

OPERATING DATA REPORT

Docket No. 50-311
 Date July 10, 1987
 Telephone 935-6000
 Extension 4451

Completed by Pell White

Operating Status

1. Unit Name	<u>Salem No. 2</u>	<u>Notes</u>
2. Reporting Period	<u>June 1987</u>	
3. Licensed Thermal Power (MWt)	<u>3411</u>	
4. Nameplate Rating (Gross MWe)	<u>1170</u>	
5. Design Electrical Rating (Net MWe)	<u>1115</u>	
6. Maximum Dependable Capacity (Gross MWe)	<u>1145</u>	
7. Maximum Dependable Capacity (Net MWe)	<u>1106</u>	
8. If Changes Occur in Capacity Ratings (Items 3 through 7) since Last Report, Give Reason	<u>N/A</u>	

9. Power Level to Which Restricted, if any (Net MWe) NA

10. Reasons for Restrictions, if any N/A

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	<u>720</u>	<u>4343</u>	<u>50088</u>
12. No. of Hrs. Reactor was Critical	<u>609.8</u>	<u>3963.3</u>	<u>29903.2</u>
13. Reactor Reserve Shutdown Hrs.	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>599.9</u>	<u>3925.7</u>	<u>28864.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1766332</u>	<u>11830809</u>	<u>37839281</u>
17. Gross Elec. Energy Generated (MWH)	<u>567860</u>	<u>3871660</u>	<u>29048800</u>
18. Net Elec. Energy Generated (MWH)	<u>544760</u>	<u>3702380</u>	<u>27549787</u>
19. Unit Service Factor	<u>83.3</u>	<u>90.4</u>	<u>57.6</u>
20. Unit Availability Factor	<u>83.3</u>	<u>90.4</u>	<u>57.6</u>
21. Unit Capacity Factor (using MDC Net)	<u>68.4</u>	<u>77.1</u>	<u>49.7</u>
22. Unit Capacity Factor (using DER Net)	<u>67.9</u>	<u>76.5</u>	<u>49.3</u>
23. Unit Forced Outage Rate	<u>16.7</u>	<u>9.6</u>	<u>32.4</u>
24. Shutdowns scheduled over next 6 months (type, date and duration of each)	<u>N/A</u>		

25. If shutdown at end of Report Period, Estimated Date of Startup:

N/A

26. Units in Test Status (Prior to Commercial Operation):

	<u>Forecast</u>	<u>Achieved</u>
Initial Criticality	<u>6/30/80</u>	<u>8/27/80</u>
Initial Electricity	<u>9/1/80</u>	<u>6/3/81</u>
Commercial Operation	<u>9/24/80</u>	<u>10/13/81</u>

8-1-7.R2

UNIT SHUTDOWN AND POWER REDUCTIONS
REPORT MONTH JUNE 1987

Completed by Pell White

Docket No. 50-311
Unit Name Salem No. 2
Date July 10, 1987
Telephone 609-935-6000
Extension 4451

FROM SALEM ADMIN OFFICE

9. 2. 1987 14:21

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No.	Date	Type 1	Duration Hours	Reason 2	Method of Shutting Down		License Event Report	System Code 4	Component Code 5	Cause and Corrective Action to Prevent Recurrence	
					Reactor	Reactor					
0138	06-23-87	F	16.5	A	5		----	IE	TRANSF	Safeguards Buses and associated equipment	
0139	06-24-87	F	4.0	A	5		----	IE	TRANSF	Safeguards Buses and associated equipment	
0140	06-24-87	F	8.25	A	5		----	IE	TRANSF	Safeguards Buses and associated equipment	
141	06-25-87	F	4.58	A	5		----	HA	GENERA	Vibration of the Turbine Generator	
142	06-25-87	F	120.07	A	2		----	HA	GENERA	Vibration of the Turbine Generator	

1 F: Forced S: Scheduled	2 Reason	3 Method	4 Exhibit G Instructions for Prepara- tion of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)	5 Exhibit I Salem as Source
	A-Equipment Failure-explain B-Maintenance or Test C-Refueling D-Regulatory Restriction E-Operator Training & Licensing Exam F-Administrative G-Operational Error-explain H-Other-explain	1-Manual 2-Manual Scram. 3-Automatic Scram. 4-Continuation of Previous Outage 5-Load Reduction 9-Other		

AVERAGE DAILY UNIT POWER LEVEL

Completed by Pell White

Docket No.	<u>50-311</u>
Unit Name	<u>Salem # 2</u>
Date	<u>July 10, 1987</u>
Telephone	<u>609-935-6000</u>
Extension	<u>4451</u>

Month June 1987Day Average Daily Power Level
(MWe-NET)

1	<u>956</u>
2	<u>958</u>
3	<u>965</u>
4	<u>895</u>
5	<u>955</u>
6	<u>966</u>
7	<u>964</u>
8	<u>962</u>
9	<u>876</u>
10	<u>954</u>
11	<u>961</u>
12	<u>963</u>
13	<u>875</u>
14	<u>941</u>
15	<u>956</u>
16	<u>965</u>

Day Average Daily Power Level
(MWe-NET)

17	<u>952</u>
18	<u>967</u>
19	<u>976</u>
20	<u>1036</u>
21	<u>1069</u>
22	<u>1003</u>
23	<u>499</u>
24	<u>319</u>
25	<u>885</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

Pg. 8.1-7 R1

PSE&G SALEM GENERATING STATION
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 2

WO NO	UNIT	EQUIPMENT IDENTIFICATION
00870603042	2	2C DIESEL ENGINE FAILURE DESCRIPTION: 2C DIESEL ENGINE TURBO CHARGER THERMOCOUPLE HAS A CHROMATE LEAK
00870225057	2	2C DIESEL PRELUBE PUMP FAILURE DESCRIPTION: 2C DIESEL PRELUBE PUMP MOTOR HAS ONE OF ITS THREE PHASE WIRES CUT
00870512034	2	UNDERVOLTAGE RELAY FAILURE DESCRIPTION: IMPLEMENT DCR 2EC-2271 UNDERVOLTAGE RELAY PROTECTION MODIFICATION
00870602036	2	4KV BREAKER FAILURE DESCRIPTION: REWORK BREAKER SERIAL #0224A6261-011 4KV BREAKER THAT HAS BEEN REMOVED.
00870602062	2	2B DIESEL PRELUBE PUMP FAILURE DESCRIPTION: 2B DIESEL PRELUBE PUMP DOES NOT SHUT OFF.

SALEM UNIT 2

WO NO UNIT EQUIPMENT IDENTIFICATION

00879502088

2

FAILURE DESCRIPTION: 3.5" CONDUIT WALL SLEEVE PENETRATIONS GOING INTO UNIT
LACKS FIRE SEAL

00870616023

2 2C DIESEL ANNUNCIATOR

FAILURE DESCRIPTION: 2C DIESEL GENERATOR OVERVOLTAGE ON LOCAL ALARM PANEL

00870616051

2 22 PRIMARY WATER
PUMP BREAKER

FAILURE DESCRIPTION: THE BREAKER FOR 22 PRIMARY WATER MAKE-UP PUMP
DOES NOT CLOSE PROPERLY

00870623042

2 2C INVERTER

FAILURE DESCRIPTION: TROUBLESHOOT 2C INVERTER AS PER VENDOR MANUAL AND
MAINTENANCE PROCEDURE M4J

SALEM UNIT 2

WO NO UNIT EQUIPMENT IDENTIFICATION

00870429019	2	2CV185	FAILURE DESCRIPTION: 2CV185 MAKE UP FLOW TO VCT STOP VALVE LEAKS THRU WHEN BAT PUMPS ARE OPERATING
00870511034	2	2NT32	FAILURE DESCRIPTION: 2NT32 NITROGEN SUPPLY TO ACCUMULATORS, VALVE FAILED TO CLOSE
00870527027	2	2LA3390	FAILURE DESCRIPTION: 2LA3390 #2 WIDE CONTAINMENT SUMP LEVEL RECORDER CHANNEL B, REPAIR
00870608018	2	2CV179	FAILURE DESCRIPTION: 2CV179 FAILED TO MANUAL WITH NO AUTO MAKE-UP CAPABILITIES
00870612019	2	RODS	FAILURE DESCRIPTION: ROD SPEED CONTROL WITH NO DEVIATION REQUIRED AUTO ROD MOVEMENT

SALEM UNIT 2

WO NO UNIT EQUIPMENT IDENTIFICATION

00870602088

2

FAILURE DESCRIPTION: 3.5" CONDUIT WALL SLEEVE PENETRATIONS GOING INTO UNIT LACKS FIRE SEAL

00870616023

2

2C DIESEL ANNUNCIATOR

FAILURE DESCRIPTION: 2C DIESEL GENERATOR OVERVOLTAGE ON LOCAL ALARM PANEL

00870616051

2

22 PRIMARY WATER
PUMP BREAKER

FAILURE DESCRIPTION: THE BREAKER FOR 22 PRIMARY WATER MAKE-UP PUMP DOES NOT CLOSE PROPERLY

00870623042

2

2C INVERTER

FAILURE DESCRIPTION: TROUBLESHOOT 2C INVERTER AS PER VENDOR MANUAL AND MAINTENANCE PROCEDURE N4J

SALEM UNIT 2

WO NO	UNIT	EQUIPMENT IDENTIFICATION
00870219026	2	2DAE023 FAILURE DESCRIPTION: 2DAE023 2B DIESEL GEN AIR START MOTOR OILER LEAKING REPLACE O-RING FOR OILER FOR #1 AND #4 AIR START MOTORS
00870225112	2	2B D/G CYLINDER FAILURE DESCRIPTION: 2B D/G CYLINDER COVER LOCKDOWN GASKETS LEAK
00870225125	2	2C D/G CYLINDER FAILURE DESCRIPTION: 2C D/G CYLINDER COVER LOCKDOWN GASKETS LEAK
00870603056	2	2C DIESEL FAILURE DESCRIPTION: 2C DIESEL HAS A FUEL LEAK ON 9 RIGHT CYLINDER, REPLACE FUEL PUMP
00870608048	2	#22 CHARGING PUMP FAILURE DESCRIPTION: #22 CHARGING PUMP SUCTION FLANGES LEAKING, REPLACE GASKETS ON BOTH ENDS OF THE STRAINER SPOOL

SALEM UNIT 2

WO NO UNIT EQUIPMENT IDENTIFICATION

00870609009

2 2B DIESEL GENERATOR

FAILURE DESCRIPTION: 2B DIESEL GENERATOR HAS JACKET WATER LEAK AT FLANGE
ON 9 RIGHT CYLINDER, REPLACE GASKET.

U.S.N.R.C.
M&M-MNBB

'87 SEP -2 P3:45

MAJOR PLANT MODIFICATIONS
REPORT MONTH JUNE 1987

DOCKET NO.: 50-311
UNIT NAME: Salem 2
DATE: July 10, 1987
COMPLETED BY: L. Miller
TELEPHONE: 609/339-4497

DCR NO.	PRINCIPAL SYSTEM	SUBJECT
2EC-1108	Control Room Console	Replace various push-button tags with new tags to incorporate temporary dymo tags and engraved modules with permanently installed printed tags.
2EC-2038	Safety Injection	Replace the existing SI throttling valves with valve specifically designed for metering flow. An additional globe valve will be installed in series with each throttling valve, and will be used as an isolation valve during shutdown.
2SC-1253	RHR Pump Motor Trolley	Install trolley beams to remove the RHR pump shield plugs and motor. Remove and reroute the necessary electrical conduits and the required cable the supplies the power to the lifting hoists.

* Design Change Request

SALEM UNIT 2

WO NO UNIT EQUIPMENT IDENTIFICATION

00870609009

2 2B DIESEL GENERATOR

FAILURE DESCRIPTION: 2B DIESEL GENERATOR HAS JACKET WATER LEAK AT FLANGE
ON 9 RIGHT CYLINDER, REPLACE GASKET.

SALEM GENERATING STATION
MONTHLY OPERATING SUMMARY - UNIT NO. 2
JUNE 1987

The unit began the period operating at eighty eight percent (88%) power and continued to operate at that level until June 4, 1987, when power was reduced due to electrical storm activity in the area. The Unit returned to eighty eight percent (88%) power on June 5, 1987, and continued to operate at that level until June 9, 1987, when power was reduced due to electrical storm activity in the area. The Unit returned to eighty eight percent (88%) power on June 10, 1987, and continued to operate that level until June 13, 1987, when power was reduced due to electrical storm activity in the area. The Unit returned to eighty eight percent (88%) power on June 14, 1987, and continued to operate at that level until June 20, 1987.

On June 20, 1987, the Trip-A-Unit Scheme was energized for the Unit and power was increased to one hundred percent (100%). The Unit continued to operate at that level until June 21, 1987, when a minor load reduction was held to test the power system stabilizer circuit. Power was further reduced to seventy nine percent (79%) on June 22, 1987, due to electrical storms in the area. The Unit returned to one hundred percent (100%) power on June 23, 1987, but load was reduced to thirty five percent (35%) power later the same day due to problems with No. 2C Vital Instrument Bus Inverter. A power escalation was initiated June 24, 1987, following the inverters return to service.

On June 25, 1987, the Unit was removed from service due to apparent high vibration associated with the No. 6 Turbine Bearing and an unusual noise emanating from the vicinity of the steam lines of No. 22 East Moisture Separator Reheater (MSR). A thorough inspection of the low pressure turbines, piping, and MSRs was performed, however, the source of the problem could not be clearly identified. The Unit continued shutdown for investigation for the remainder of the period.

REFUELING INFORMATION

DOCKET NO.: 50-311
COMPLETED BY: L.K. Miller
UNIT NAME: Salem 2
DATE: July 10, 1987
TELEPHONE: 609/935-6000
EXTENSION: 4497

Month JUNE 1987

1. Refueling information has changed from last month:
YES _____ NO X
2. Scheduled date for next refueling: April 9, 1988
3. Scheduled date for restart following refueling: June 8, 1988
4. A) Will Technical Specification changes or other license amendments be required?
YES _____ NO X
B) Has the reload fuel design been reviewed by the Station Operating Review Committee?
YES _____ NO X
If no, when is it scheduled? February, 1988
5. Scheduled date(s) for submitting proposed licensing action:
February 1988 if required
6. Important licensing considerations associated with refueling:
NONE
7. Number of Fuel Assemblies:
A) Incore 193
B) In Spent Fuel Storage 224
8. Present licensed spent fuel storage capacity: 1170
Future spent fuel storage capacity: 1170
9. Date of last refueling that can be discharged to spent fuel pool assuming the present licensed capacity: March 2003



Public Service Electric and Gas Company P.O. Box E Hancock Bridge, New Jersey 08038

Salem Generating Station

July 10, 1987

Director, Office of Management
U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

DESIGNATED ORIGINAL

Certified By *Ina Schwaib*

Dear Sir:

MONTHLY OPERATING REPORT
SALEM NO. 2
DOCKET NO. 50-311

In compliance with Section 6.9.1.6, Reporting Requirements for the Salem Technical Specification, the original copy of the monthly operating reports for the month of June 1987 are being sent to you.

Average Daily Unit Power Level
Operating Data Report
Unit Shutdowns and Power Reductions
Safety Related Maintenance
Major Plant Modification
Operating Summary
Refueling Information

Sincerely yours,

J. M. Zupko, Jr.
J. M. Zupko, Jr.
General Manager - Salem Operations

RH:sl

cc: Mr. William T. Russell
Regional Administrator USNRC
Region I
631 Park Avenue
King of Prussia, PA 19406

Enclosures
8-1-7.R4

The Energy People

USNRC-DS

1987 SEP 10 A 9 55