteria (GDC) 4 of Appendix A to 10 CFR 50 has been modified to exclude from the design basis the protection of structures, systems and components against the dynamic effects associated with postulated pipe ruptures of primary coolant loop piping in PWRs when analyses demonstrate the probability of rupture of such piping to be extremely low under design basis conditions (51 FR 12502 April 11, 1986). However, the exemption to which this amendment relates was granted by the NRC on November 22, 1985, which was before the effective date of the rule change.

A copy of the safety evaluation supporting Amendment No. 7 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

8606200254 860610  
PDR ADDCK 05000443  
A PDR

Enclosures:

1. Amendment No. 7 to CPPR-135 & CPPR-136
2. Safety Evaluation
3. Federal Register Notice

cc with enclosure:  
See next page

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You should note that effective May 12, 1986, General Design Criteria (GDC) 4 of Appendix A to 10 CFR 50 has been modified to exclude from the design basis the protection of structures, systems and components against the dynamic effects associated with postulated pipe ruptures of primary coolant loop piping in PWRs when analyses demonstrate the probability of rupture of such piping to be extremely low under design basis conditions (51 FR 12502 April 11, 1986). However, the exemption to which their amendment relates was granted by the NRC on November 22, 1985, which was before this effective date of the rule change.

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15/  
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PWR Project Directorate #5  
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\* See next page for previous concurrences

See next page

Distribution:

Docket Files

NRC PDR

PD#5 R/F

OELD

E. Jordan

B. Grimes

M. Rushbrook

ACRS (10)

J. Partlow

T. Novak

OFC	:PD#5	:PD#5	:OELD*	:OELD	:DIR:PD#5	:
NAME	:MRushbrook*	:VNerses*	:	:VScinto	:VSNoonan	:
DATE	: 3/19/86	: 4/18/86	: 5/09/86	: 6/2/86	: 5/9/86	:

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You should note that effective May 12, 1986, General Design Criteria (GDC) 4 of Appendix A to 10 CFR 50 has been modified to exclude from the design basis the protection of structures, systems and components against the dynamic effects associated with postulated pipe ruptures of primary coolant loop piping in PWRs when analyses demonstrate the probability of rupture of such piping to be extremely low under design basis conditions (51 FR 12502 April 11, 1986). However, the exemption to which their amendment relates was granted by the NRC on November 22, 1985, which was before the effective date of was granted by the NRC on November 22, 1985, which was before the effective date, of the rule change.

A copy of the safety evaluation supporting Amendment No. 7 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

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Vincent S. Noonan, Director  
PWR Project Directorate #5  
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NAME	: MRushbrook*	: VNerses*	:	: JScinto	: VSNoonan	:	:
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You should note that effective May 12, 1986, General Design Criteria (GDC) 4 of Appendix A to 10 CFR 50 has been modified to exclude from the design basis the protection of structures, systems and components against the dynamic effects associated with postulated pipe ruptures of primary coolant loop piping in PWRs when analyses demonstrate the probability of rupture of such piping to be extremely low under design basis conditions (51 FR 12502 April 11, 1986). However, ~~since the exemption was granted by the NRC on November 22, 1985, which was before the effective date, these amendments to modify the construction permits are issued for legal record.~~

*to which  
the  
amendment  
relates*

*of the rule  
change.*

A copy of the safety evaluation supporting Amendment No. 7 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

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M. Rushbrook  
ACRS (10)  
J. Partlow  
T. Novak

*See  
Changes  
in letter  
5/20/86*

OFC : PD#5	: PD#5	: OELD*	: OELD	: DIR: PD#5	:	:
NAME : MRushbrook*	: VNerses*	:	: JScinto	: VSNoonan	:	:
DATE : 3/19/86	: 4/18/86	: 5/09/86	: / /86	: 5/9/86	:	:

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ACRS (10)

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NAME	: MRushbrook	: VNerses	: JScinto	: VSNoonan	:	:	:
DATE	: 2/1/86	: 4/10/86	: 5/09/86	: 1/1/86	: 1/1/86	:	:

*objection*  
*Sherwin Turk*

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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.  
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Boston, Massachusetts 02110

Mr. Bruce B. Beckley, Project Manager  
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Harmon, Weiss & Jordan  
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New Hampshire  
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Seabrook, New Hampshire 03874

Seacoast Anti-Pollution League  
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Portsmouth, New Hampshire 03801

Mr. Diana P. Randall  
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Seabrook, New Hampshire 03874

Richard Hampe, Esq.  
New Hampshire Civil Defense Agency  
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G. Dana Bisbee, Esq.  
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Office of Attorney General  
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Resident Inspector  
Seabrook Nuclear Power Station  
c/o US Nuclear Regulatory Commission  
Post Office Box 700  
Seabrook, New Hampshire 03874

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

Mr. A. M. Ebner, Project Manager  
United Engineers & Constructors  
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Philadelphia, Pennsylvania 19101

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

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

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

APR 7 1986



Public Service Company of  
New Hampshire

- 2 -

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

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

SEABROOK - OTHER

JUN 10 1986

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  
26 Pleasant Street  
Concord, New Hampshire 03301

Chairman  
Massachusetts Department of Public Utilities  
100 Cambridge Street  
Boston, Massachusetts 02202

Federal Energy Regulatory Commission  
825 North Capitol Street, N. E.  
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 (SSERS)  
Radiation Facility  
U. S. EPA  
P. O. Box 3009  
Montgomery, Alabama 36193

EIS Review Coordinator  
EPA Region I  
JFK Federal Building  
Boston, Massachusetts 02203



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

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE ET. AL\*

DOCKET NO. 50-443

SEABROOK STATION, UNIT 1

AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 7  
Construction Permit No. CPPR-135

1. The Nuclear Regulatory Commission (the Commission) having found that:
  - A. The application for amendment filed by Public Service Company of New Hampshire on behalf of itself and the other applicants\*, in a letter, dated August 9, 1984, February 1, 1985, and July 10, 1985 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations set forth in 10 CFR Chapter I;
  - B. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - C. The issuance of this amendment will not result in any environmental impacts not previously considered.
2. Accordingly, Construction Permit No. CPPR-135 is amended as follows:
  - A. Change paragraph 3 to read:
    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, and orders of the Commission now or hereafter in effect, as modified by duly authorized exemptions; and is subject to the conditions specified or incorporated below:
  - B. Change paragraph 3.C to read:

This construction permit authorizes the applicant to construct the facility described in the application (as modified by duly

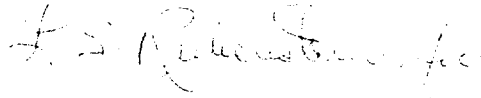
\*The current construction permit holders for Seabrook Station are: Bangor Hydro-Electric Company, Canal Electric Company, Central Maine Power Company, Central Vermont Public Service Corporation, Connecticut Light & Power Company, Fitchburg Gas & Electric Light Company, Hudson Light and Power Department, Maine Public Service Company, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, New Hampshire Electric Cooperative, Inc., Public Service Company of New Hampshire, Taunton Municipal Lighting Plant, the United Illuminating Company, Vermont Electric Generation and Transmission Cooperative, Inc., and Washington Electric Cooperative, Inc.

8606200259 860610  
PDR ADOCK 05000443  
A PDR

authorized exemptions) and in the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Date of Issuance: JUN 10 1985

authorized exemptions) and in the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:  
Thomas M. Novak

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

Date of Issuance: **JUN 10 1986**

\* See next page for previous concurrences

OFC : PD#5	: PD#5	: OELD	: OELD	: DIR: PD#5	: AD: PWR-A	:
NAME : MRushbrook*	: VNerses*	: Sherwin Turk	: Scinto	: VSNoonan	: TMNovak	:
DATE : 3/28/86	: 4/18/86	: 5/10/86	: 1/86	: 5/19/86	: 6/10/86	:

*Handwritten notes:* "second objection" above "OELD"; "no legal objection" above "Sherwin Turk"; "L. Rubenstein" above "TMNovak".

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3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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

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OFC	: PD#5	: PD#5	: OELD	: OELD	: DIR: PD#5	: AD: PWR-A	:
NAME	: MRushorook*	: VNerses*	: Sherwin Turk	: JScinto	: VSNoonan	: L. Rabenstein	:
DATE	: 3/19/86	: 4/18/86	: 5/09/86	: 1 / 86	: 5/9/86	: 6/1/86	:

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3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Date of Issuance:

*[A large handwritten 'X' is drawn across the signature area and the date field.]*

OFC	: PD#5	: PD#5	: OELD	: OELD	: DIR: PD#5	: AD: PWR-A	:
NAME	: MRushbrook	: VVersas	:	: JScinto	: VSNoonan	: TMNovak	:
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE ET. AL\*

DOCKET NO. 50-444

SEABROOK STATION, UNIT 2

AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 7

Construction Permit No. CPPR-136

1. The Nuclear Regulatory Commission (the Commission) having found that:
  - A. The application for amendment filed by Public Service Company of New Hampshire on behalf of itself and the other applicants\*, in a letter, dated August 9, 1984, February 1, 1985, and July 10, 1985, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations set forth in 10 CFR Chapter I;
  - B. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - C. The issuance of this amendment will not result in any environmental impacts not previously considered.
2. Accordingly, Construction Permit No. CPPR-136 is amended as follows:
  - A. Change paragraph 3 to read:
    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, and orders of the Commission now or hereafter in effect, as modified by duly authorized exemptions; and is subject to the conditions specified or incorporated below:
  - B. Change paragraph 3.C to read:

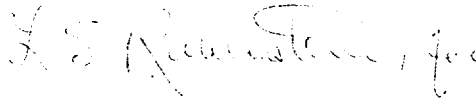
This construction permit authorizes the applicant to construct the facility described in the application (as modified by duly

\*The current construction permit holders for Seabrook Station are: Bangor Hydro-Electric Company, Canal Electric Company, Central Maine Power Company, Central Vermont Public Service Corporation, Connecticut Light & Power Company, Fitchburg Gas & Electric Light Company, Hudson Light and Power Department, Maine Public Service Company, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, New Hampshire Electric Cooperative, Inc., Public Service Company of New Hampshire, Taunton Municipal Lighting Plant, the United Illuminating Company, Vermont Electric Generation and Transmission Cooperative, Inc., and Washington Electric Cooperative, Inc.

authorized exemptions) and in the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in dark ink, appearing to read "T. M. Novak", is written over the printed name.

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

Date of Issuance: JUN 10 1986

SAFETY EVALUATION BY THE OFFICE NUCLEAR REACTOR REGULATION  
RELATING TO AMENDMENT NO. 7 TO CONSTRUCTION PERMITS CPPR-135 AND CPPR-136

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

SEABROOK STATION, UNITS 1 AND 2

DOCKET NOS. 50-443 AND 50-444

INTRODUCTION

By letters dated August 9, 1984, February 1, 1985, and July 10, 1985, Public Service Company of New Hampshire (applicant) on behalf of itself and its joint owners\* requested an amendment to Construction Permit CPPR-135 and Construction Permit CPPR-136 to incorporate the partial Exemption pertaining to General Design Criterion (GDC) 4 of 10 CFR 50, Appendix A. The limited scheduler exemption granted by the Commission permits the applicants to eliminate the installation of protective devices and the consideration of the dynamic effects and loading conditions associated with postulated pipe breaks in the four primary loops in the Seabrook Station, Units 1 and 2 primary coolant system for a period ending at the completion of the second refueling outage, pending the outcome of rulemaking on this subject. The February 1, 1985 letter also included an analysis of the occupational radiation dose reduction which constituted a value-impact analysis associated with the exemption request. The value-impact analysis together with the technical information contained in Westinghouse Report WCAP-10567, provide a comprehensive justification in support of applicant's request for a partial exemption from the requirements of GDC-4.

EVALUATION

The staff's detailed evaluation and basis for granting the partial exemption to the requirements of GDC-4 are delineated in the Exemption enclosed with the staff's November 22, 1985, letter. A summary of the staff's evaluation findings and conclusions are immediately below.

SUMMARY OF EVALUATION FINDINGS

From its evaluation of the analysis contained in Westinghouse Report WCAP-10567 for the Seabrook Station, Units 1 and 2, the staff found that the applicants presented an acceptable technical justification which adequately addressed the staff's evaluation criteria, to: (1) eliminate the need to postulate longitudinal and circumferential pipe breaks in the reactor coolant loop (RCL) piping (hot leg, cold leg, and cross over leg piping); (2) eliminate the

\*The current construction permit holders for Seabrook Station are: Bangor Hydro-Electric Company, Canal Electric Company, Central Maine Power Company, Central Vermont Public Service Corporation, Connecticut Light & Power Company, Fitchburg Gas & Electric Light Company, Hudson Light and Power Department, Maine Public Service Company, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, New Hampshire Electric Cooperative, Inc., Public Service Company of New Hampshire, Taunton Municipal Lighting Plant, the United Illuminating Company, Vermont Electric Generation and Transmission Cooperative, Inc., and Washington Electric Cooperative, Inc.

need to install associated pipe whip restraints in the RCL primary piping and (3) eliminate the requirement to analyze and design for the dynamic effects of these breaks including jet impingement, reactor cavity pressurization and load combination assumptions.

This finding does not in any way affect the design bases for the containment, the emergency core cooling system, environmental qualification, engineered safety feature systems response, or the design of the Reactor Coolant System (RCS) heavy components support. This finding is predicated on the fact that each of the parameters evaluated for Seabrook Station, Units 1 and 2 is enveloped by the generic analysis performed by Westinghouse, contained in Westinghouse Report WCAP-9558, Revision 2, and accepted by the staff in Enclosure (1) to NRC Generic Letter 84-04 (February 1, 1984). Specifically, the NRC determined that:

- (1) The loads associated with the highest stressed location in the main loop primary coolant system piping are 2332 kips (axial), 37,045 in-kips (bending moment) and result in maximum stresses of about 97% of the bounding stress used by Westinghouse in Reference 1. Further, these loads are approximately 88% of those established by the staff as limits.
- (2) For Westinghouse plants, there is no history of cracking failure in reactor primary coolant system loop piping. The Westinghouse reactor coolant system primary loop has an operating history which demonstrates its inherent stability. This includes a low susceptibility to cracking failure from the effects of corrosion (e.g. intergranular stress corrosion cracking), water hammer, or fatigue (low and high cycle). This operating history totals over 400 reactor-years, including five (5) plants each having 15 years of operation and 15 other plants with over 10 years of operation.
- (3) The leak rate calculations performed for the Seabrook plants using an initial through-wall crack of 7.5 inches are identical to those of Enclosure 1 Reference 2. The Seabrook Station has an RCS pressure boundary leak detection system which is consistent with the guidelines of Regulatory Guide 1.45, and it can detect leakage of one (1) gpm in one hour. The calculated leak rate through the postulated flaw results in a factor of at least 10 relative to the sensitivity of the Seabrook plants' leak detection system.
- (4) The margin in terms of load based on fracture mechanics analyses for the leakage-sized crack under normal plus SSE loads is within the bounds calculated by the staff in Section 4.2.3 of Enclosure 1 to Reference 2. Based on a load-limit analysis, the load margin is about 2.0 and based on the J-limit, the margin is at least 1.1.

- (5) The margin between the leakage-size crack and the critical-size crack was calculated by a limit-load analysis. Again, the results demonstrated that a margin of at least 3 on crack size exists and is within the bounds of Section 4.2.3 of Enclosure 1 to Reference 2.
- (6) In addition to the wrought stainless steel pipes, the Seabrook plants have cast stainless steel fittings and associated welds in the RCS. As an integral part of its review, the staff's evaluation of the material properties data of Reference 3 is enclosed as Appendix I in the Exemption enclosed with the staff's November 22, 1985 letter. In Reference 3, data for ten (10) plants are presented and lower bound or "worst case" material properties were identified and used in the analysis performed in the Reference 4 report by Westinghouse. The applied J for the Seabrook plants in Reference 4 for cast stainless steel fittings was less than 3000 in-lb/in<sup>2</sup>. Hence the staff's upper bound 3000 in-lb/in<sup>2</sup> on the applied J (refer to Appendix I, page 6) was not exceeded.

#### ENVIRONMENTAL ASSESSMENT

In advance of issuing the Exemption, the Commission published in the Federal Register on November 19, 1985 (50FR 47468) an "Environmental Assessment and Finding of No Significant Impact." It was stated in that assessment that the planned Exemption action would not have a significant effect on the quality of the human environment. The Exemption granted involves design features located entirely within the plant restricted area as defined in 10 CFR Part 20; does not affect plant radioactive and non-radioactive effluents; has no other environmental impact and does not involve the use of resources not previously considered in the Final Environmental Statement (construction permit) for Seabrook Station, Units 1 and 2.

The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has determined that the amendments involve no significant hazards considerations. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22 (c) (9). Pursuant to 10 CFR 51.22 (b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

#### CONCLUSION

In granting the limited scheduler Exemption, the staff found that the advanced fracture mechanics techniques used by the applicants provided assurance that flaws in primary system piping will be detected before they reach a size that could lead to unstable crack growth. For this reason, further protection

provided by protective devices against the dynamic effects resulting from the discharge from postulated breaks in the primary piping is unnecessary. Additionally, consideration of such dynamic effects associated with previously postulated pipe breaks is unnecessary. With full protection against dynamic effects provided by advanced analysis techniques, and based on the considerations discussed above, we conclude that: (1) the proposed amendments to Construction Permits CPPR-135 and CPPR-136 permitting the use of the Exemption in construction of Seabrook Station, Units 1 and 2 do not involve a significant increase in the probability or consequences of accidents previously considered, do not create the possibility of an accident of a type different from any evaluated previously, do not involve a significant decrease in a safety margin, and thus do not involve a significant hazards consideration; (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner; and (3) such activities will be in compliance with the Commission's regulations, and the issuance of the amendments will not be inimical to the common defense and security, or to the health and safety of the public.

Date of Issuance: **JUN 10 1986**

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Date of Issuance: JUN 10 1986

\* See next page for previous concurrences

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amendments to Construction Permits permits CPPR-135 and CPPR-136 permitting the use of the Exemption in construction of Seabrook Station, Units 1 and 2 does not involve a significant increase in the probability or consequences of accidents previously considered, do not create the possibility of an accident of a type different from any evaluated previously, do not involve a significant decrease in a safety margin, and thus do not involve a significant hazards consideration; (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner; and (3) such activities will be in compliance with the Commission's regulations, and the issuance of the amendments will not be inimical to the common defense and security, or to the health and safety of the public.

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## LIST OF REFERENCES

- (1) Mechanistic Fracture Evaluation of Reactor Coolant Pipe Containing a Postulated Circumferential Throughwall Crack, WCAP-9558, Rev. 2, May 1981, Westinghouse Class 2 proprietary.
- (2) NRC Generic Letter 84-04, "Safety Evaluation of Westinghouse Topical Reports Dealing with Elimination of Postulated Breaks in PWR Primary Main Loops," February 1, 1984.
- (3) Westinghouse Report WCAP-10456, "The Effects of Thermal Aging on the Structural Integrity of Cast Stainless Steel Piping for Westinghouse Nuclear Steam Supply Systems," November 1983, Westinghouse Class 2 proprietary.
- (4) Westinghouse Report WCAP-10567, "Technical Bases for Eliminating Large Primary Loop Pipe Ruptures as the Structural Design Basis for Seabrook Station, Units 1 and 2," June 1984, Westinghouse Class 2 proprietary.

UNITED STATES NUCLEAR REGULATORY COMMISSION  
DOCKET NOS. 50-443 AND 50-444  
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE, ET.AL\*  
NOTICE OF ISSUANCE OF AMENDMENT TO CONSTRUCTION PERMITS

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 7 to Construction Permits Nos. CPPR-135 and CPPR-136 for the Seabrook Station, Units 1 and 2. The amendments modify the construction permits to reflect issuance, by the Commission, of an Exemption, dated November 22, 1985, from the requirements of 10 CFR part 50, Appendix A, General Design Criterion 4 with respect to installation of certain protective devices and consideration of certain dynamic effects.

Effective May 12, 1986, General Design Criteria (GDC) 4 of Appendix A to 10 CFR 50 has been modified to exclude from the design basis the protection of structures, systems, and components against the dynamic effects associated with postulated pipe ruptures of primary coolant loop piping in PWRs when analyses demonstrate the probability of rupture of such piping to be extremely low under design basis conditions (51 FR 12502 April 11, 1986). However, the exemption to which this amendment relates was granted by the NRC on November 22, 1985, which was before the effective date of the rule change. The amendments are effective as of the date of issuance.

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

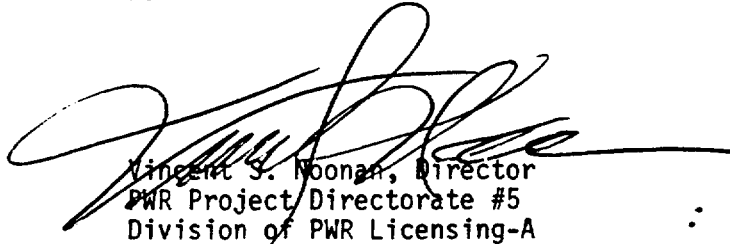
\*The current construction permit holders for Seabrook Station are: Bangor Hydro-Electric Company, Canal Electric Company, Central Maine Power Company, Central Vermont Public Service Corporation, Connecticut Light & Power Company, Fitchburg Gas & Electric Light Company, Hudson Light and Power Department, Maine Public Service Company, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, New Hampshire Electric Cooperative, Inc., Public Service Company of New Hampshire, Taunton Municipal Lighting Plant, the United Illuminating Company, Vermont Electric Generation and Transmission Cooperative, Inc., and Washington Electric Cooperative, Inc.

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 is set forth in the amendments. Prior public notice of these amendments were not required, since the amendments do not involve a significant hazards consideration.

For further details with respect to the action, see (1) the application for amendments dated August 9, 1984, February 1, 1985, and July 10, 1985, (2) Amendments No. 7 to Construction Permits CPPR-135 and CPPR-136, (3) the Commission's related Safety Evaluation, (4) the Exemption dated November 22, 1985, and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated November 12, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W. Washington, DC 20555, and at the Local Public Document Room at Exeter Public Library, Front Street, Exeter, New Hampshire 03833. In addition, a copy of items (2), (3), (4), and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, DC 20555, Attention: Director, Division of PWR Licensing-A, Office of Nuclear Reactor Regulation.

Dated at Bethesda, Maryland, this 9<sup>th</sup> day of June, 1986

FOR THE NUCLEAR REGULATORY COMMISSION

  
Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

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 is set forth in the amendments. Prior public notice of these amendments were not required, since the amendments do not involve a significant hazards consideration.

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Dated at Bethesda, Maryland, this 9<sup>th</sup> day of June, 1986

FOR THE NUCLEAR REGULATORY COMMISSION

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Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

\* See next page for previous concurrences

*John Santu saw [unclear] made some change as letter*

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Dated at Bethesda, Maryland, this                      day of                      1986

FOR THE NUCLEAR REGULATORY COMMISSION

Janice A. Stevens, Acting Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

\* See next page for previous concurrences

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For further details with respect to the action, see (1) the application for amendments dated August 9, 1984, February 1, 1985, and July 10, 1985, (2) Amendments No. 7 to Construction Permits CPPR-135 and CPPR-136, (3) the Commission's related Safety Evaluation, (4) the Exemption dated November 22, 1985, and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated November 12, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W. Washington, DC 20555, and at the Local Public Document Room at Exeter Public Library, Front Street, Exeter, New Hampshire 03833. In addition, a copy of items (2), (3), (4), and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, DC 20555, Attention: Director, Division of PWR Licensing-A, Office of Nuclear Reactor Regulation.

Dated at Bethesda, Maryland, this                      day of                      1986

FOR THE NUCLEAR REGULATORY COMMISSION

\* See next page for previous concurrences

Elizabeth L. Doolittle, Acting Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

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For further details with respect to the action, see (1) the application for amendments dated August 9, 1984, February 1, 1985, and July 10, 1985, (2) Amendments No. 7 to Construction Permits CPPR-135 and CPPR-136, (3) the Commission's related Safety Evaluation, (4) the Exemption dated November 22, 1985, and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated November 12, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W. Washington, DC 20555, and at the Local Public Document Room at Exeter Public Library, Front Street, Exeter, New Hampshire 03833. In addition, a copy of items (2), (3), (4), and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, DC 20555, Attention: Director, Division of PWR Licensing-A, Office of Nuclear Reactor Regulation.

Dated at Bethesda, Maryland, this                      day of                      1986

FOR THE NUCLEAR REGULATORY COMMISSION

\* See next page for previous concurrences

Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

*by objection*  
*Per telecon*  
*Sherwin Turk*

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For further details with respect to the action, see (1) the application for amendments dated August 9, 1984, (2) Amendments No. 7 to Construction Permits CPPR-135 and CPPR-136, (3) the Commission's related Safety Evaluation, (4) the Exemption dated November 22, 1985, and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated November 12, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W. Washington, DC 20555, and at the Local Public Document Room at Exeter Public Library, Front Street, Exeter, New Hampshire 03833. In addition, a copy of items (2), (3), (4), and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, DC 20555, Attention: Director, Division of PWR Licensing-A, Office of Nuclear Reactor Regulation.

Dated at Bethesda, Maryland, this                      day of                      1986

FOR THE NUCLEAR REGULATORY COMMISSION

Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

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SUBJECT: ISSUANCE OF AMENDMENT NO. 7 TO CPPR-135 AND CPPR-136 FOR SEABROOK STATION, UNITS 1 & 2

INTERNAL DISTRIBUTION:

Docket Files - 50-443 & 50-444

NRC PDR

LPDR

PWR#5 Reading

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