

March 17, 1998

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

SUBJECT: ISSUANCE OF AMENDMENT NO. 54 TO FACILITY OPERATING LICENSE  
NPF-86: AC POWER SOURCES, EMERGENCY DIESEL GENERATOR  
REQUIREMENTS - LICENSE AMENDMENT REQUEST 97-05 (TAC NO. M96640)

Dear Mr. Feigenbaum:

The Commission has issued the enclosed Amendment No. 54 to Facility Operating License No. NPF-86 for the Seabrook Station, Unit No. 1, in response to your application dated October 16, 1996.

The amendment revises the Appendix A Technical Specifications (TSs) relating to the requirements for AC power sources. The amendment changes certain requirements related to the emergency diesel generators stated in TS 3/4.8.1, "AC Sources."

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,

ORIGINAL SIGNED BY:  
Craig W. Smith, Project Manager  
Project Directorate I-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-443

Enclosures: 1. Amendment No. 54 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. 54  
License No. NPF-86

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by North Atlantic Energy Service Corporation, et al. (the licensee), dated October 16, 1996, 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.

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

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-86 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 54 , 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.

3. This license amendment is effective as of the date of its issuance, to be implemented within 60 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Cecil O. Thomas, Director  
Project Directorate I-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical  
Specifications

Date of Issuance: March 17, 1998

## 3/4.8 ELECTRICAL POWER SYSTEMS

### 3/4.8.1 A.C. SOURCES

#### OPERATING

#### LIMITING CONDITION FOR OPERATION

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3.8.1.1 As a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. Two physically independent circuits between the offsite transmission network and the onsite Class 1E Distribution System, and
- b. Two separate and independent diesel generators, each with:
  - 1) A separate day fuel tank containing a minimum fuel volume fraction of 3/8 (600 gallons).
  - 2) A separate Fuel Storage System containing a minimum volume of 62,000 gallons of fuel.
  - 3) A separate fuel transfer pump.
  - 4) Lubricating oil storage containing a minimum total volume of 275 gallons of lubricating oil, and
  - 5) Capability to transfer lubricating oil from storage to the diesel generator unit.

APPLICABILITY: MODES 1, 2, 3, and 4.

#### ACTION:

- a. With an offsite circuit of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. source by performing Specification 4.8.1.1.a. within 1 hour and at least once per 8 hours thereafter; restore at least two offsite circuits to OPERABLE status within 24 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

## ELECTRICAL POWER SYSTEMS

### A.C. SOURCES

#### OPERATING

#### LIMITING CONDITION FOR OPERATION

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##### 3.8.1.1 (Continued)

##### ACTION:

- b. With a diesel generator inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Specification 4.8.1.1.1a within 1 hour and at least once per 8 hours thereafter. Demonstrate the OPERABILITY of the remaining diesel generator by performing Specification 4.8.1.1.2a.5) within 8 hours.\* Restore at least two diesel generators to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- c. With one offsite circuit and one diesel generator of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. source by performing Specification 4.8.1.1.1a. within 1 hour and at least once per 8 hours thereafter. Demonstrate the OPERABILITY of the remaining diesel generator by performing Specification 4.8.1.1.2a.5) within 8 hours.\* Restore at least one of the inoperable sources to OPERABLE status within 12 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. Restore at least two offsite circuits to OPERABLE status within 24 hours and two diesel generators to OPERABLE status within 72 hours from the time of initial loss or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

\*The OPERABILITY of the remaining diesel generator need not be verified if the diesel generator became inoperable due to:

1. Preplanned preventive maintenance or testing,
2. An inoperable support system with no potential common mode failure for the remaining diesel generator, or
3. An independently testable component with no potential common mode failure for the remaining diesel generator.

ELECTRICAL POWER SYSTEMS

A.C. SOURCES

OPERATING

SURVEILLANCE REQUIREMENTS

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4.8.1.1.2 (Continued)

- b) A kinematic viscosity at 40°C of greater than or equal to 1.9 centistokes, but less than or equal to 4.1 centistokes, if gravity was not determined by comparison with the supplier's certification;
  - c) A flash point greater than or equal to 125°F; and
  - d) A clear and bright appearance with proper color when tested in accordance with ASTM-D4176-82.
- 2) By verifying within 30 days of obtaining the sample that the other properties specified in Table 1 of ASTM-D975-81 are met when tested in accordance with ASTM-D975-81 except that the analysis for sulfur may be performed in accordance with ASTM-D1552-79 or ASTM-D2622-82.
- e. At least once every 31 days:
- 1) By obtaining a sample of fuel oil in accordance with ASTM-D2276-78, and verifying that total particulate contamination is less than 10 mg/liter when checked in accordance with ASTM-D2276-78, Method A, and
  - 2) By visually inspecting the lagging in the area of the flanged joints on the silencer outlet of the diesel exhaust system for leakage (also after an extended operation of greater than 24 hours).
- f. At least once per 18 months, during shutdown<sup>\*</sup>, by:
- 1) Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service;
  - 2) Verifying the generator capability to reject a load of greater than or equal to 671 kW while maintaining voltage at  $4160 \pm 420$  volts and frequency at  $60 \pm 4.0$  Hz;

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<sup>\*</sup>selected surveillance requirements, or portions thereof, may be performed during conditions or modes other than shutdown, provided a 10 CFR 50.59 Safety Evaluation supports safe conduct of that surveillance in a condition or mode that is consistent with safe operation of the plant. (Ref. NRC GL 91-04)

# ELECTRICAL POWER SYST'

## A.C. SOURCES

### OPERATING

#### SURVEILLANCE REQUIREMENTS

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##### 4.8.1.1.2 (Continued)

- 3) Verifying the generator capability to reject a load of 6083 kW without tripping. The generator voltage shall not exceed 4784 volts during and following the load rejection;
- 4) Simulating a loss-of-offsite power by itself, and:
  - a) Verifying deenergization of the emergency busses and load shedding from the emergency busses, and
  - b) Verifying the diesel starts from standby conditions on the loss of offsite power signal, energizes the emergency busses with permanently connected loads within 12 seconds, energizes the auto-connected shutdown loads through the emergency power sequencer and operates for greater than or equal to 5 minutes while its generator is loaded with the shutdown loads. After energization, the steady-state voltage and frequency of the emergency busses shall be maintained at  $4160 \pm 420$  volts and  $60 \pm 1.2$  Hz during this test.
- 5) Verifying that on an SI actuation test signal, without loss-of-offsite power, the diesel generator starts from standby conditions, on the auto-start signal and operates on standby for greater than or equal to 5 minutes. The generator voltage and frequency shall be  $4160 \pm 420$  volts and  $60 \pm 1.2$  Hz within 10 seconds after the auto-start signal; the steady-state generator voltage and frequency shall be maintained within these limits during this test;
- 6) Simulating a loss-of-offsite power in conjunction with an SI actuation test signal; and
  - a) Verifying deenergization of the emergency busses and load shedding from the emergency busses;
  - b) Verifying the diesel starts from standby conditions, on the auto-start signal, energizes the emergency busses with permanently connected loads within 10 seconds, energizes the auto-connected emergency (accident) loads through the emergency power sequencer and operates for greater than or equal to 5 minutes while its generator is loaded with the emergency loads. After energization, the steady-state voltage and frequency of the emergency busses shall be maintained at  $4160 \pm 420$  volts and  $60 \pm 1.2$  Hz during this test; and
  - c) Verifying that all automatic diesel generator trips, except engine overspeed, low lube oil pressure, 4160-volt bus fault, and generator differential, are automatically bypassed upon loss of voltage on the emergency bus concurrent with a Safety Injection actuation signal.

# ELECTRICAL POWER SYSTEMS

## A.C. SOURCES

### OPERATING

#### SURVEILLANCE REQUIREMENTS

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##### 4.8.1.1.2 (Continued)

- 10) Verifying that with the diesel generator operating in a test mode, connected to its bus, a simulated Safety Injection signal overrides the test mode by: (1) returning the diesel generator to standby operation, and (2) automatically energizing the emergency loads with offsite power;
  - 11) Verifying that the fuel transfer pump transfers fuel from each fuel storage tank to the day tank of each diesel via the installed cross-connection lines;
  - 12) Verifying that the emergency power sequence timer is OPERABLE with the interval between each load block within  $\pm 10\%$  of its design interval;
  - 13) Verifying that the following diesel generator lockout features prevent diesel generator starting:
    - a) Barring device engaged, or
    - b) Differential lockout relay.
  - 14) Simulating a Tower Actuation (TA) signal while the diesel generator is loaded with the permanently connected loads and auto-connected emergency (accident) loads, and verifying that the service water pump automatically trips, and that the cooling tower pump automatically starts. After energization the steady state voltage and frequency of the emergency buses shall be maintained at  $4160 \pm 420$  volts and  $60 \pm 1.2$  Hz; and
  - 15) While diesel generator 1A is loaded with the permanently connected loads and auto-connected emergency (accident) loads, manually connect the 1500 hp startup feedwater pump to 4160-volt bus E5. After energization the steady-state voltage and frequency of the emergency bus shall be maintained at  $4160 \pm 420$  volts and  $60 \pm 1.2$  Hz.
- g. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting both diesel generators simultaneously, during shutdown, and verifying that both diesel generators accelerate to  $60 \pm 1.2$  Hz in less than or equal to 10 seconds; and

# ELECTRICAL POWER SYST

## A.C. SOURCES

### OPERATING

#### SURVEILLANCE REQUIREMENTS

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##### 4.8.1.1.2 (Continued)

- h. At least once per 10 years by draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank using a sodium hypochlorite solution, or equivalent.

4.8.1.1.3 Reports - All diesel generator failures, valid or nonvalid, shall be reported to the Commission in a Special Report pursuant to Specification 6.8.2 within 30 days. Reports of diesel generator failures shall include the information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977. If the number of failures in the last 100 valid tests (on a per nuclear unit basis) is greater than or equal to 7, the report shall be supplemented to include the additional information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977.

TABLE 4.8-1

DIESEL GENERATOR TEST SCHEDULE

| <u>NUMBER OF FAILURES IN<br/>LAST 20 VALID TESTS*</u> | <u>NUMBER OF FAILURES IN<br/>LAST 100 VALID TESTS*</u> | <u>TEST FREQUENCY</u>      |
|---|--|----------------------------|
| < 1   | < 5  | At least once per 31 days  |
| ≥ 2   | ≥ 6  | At least once per 7 days** |

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\*Criteria for determining the number of failures and number of valid tests shall be in accordance with Regulatory Position C.2.e of Regulatory Guide 1.108, Revision 1, August, 1977, but determined on a per diesel generator basis.

For the purpose of determining the required test frequency, the previous test failure count may be reduced to zero if a complete diesel overhaul to like-new condition is completed, provided that the overhaul, including appropriate post-maintenance operation and testing, is specifically approved by the manufacturer and if acceptable reliability has been demonstrated. The reliability criterion shall be the successful completion of 14 consecutive tests in a single series in accordance with the routine Surveillance Requirements of 4.8.1.1.2.a.5 and 4.8.1.1.2.a.6. If this criterion is not satisfied during the first series of tests, any alternate criterion to be used to transvalue the failure count to zero requires NRC approval.

\*\*This test frequency shall be maintained until seven consecutive failure-free demands have been performed and the number of failures in the last 20 valid demands has been reduced to one or less.

ATTACHMENT TO LICENSE AMENDMENT NO. 54

FACILITY OPERATING LICENSE NO. NPF-86

DOCKET NO. 50-443

Replace the following pages of Appendix A, Technical Specifications, with the attached pages as indicated. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change. Overleaf pages have been provided.

Remove

3/4 8-1

3/4 8-2\*

3/4 8-5

3/4 8-6

3/4 8-8

3/4 8-9

3/4 8-10\*

Insert

3/4 8-1

3/4 8-2\*

3/4 8-5

3/4 8-6

3/4 8-8

3/4 8-9

3/4 8-10\*



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 54 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 October 16, 1996, North Atlantic Energy Service Corporation (the licensee) proposed an amendment to the Appendix A Technical Specifications (TSs) for the Seabrook Station, Unit No. 1 (Seabrook). The proposed amendment would change certain requirements stated in TS 3/4.8.1, "AC Sources." The requirements are related to the emergency diesel generators (EDGs).

2.0 DISCUSSION

The proposed amendment would: 1) increase the EDG fuel storage system minimum volume requirements specified in limiting condition for operation (LCO) 3.8.1.1.b.2; 2) add a footnote applicable to surveillance requirement (SR) 4.8.1.1.2.f to qualify the words "during shutdown" to allow the option of performing selected surveillances, or portions thereof, during conditions or modes other than shutdown; 3) delete from SR 4.8.1.1.2.f.14 for EDG testing the requirement to verify that the cooling tower fans start automatically on a tower actuation signal; and 4) delete SR 4.8.1.1.2.h.2 which specifies certain requirements for performing periodic pressure tests on the American Society of Mechanical Engineers (ASME) Code Class 3 diesel generator fuel oil piping.

3.0 EVALUATION

The proposed change to LCO 3.8.1.1.b.2 would increase the fuel storage system minimum volume requirements from 60,000 gallons to 62,000 gallons to account for external factors that may affect the fuel consumption rate. The revised storage requirement reflects actual EDG test data and accounts for external variables including changes in the fuel oil specific gravity, heating value of the fuel, and ambient conditions. The fuel storage tank alarm setpoints have been previously administratively controlled to the more restrictive value of 62,000 gallons. The minimum fuel storage requirement ensures that each redundant EDG has a minimum 7-day supply of fuel oil to meet the maximum engineered safety feature load requirements following a loss of off-site power and a design basis accident as described in the Seabrook Station Updated Final Safety Analysis Report (UFSAR) Section 9.5.4.1, Diesel Generator Fuel Oil and Storage and Transfer System - Design Bases. The proposed change ensures that the 7-day supply of fuel oil will be maintained. The staff finds the proposed change to be acceptable.

The proposed change to SR 4.8.1.1.2.f would qualify the requirement to perform EDG surveillance testing "during shutdown." The proposed change would permit certain maintenance and testing activities to be performed during conditions or modes other than shutdown subject to the performance of a 10 CFR 50.59 safety evaluation. The proposed change will not alter the intent or method by which the surveillance activities are to be conducted. The proposed change will not degrade the ability of each EDG to perform its intended functions. The staff finds the proposed change to be acceptable.

The proposed change to SR 4.8.1.1.2.f.14 for EDG testing would delete the reference to the automatic start of the cooling tower fans. The surveillance requirement for the automatic start feature of the cooling tower fans was deleted from the ultimate heat sink technical specification, TS 3/4.7.5, by License Amendment No. 18 issued on November 27, 1992. Due to an oversight, the surveillance requirement for the cooling tower fan automatic start feature was not removed from TS 3/4.8.1 for EDG testing. In the interim, the licensee has continued to comply with the surveillance requirement. The staff reviewed the safety evaluation issued for License Amendment No. 18 and found it to be applicable to this proposed change. Therefore, the staff finds this proposed change to be acceptable.

The proposed change would delete the requirement of SR 4.8.1.1.2.h.2 to pressure test those portions of the diesel fuel oil system that are designed to Section III, Subsection ND of the ASME Code at a test pressure equal to 110% of the system design pressure. Certain portions of the diesel fuel oil system at Seabrook include above ground and below grade Class 3 tanks and some piping that are designed for and operate at atmospheric conditions. No isolation valves are provided on the atmospheric vents for these portions of the system. Therefore, it is not feasible to perform a 110% pressure test on these components. SR 4.0.5 establishes the requirement to perform inservice inspection and inservice testing of ASME Code Class 3 components in accordance with the ASME Code Section XI requirements. Section XI of the ASME Code requires that these components be subjected to a nominal hydrostatic pressure test developed with the tank filled to its design capacity. The 110% system pressure testing requirements of SR 4.8.1.1.2.h.2 are more restrictive than the ASME code and place a hardship on the licensee. SR 4.0.5 adequately addresses the system pressure test requirements for the diesel fuel oil system to meet the ASME code requirements. Therefore, the staff finds this proposed change to be acceptable.

In consideration of the foregoing, the changes are acceptable.

#### 4.0 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.

## 5.0 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 and changes a surveillance requirement. 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 (61 FR 66711). 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.

## 6.0 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: Craig W. Smith

Date: March 17, 1998