

April 27, 2000

Mr. Ted C. Feigenbaum  
Executive Vice President and  
Chief Nuclear Officer  
North Atlantic Energy Service Corporation  
c/o Mr. James M. Peschel  
P.O. Box 300  
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT NO. 1 - ISSUANCE OF AMENDMENT RE:  
EDITORIAL AND ADMINISTRATIVE CHANGES (TAC NO. MA7760)

Dear Mr. Feigenbaum:

The Commission has issued the enclosed Amendment No. 68 to Facility Operating License No. NPF-86 for the Seabrook Station, Unit No 1, in response to your application dated December 13, 1999.

The amendment revises the license to delete expired license conditions and to make some editorial and administrative changes to correct or clarify the license.

A copy of the related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,  
/RA/

Robert M. Pulsifer, Project Manager, Section 2  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

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Docket No. 50-443

Enclosures: 1. Amendment No. 68 to NPF-86  
2. Safety Evaluation

cc w/encls: See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

NORTH ATLANTIC ENERGY SERVICE CORPORATION, ET AL.\*

DOCKET NO. 50-443

SEABROOK STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

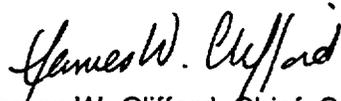
Amendment No. 68  
License No. NPF-86

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment filed by the North Atlantic Energy Service Corporation, et al. (the licensee), dated December 13, 1999, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. 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
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

\*North Atlantic Energy Service Corporation (NAESCO) is authorized to act as agent for the: North Atlantic Energy Corporation, Canal Electric Company, The Connecticut Light and Power Company, Great Bay Power Corporation, Hudson Light & Power Department, Massachusetts Municipal Wholesale Electric Company, Little Bay Power Corporation, New England Power Company, New Hampshire Electric Cooperative, Inc., Taunton Municipal Light Plant, The United Illuminating Company, and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

2. Accordingly, the Operating License is amended as indicated in the attachment to this license amendment.
3. This license amendment is effective as of its date of issuance and shall be implemented within 60 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



James W. Clifford, Chief, Section 2  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Attachment: Changes to the Operating License

Date of Issuance: April 27, 2000

ATTACHMENT TO LICENSE AMENDMENT NO. 68

FACILITY OPERATING LICENSE NO. NPF-86

DOCKET NO. 50-443

Replace the following pages of the Operating License No. NPF-86 with the attached revised pages as indicated. The revised pages are identified by amendment number and contain marginal lines indicating the area of change.

Remove

1  
2  
3a  
3b  
4  
5

Insert

1  
2  
3a  
3b  
4  
5



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

NORTH ATLANTIC ENERGY SERVICE CORPORATION, ET AL.\*

DOCKET NO. 50-443

SEABROOK STATION, UNIT NO. 1

FACILITY OPERATING LICENSE

License No. NPF-86

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

\*North Atlantic Energy Service Corporation (NAESCO) is authorized to act as agent for the: North Atlantic Energy Corporation, Canal Electric Company, The Connecticut Light and Power Company, Great Bay Power Corporation, Hudson Light & Power Department, Massachusetts Municipal Wholesale Electric Company, Little Bay Power Corporation, New England Power Company, New Hampshire Electric Cooperative, Inc., Taunton Municipal Light Plant, and The United Illuminating Company, and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

- F. The licensees have satisfied the applicable provisions of 10 CFR 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
  - G. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public;
  - H. After weighing the environmental, economical, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Facility Operating License No. NPF-86 subject to the conditions for protection of the environment set forth in the Environmental Protection Plan attached as Appendix B, is in accordance with 10 CFR 51 of the Commission's regulations and all applicable requirements have been satisfied; and
  - I. The receipt, possession and use of source, byproduct, and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR 30, 40, and 70.
2. Based on the foregoing findings and the Commission's Memorandum and Order, CLI-90-03 (March 1, 1990), Facility Operating License No. NPF-67 is superseded by Facility Operating License No. NPF-86, issued to the licensees, is hereby amended to read as follows:
- A. This license applies to the Seabrook Station, Unit 1, a pressurized water nuclear reactor and associated equipment (the facility), owned by the licensees. The facility is located in Seabrook Township, Rockingham County, on the southeast coast of the State of New Hampshire, and is described in the licensees' "Final Safety Analysis Report," as supplemented and amended, and in the licensees' Environmental Report, as supplemented and amended.
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
    - (1) North Atlantic Energy Service Corporation (NAESCO), pursuant to Section 103 of the Act and 10 CFR 50, to possess, use and operate the facility at the designated location in Rockingham County, New Hampshire, in accordance with the procedures and limitations set forth in this license;
    - (2) The licensees to possess the facility at the designated location in Rockingham County, New Hampshire, in accordance with the procedures and limitations set forth in this license;

Further, the licensees are also required to notify the NRC in writing prior to any change in: (i) the terms or conditions of any lease agreements executed as part of these transactions; (ii) the Seabrook Operating Agreement, or (iii) the existing property insurance coverage for Seabrook Station, Unit 1. In addition, the licensees are required to notify the NRC of any action by a lessor or others that may have an effect on the safe operation of the facility.

- C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 10 CFR Chapter I and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

NAESCO is authorized to operate the facility at reactor core power levels not in excess of 3411 megawatts thermal (100% of rated power).

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. and the Environmental Protection Plan contained in Appendix B are incorporated into Facility License No. NPF-86. NAESCO shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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D. Exemptions

NAESCO is exempted from the Section III.D.2(b)(ii) containment airlock testing requirements of Appendix J to 10 CFR 50, because of the special circumstances described in Section 6.2.6 of SER Supplement 5 and authorized by 10 CFR 50.12(a)(2)(ii) and (iii) (51 FR 37684 October 23, 1986).

NRC Materials License No. SNM-1963, issued December 19, 1985, granted an exemption pursuant to 10 CFR 70.24 with respect to requirements for criticality alarms. NAESCO is hereby exempted from provisions of 10 CFR 70.24 insofar as this section applies to the storage and handling of new fuel assemblies in the new fuel storage vault, spent fuel pool (when dry), and shipping containers.

These exemptions, authorized by law, will not present an undue risk to the public health and safety and are consistent with the common defense and security. These exemptions are hereby granted pursuant to 10 CFR 50.12. With the granting of these exemptions, the facility will operate, to the extent authorized herein, in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission.

E. Physical Security

NAESCO shall fully implement and maintain in effect all provisions of the physical security, guard training and qualification, and safeguards contingency plans, previously approved by the Commission and all amendments and revisions to such plans made pursuant to the authority of 10 CFR 50.90 and 10 CFR 50.54(p) including amendments and revisions made pursuant to provisions of the Miscellaneous Amendments and Search Requirements of 10 CFR 73.55. The plans which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Seabrook Station Physical Security Plan," with revisions submitted through June 9, 1988; "Seabrook Station Security Training and Qualification Plan," with revisions submitted through November 4, 1987; and "Seabrook Station Safeguards Contingency Plan," with revisions submitted through May 19, 1987. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

F. Fire Protection

NAESCO shall implement and maintain in effect all provisions of the approved fire protection program as described in the Final Safety Analysis Report, the Fire Protection Program Report, and the Fire Protection of Safe Shutdown Capability Report for the facility, as supplemented and amended, and as approved in the Safety Evaluation Report, dated March 1983; Supplement 4, dated May 1986; Supplement 5, dated July 1986; Supplement 6, dated October 1986; Supplement 7, dated October 1987; and Supplement 8, dated May 1989 subject to the following provisions: NAESCO may make changes to the approved fire protection program without prior approval of the Commission, only if those changes would not adversely affect the ability to achieve and maintain shutdown in the event of a fire.

G. Reporting to the Commission

Except as otherwise provided in the Technical Specifications or Environmental Protection Plan, NAESCO shall report any violations of the requirements contained in Sections 2.C.(1) and 2.C.(2) of this license in the following manner: Initial notification shall be made within 24 hours to the NRC Operations Center via the Emergency Notification System, with written follow-up within 30 days in accordance with the procedures described in 10 CFR Part 50.73(b), (c), and (e).

H. Financial Protection

The licensees shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.

I. Marketing of Energy (Amendment No. 10 , Section 3.0 of SER)

NAESCO is prohibited from marketing or brokering power or energy from the plant. In addition, all licensees other than NAESCO are responsible and accountable for the actions of their agent to the extent said agent's actions effect the marketing or brokering of power and energy from Seabrook Station, Unit 1.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 68 TO FACILITY OPERATING LICENSE NO. NPF-86

NORTH ATLANTIC ENERGY SERVICE CORPORATION

SEABROOK STATION, UNIT NO. 1

DOCKET NO. 50-443

1.0 INTRODUCTION

By letter dated December 13, 1999, the North Atlantic Energy Service Corporation (the licensee) proposed changes to the Seabrook Station, Unit No. 1 license. The changes include 1) the deletion of expired license conditions; 2) correcting an owner and operator corporation name from North Atlantic Energy Company and North Atlantic Energy Service Company to North Atlantic Energy Corporation and North Atlantic Energy Service Corporation, respectively; 3) delete a duplicate Section E; 4) correct a Safety Evaluation Report, Supplement 5 issue date; 5) clarify reporting requirements, and 6) make editorial changes to make the format consistent.

2.0 EVALUATION

The licensee proposed to administratively clean-up the Seabrook Station, Unit 1, operating license to clarify sections as well as delete sections that no longer apply.

2.1 License Condition 2.C.(3) "Human Factors Engineering (Section 18, SSER 7)" states the following:

"Before startup following the first refueling outage, NAESCO shall resolve the following remaining Safety Parameter Display Systems issues:

- (a) Perform system availability calculations including Reactor Vessel Level Indication System and Radiation Data Management System and provide a report to the staff.
- (b) Perform system load test under heavily loaded plant conditions and provide a report of the evaluation to the staff."

In a letter dated September 24, 1991, New Hampshire Yankee reported that the availability study had been performed for the Safety Parameter Display System which includes the Reactor Vessel Level Indication System and the Radiation Data Management System and that the study showed an availability of 99.18 percent. The licensee also reported that the system load test under heavily loaded conditions was performed during the Power Ascension Test Program and

that the response time was acceptable. With the submittal of the reports as directed by License Conditions 2.C.(3)(a) & (b) the licensee has completed the license condition requirements. The NRC finds the deletion of License Condition 2.C.(3) and its related footnote in the operating license to be acceptable because the required actions have been completed.

## 2.2 The licensee proposes to delete License Condition 2.C.(4), "Transfer of Managing Authority."

License Amendment No. 10 was issued on May 29, 1992, to reflect the transfer of operations and maintenance of the Seabrook Station, Unit 1, from the Public Service Company of New Hampshire to North Atlantic Energy Service Corporation (NAESCO). Amendment No. 11 issued on May 29, 1992 revised the operating license to reflect the transfer of a 35.6% ownership interest in Seabrook Station, Unit 1, from Public Service Company of New Hampshire to North Atlantic Energy Corporation. Note that Amendment Nos. 10 and 11 contained an administrative error in that the amendments specified NAESCO as North Atlantic Energy Service Company instead of North Atlantic Energy Service Corporation and North Atlantic Energy Company instead of North Atlantic Energy Corporation.

This license condition was added to the license to provide reporting requirements for a period of 3 years from the date of the amendment (May 29, 1992). These requirements were 1) senior site official changes; 2) reports of the Oversight Committee or any reports of, or to, the Joint Owners relating to various topics; 3) Operators assessment of the oversight reports along with the Joint Owners review and assessment; and 4) any changes to certain sections of the Joint Ownership Agreement and the Managing Agent Operating Agreement. The 3-year period has expired; therefore, it is acceptable to remove this license condition.

## 2.3 Administrative Error

As mentioned above there was an administrative error established by Amendment Nos. 10 and 11 that incorrectly specified NAESCO, the operator of the Seabrook Station, as North Atlantic Energy Service Company instead of the North Atlantic Energy Service Corporation and incorrectly identifying an owner as North Atlantic Energy Company instead of North Atlantic Energy Corporation. This correction was made in the license title and its referenced footnote as well as in Sections 1.A, 1.E, and 2.B.(1). Changing the word "Company" to "Corporation" to correct the license is acceptable.

## 2.4 Duplication Error

Section 1.E is repeated in the license on the bottom of page 1 and the top of page 2. Because this section has been repeated, it is acceptable to delete the second Section E.

## 2.5 Reformatting

Subsections under Section 1 of the license are numbered on page 1; however, they are alphabetized on page 2. To provide consistency throughout the license the subsections under Section 1 on page 1 were changed to use the alpha format A, B, C, D, and E to replace the numerals 1, 2, 3, 4, and 5. This change is acceptable.

## 2.6 Renumbering

The numbering of license condition 2C on page 3a is not consistent with the format used on pages 2, 4, and 5 for the other Section 2 subsections, A, B, and D through I. The "2" has been deleted from "2C" to reflect the format used elsewhere in this Section. This is acceptable.

## 2.7 Reference Correction

Section 2C on page 3a incorrectly references 10 CFR Chapter 1. The chapter designation should be as previously referenced in the license to be 10 CFR Chapter I which changes the numeral 1 to a Roman numeral I. This is acceptable.

## 2.8 Date Correction

Section 2.F, "Fire Protection" of the license states that Supplement 5 to the Safety Evaluation Report is dated June 1986. The actual date of Supplement 5 to NUREG-0896, "Safety Evaluation Report related to the operation of Seabrook Station, Units 1 and 2" is July 1986. Changing the date in the license from June to July 1986 is acceptable.

## 2.9 Licensing Condition Clarification

The wording in Section 2.G, "Reporting to the Commission" was revised to change "Section 2.C" to "Sections 2.C.(1) and 2.C.(2)." This change is made to more clearly identify that Section 2.G was not addressing the introductory Section 2.C; but more specifically Sections 2.C.(1) and (2). This change clarifies the License Condition to specifically identify the license condition to which the reporting requirements apply. This change is acceptable.

## 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the New Hampshire and Massachusetts State officials were notified of the proposed issuance of the amendment. The State officials had no comments.

## 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves 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 previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (65 FR 6408). Accordingly, the amendment meets 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 the amendment.

## 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Robert M. Pulsifer

Date: April 27, 2000