New Hampshire
Yankee

Ted C. Feigenbaum
Senior Vice President and
Chief Operating Officer

NYN-90153

August 13, 1990

United States Nuclear Regulatory Commission
Washington, DC 20555

Attention: Document Control Desk

References: Facility Operating License NPF-86, Docket No. 50-443

Subject: Monthly Operating Report

Gentlemen:

Enclosed please find Monthly Operating Report 90-07. This report addresses the operating and shutdown experience relating to Seabrook Station Unit 1 for the month of July, 1990 and is submitted in accordance with the requirements of Seabrook Station Technical Specification 6.8.1.5.

Very truly yours,

Ted C. Feigenbaum

Enclosure

cc: Mr. Thomas T. Martin
Regional Administrator
United States Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

Mr. Noel Dudley
NRC Senior Resident Inspector
P.O. Box 1149
Seabrook, NH 03874

IE24
1/1

OPERATING DATA REPORT

DOCKET NO. 50-443
UNIT Seabrook 1
DATE 08/13/90
COMPLETED BY P. Nardone
TELEPHONE (603) 474-9521
(Ext. 4074)

OPERATING STATUS

1. Unit Name: Seabrook Station Unit 1
2. Reporting Period: JULY 1990
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1197
5. Design Electrical Rating (Net MWe): 1148
6. Maximum Dependable Capacity (Gross MWe): 1200
7. Maximum Dependable Capacity (Net MWe): 1150
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: Items 6 and 7 changed to reflect operation at 100% load.
9. Power Level To Which Restricted, If Any: None
10. Reasons For Restrictions, If Any: Not Applicable

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744.0	5087.0	33216.0
12. Number Of Hours Reactor Was Critical	671.1	2266.1	2460.5
13. Reactor Reserve Shutdown Hours	31.5	852.7	852.7
14. Hours Generator On-Line	564.4	995.4	995.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1565543	2327345	2328436
17. Gross Elec. Energy Generated (MWH)	525522	691544	691544
18. Net Electrical Energy Generated (MWH)	500476	650450	650450
*19. Unit Service Factor	78.5	29.8	29.8
*20. Unit Availability Factor	78.5	29.8	29.8
*21. Unit Capacity Factor (Using MDC Net)	58.6	17.0	17.0
*22. Unit Capacity Factor (Using DER Net)	58.6	17.0	17.0
23. Unit Forced Outage Rate	15.7	26.4	26.4

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Maintenance/Snubber Inspection, 11/03/90, 14 Days

25. If Shut Down At End Of Report Period, Estimated Date Of Startup: Not Applicable
26. Prior to Commercial Operation:

	Forecast	Achieved
INITIAL CRITICALITY	1989	06/13/89
INITIAL ELECTRICITY	1990	05/29/90
COMMERCIAL OPERATION	1990	Not Applicable

* NOTE: Year-to-Date and Cummulative values based on accumulated hours starting 03/15/90, date the full power license was issued.

AVERAGE DAILY UNIT POWER LEVEL

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MONTH JULY, 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	216	16	890
2	488	17	873
3	2	18	874
4	92	19	957
5	487	20	1053
6	0	21	991
7	69	22	1149
8	755	23	1152
9	846	24	1155
10	858	25	1154
11	845	26	996
12	612	27	524
13	515	28	1071
14	827	29	386
15	993	30	0
		31	23

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

REPORT MONTH JULY, 1990

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No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	Cause & Corrective Action to Prevent Recurrence
90-11	07/01/90	F	11.8	A	4	N/A	Steam leak in heater drain piping. Turbine load reduced from 720 MWe. Generator breaker opened. Reactor power being held at 15% RTP. Reducer in heater drain piping to condenser had a crack in it. Excavated the crack area and performed weld repair.

1
F: Forced
S: Scheduled

2
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)

3
Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continued from previous month
5-Power Reduction (Not Factored Into Forced Outage Rate)
9-Other (Explain)

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No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	Cause & Corrective Action to Prevent Recurrence
90-12	07/02/90	F	16	H	5	N/A	Procedure problem during routine surveillance test caused unexpected turbine runback from 815 MWe. Power dropped from 70% to 35% RTP. Turbine load stabilized at 360 MWe. During subsequent load increase piping problem identified in heater drain system. See Item 90-13.
90-13	07/03/90	F	39.3	A	9	N/A	Elbow in heater drain piping indicated below minimum wall thickness. Turbine load reduced from 575 MWe. Generator breaker opened. Reactor power reduced to 10% RTP. Elbow was replaced.
90-14	07/05/90	F	49.5	A	3	N/A	EHC pressure switches on turbine control valves tripped reactor protection system causing automatic reactor trip/turbine trip. Pressure switches tripped falsely as a result of vibration at mounting location. Pressure switches were re-mounted on separate supports.

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No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	Cause & Corrective Action to Prevent Recurrence
90-15	07/12/90	S	55	B	5	N/A	Performed large load reduction test from 75% RTP. Return to 75% slowed by AFD penalty minutes and controller tuning on heater drain system.
90-16	07/16/90	F	84.5	A	5	N/A	Problems with stability in feedwater system forced reduction from 90% to 75% RTP. Placed moisture separators and reheaters in service. Performed controller tuning on heater drain system.
90-17	07/20/90	F	51	A	5	N/A	Problems with stability in feedwater system forced reduction from 100% to 80%. Cleaned strainer on condensate pump. Performed controller tuning on heater drain system and feedwater regulating control valves.
90-18	07/26/90	S	42.5	B	5	N/A	Performed large load reduction test from 100% RTP. Return to 100% slowed by AFD penalty minutes.

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No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	Cause & Corrective Action to Prevent Recurrence
90-19	07/29/90	S	50.5	B	2	N/A	Performed unit trip test from 100% RTP. Performed scheduled heater drain system maintenance.
90-20	07/31/90	F	8.4	A	9	90-018	High vibration on turbine during startup. Reduced load from 180 MWe. Generator breaker opened. Reactor power held at 7%. Rolled turbine on turning gear for 4 hours then commenced normal restart.

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CORRECTIVE MAINTENANCE SUMMARY FOR SAFETY RELATED EQUIPMENT

REPORT MONTH JULY, 1990

DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
07/06/90	Safety Injection	1-SI-PB-936A/B Protection Set 2 HI Containment Pressure Bistable	Bistable failed in service. Replaced bistable.
07/13/90	Primary Component Cooling Water	1-CC-V-1 Train A Primary Component Cooling Water Pump C Discharge Check Valve	Discharge check valve stuck open. Identified during pump swapover. Replaced broken disc washer.

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REFUELING INFORMATION REQUEST

1. Name of facility: Seabrook Unit 1

2. Scheduled date for next refueling shutdown: 07/27/91

3. Scheduled date for restart following refueling: 09/21/91

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

   Unknown at this time.

5. Scheduled date(s) for submitting licensing action and supporting information:

   Not Applicable

6. 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:

   None

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

   (a) In Core: 193 (b) 0

8. 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.

9. 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 sixteen refuelings and full core offload capability.

   The current licensed capacity is adequate until at least the year 2010.