

**North
Atlantic**

North Atlantic Energy Service Corporation
P.O. Box 300
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The Northeast Utilities System

October 14, 1999

Docket No. 50-443

NYN-99095

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

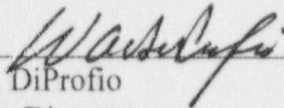
Seabrook Station
September 1999 Monthly Operating Report

Enclosed please find Monthly Operating Report 99-09. This report addresses the operating and shutdown experience relating to Seabrook Station Unit 1 for the month of September, 1999 and is submitted in accordance with the requirements of Seabrook Station Technical Specification 6.8.1.5.

Should you require further information regarding this matter, please contact Mr. James M. Peschel, Regulatory Compliance Manager, at (603) 773-7194.

Very truly yours,

NORTH ATLANTIC ENERGY SERVICE CORP.



W. A. DiProffio
Station Director

cc:

H. J. Miller, NRC Region I Administrator
J. T. Harrison, NRC Project Manager, Project Directorate 1-2
R. K. Lorson, NRC Senior Resident Inspector

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OPERATING DATA REPORT

DOCKET NO. 50-443
 UNIT Seabrook 1
 DATE October 1, 1999
 COMPLETED BY P.E. Nardone
 TELEPHONE (603) 773-7074

| OPERATING STATUS | | | | |
|-------------------------|--|-------------------------|------------|------------|
| 1. | Unit Name: | Seabrook Station Unit 1 | | |
| 2. | Reporting Period: | SEPTEMBER 1999 | | |
| 3. | Licensed Thermal Power (MWt): | 3411.0 | | |
| 4. | Nameplate Rating (Gross MWe): | 1242.0 | | |
| 5. | Design Electrical Rating (Net MWe): | 1148.0 | | |
| 6. | Maximum Dependable Capacity (Gross MWe): | 1204.0 | | |
| 7. | Maximum Dependable Capacity (Net MWe): | 1155.3 | | |
| 8. | If Changes Occur in Capacity Ratings (Items Number 3 through 7) Since Last Report, Give Reasons: | Not Applicable | | |
| 9. | Power Level To Which Restricted, If Any (Net MWe): | None | | |
| 10. | Reasons For Restrictions, If Any: | Not Applicable | | |
| | | This Month | Yr-to-Date | Cumulative |
| 11. | Hours in Reporting Period | 720.0 | 6551.0 | 113568.0 |
| 12. | Number of Hours Reactor Was Critical | 720.0 | 5456.9 | 69519.8 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 953.3 |
| 14. | Hours Generator On-Line | 720.0 | 5356.6 | 66883.8 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2455221 | 18029347 | 222189721 |
| 17. | Gross Elec. Energy Generated (MWH) | 868525 | 6374402 | 77732348 |
| 18. | Net Electrical Energy Generated (MWH) | 834378 | 6124816 | 74710902 |
| *19. | Unit Service Factor | 100.0 | 81.8 | 82.0 |
| *20. | Unit Availability Factor | 100.0 | 81.8 | 82.0 |
| *21. | Unit Capacity Factor (Using MDC Net) | 100.3 | 80.8 | 80.0 |
| *22. | Unit Capacity Factor (Using DER Net) | 100.9 | 81.4 | 80.3 |
| *23. | Unit Forced Outage Rate | 0.0 | 0.9 | 6.8 |
| 24. | Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): | Non Scheduled | | |
| 25. | If Shut Down At End Of Report Period, Estimated Date of Startup: | Not Applicable | | |

*NOTE: "Cumulative" values based on total hours starting 8/19/90, date Regular Full Power Operation began.
 Increased MDC values (Items 6 & 7) starting 12/01/95.
 Updated Item 4 per NUREG-0020 in July 1998.
 Decreased MDC value (Item 7) starting 05/01/99

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-443

UNIT Seabrook 1

DATE October 1, 1999

COMPLETED BY P.E. Nardone

TELEPHONE (603) 773-7074

MONTH SEPTEMBER, 1999

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|
| 1 | 1157 |
| 2 | 1158 |
| 3 | 1159 |
| 4 | 1159 |
| 5 | 1159 |
| 6 | 1159 |
| 7 | 1159 |
| 8 | 1159 |
| 9 | 1160 |
| 10 | 1160 |
| 11 | 1160 |
| 12 | 1159 |
| 13 | 1159 |
| 14 | 1159 |
| 15 | 1159 |
| 16 | 1158 |

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|
| 17 | 1157 |
| 18 | 1159 |
| 19 | 1158 |
| 20 | 1158 |
| 21 | 1159 |
| 22 | 1158 |
| 23 | 1158 |
| 24 | 1159 |
| 25 | 1160 |
| 26 | 1160 |
| 27 | 1160 |
| 28 | 1160 |
| 29 | 1160 |
| 30 | 1160 |
| - | |
| - | |

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-443
 UNIT Seabrook 1
 DATE October 1, 1999
 COMPLETED BY P.E. Nardone
 TELEPHONE (603) 773-7074

MONTH SEPTEMBER, 1999

| NO. | DATE | TYPE ¹ | DURATION (HOURS) | REASON ² | METHOD OF SHUTTING DOWN REACTOR ³ | LICENSEE EVENT REPORT # | CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE Page 1 of 1 |
|-----|------|---------------------------|------------------|---------------------|--|-------------------------|---|
| 1 | | F: Forced S: Scheduled | | | | | No entries for this month |

¹
 Reason:
 A - Equipment Failure (Explain)
 B - Maintenance or Test
 C - Refueling
 D - Regulatory Restriction
 E - Operator Training & License Examination
 F - Administrative
 G - Operational Error (Explain)
 H - Other (Explain)

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 Method:
 1 - Manual
 2 - Manual Scram
 3 - Automatic Scram
 4 - Continued from previous month
 5 - Power Reduction (Duration = 0)
 9 - Other (Explain)

REFUELING INFORMATION REQUEST

| | |
|--------------|-----------------|
| DOCKET NO. | 50-443 |
| UNIT | Seabrook 1 |
| DATE | October 1, 1999 |
| COMPLETED BY | P.E. Nardone |
| TELEPHONE | (603) 773-7074 |

- Name of Facility: Seabrook Unit 1
- Scheduled date for next refueling shutdown: Refueling Outage 7, 10/21/00
- Scheduled date for restart following refueling: Refueling Outage 7, 11/24/00 [35 days]
- Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
YES: LAR 99-02, "Operation with Relaxed Axial Offset Control and Continued Use of the Fixed Incore Detectors."
- Schedule date(s) for submitting licensing action and supporting information:
October 1999
- Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures:
LAR 99-02 proposes Technical Specification changes to operate Seabrook Station with:
 - Upgraded Westinghouse Fuel Design with Intermediate Flow Mixers (VANTAGE+ w/IFMs).
 - Safety analysis jointly supplied by Westinghouse and Duke Engineering Services.
 - Westinghouse Relaxed Axial Offset Control (RAOC) using the Fixed Incore Detection System.
- The number of fuel assemblies (a) in the core (b) in the spent fuel storage pool and (c) in the new fuel storage vault
(a) 193 (b) 452 (c) 0
- The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:
Present licensed capacity: 1236
No increase in storage capacity requested or planned.
- The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:
Licensed capacity of 1236 fuel assemblies based on two annual and twelve eighteen-month refuelings with full core offload capability.
The current licensed capacity is adequate until at least the year 2010.