



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

Salem Generating Station

November 10, 1987

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

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 October 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.  
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

DESIGNATED ORIGINAL

Certified By

AVERAGE DAILY UNIT POWER LEVEL

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

Completed by Pell White

Month October 1987

Day Average Daily Power Level  
(MWe-NET)

Day Average Daily Power Level  
(MWe-NET)

1 1109  
 2 1107  
 3 1099  
 4 1114  
 5 1119  
 6 1100  
 7 1119  
 8 1122  
 9 1112  
 10 1107  
 11 1097  
 12 1113  
 13 1112  
 14 1102  
 15 1130  
 16 1108

17 1133  
 18 1091  
 19 1111  
 20 1106  
 21 1115  
 22 1112  
 23 1030  
 24 38  
 25 0  
 26 0  
 27 0  
 28 0  
 29 0  
 30 0  
 31 0

8712150373 871031  
 PDR ADOCK 05000311  
 R DCD

*PE2P*  
*1/1*

## OPERATING DATA REPORT

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

Completed by Pell White

Operating Status

	<u>Salem No. 2</u>	<u>Notes</u>
1. Unit Name	<u>October 1987</u>	
2. Reporting Period		
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>1149</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) N/A

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>745</u>	<u>7296</u>	<u>53041</u>
12. No. of Hrs. Reactor was Critical	<u>557.1</u>	<u>6067.8</u>	<u>32007.7</u>
13. Reactor Reserve Shutdown Hrs.	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>556.7</u>	<u>5996.8</u>	<u>30935.2</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1882250</u>	<u>18506998</u>	<u>44515470</u>
17. Gross Elec. Energy Generated (MWH)	<u>631280</u>	<u>6074920</u>	<u>31252060</u>
18. Net Elec. Energy Generated (MWH)	<u>610201</u>	<u>5820768</u>	<u>29668173</u>
19. Unit Service Factor	<u>74.7</u>	<u>82.2</u>	<u>58.3</u>
20. Unit Availability Factor	<u>74.7</u>	<u>82.2</u>	<u>58.3</u>
21. Unit Capacity Factor (using MDC Net)	<u>74.1</u>	<u>72.1</u>	<u>50.6</u>
22. Unit Capacity Factor (using DER Net)	<u>73.5</u>	<u>71.6</u>	<u>50.2</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>9.6</u>	<u>31.2</u>
24. Shutdowns scheduled over next 6 months (type, date and duration of each) CURRENTLY IN A MAINTENANCE OUTAGE			

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

12-10-87

UNIT SHUTDOWN AND POWER REDUCTIONS  
 REPORT MONTH OCTOBER 1987

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

Completed by Pell White

No.	Date	Type 1	Duration Hours	Reason 2	Method of Shutting Down Reactor	License Event Report	System Code 4	Component Code 5	Cause and Corrective Action to Prevent Recurrence
0197	10-24-87	S	188.3	B	1	---	ED	CKTBRK	Circuit Breaker Verification

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

FROM SALEM ADMIN OFFICE

12. 9. 1987 12:54

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PSE&G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 2

WO NO	UNIT	EQUIPMENT IDENTIFICATION
870226073	2	21SW24 CONTROL VALVE M-114 FAILURE DESCRIPTION: REPLACE 21SW24 VALVE BODY AND DIAPHRAGM.
870505033	2	2 CAA001 FAILURE DESCRIPTION: DAMPER LEVER ARM BROKEN OFF. MACHINISTS MADE NEW ARM, WELD IN.
870511044	2	2WG41 FAILURE DESCRIPTION: 2WG41 VALVE FAILED LEAK RATE TEST DR MT-87-016 STROKE
870713100	2	22MS168 FAILURE DESCRIPTION: D38 FURMANITE FITTING LEAKING. REPUMP 22MS168 WITH FURMANITE COMPOUND ON VALVE BONNET.
870721021	2	22SW24 FAILURE DESCRIPTION: REPLACE VALVE BODY AND DIAPHRAGM MARK NO. M-114

## SALEM UNIT 2

WO NO	UNIT	EQUIPMENT IDENTIFICATION	
870808043	2	2SJ202	
		FAILURE DESCRIPTION:	2SJ202 HAS A PACKING LEAK, REPACK WITH CHESTERTON PACKING
870809042	2	21 RC13	
		FAILURE DESCRIPTION:	RETORQUE PACKING ON 21 RC13, CLEAN STEM BEFORE TORQUING
870819082	2	25 SW PUMP STRAINER	
		FAILURE DESCRIPTION:	REPLACE #25 SERVICE WATER PUMP STRAINER MOTOR BREAKER OVERLOAD
870821073	2	2B DIESEL GEN. FIELD GROUND ALARM	
		FAILURE DESCRIPTION:	SUPPORT THE ENGINEERING DEPT IN FINDING THE CAUSE OF FIELD GROUND
870824192	2	22SW134 BA104	
		FAILURE DESCRIPTION:	BODY TO BONNET LEAK. REPLACE BONNET GASKET, REPACK WITH TEFLON PACKING

## SALEM UNIT 2

WO NO	UNIT	EQUIPMENT IDENTIFICATION	
870828011	2	21 & 23MS46 VALVES	
		FAILURE DESCRIPTION:	RADIOGRAPH 21 AND 23 MS46 VALVES
870828095	2	22SW39 SUPPLY REGULATOR	
		FAILURE DESCRIPTION:	GAUGE FOR SUPPLY REGULATOR OF 22SW39 BROKEN, REPLACE GAUGE
870901153	2	2TI401 REACTOR VESSEL FLANGE	
		FAILURE DESCRIPTION:	REACTOR VESSEL FLANGE LEAKOFF IND. FAILED, INVESTIGATE, 2TI401 (2TA53581B) FAILED AT MIDSCALE ON 12-8 SHIFT 8-30-87
870904057	2	23AF23	
		FAILURE DESCRIPTION:	23AF23 BODY TO BONNET LEAK, SLUG UP ON BONNET BOLTS
870909047	2	TRANSIENT DATA RECORDER	
		FAILURE DESCRIPTION:	UNIT 2 TRANSIENT DATA RECORDER IS TRIPPED ON FAULT.

MAJOR PLANT MODIFICATIONS  
REPORT MONTH OCTOBER 1987

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

<u>*DCR NO.</u>	<u>PRINCIPAL SYSTEM</u>	<u>SUBJECT</u>
2EC-1182	Radiation Monitoring System	Install an area radiation monitor in the electrical penetration to meet requirements of post accident monitoring in accordance with Reg. Guide 1.97.

\* Design Change Request



MAJOR PLANT MODIFICATIONS  
REPORT MONTH - OCTOBER 1987

DOCKET NO: 50-272  
UNIT NAME: Salem 2  
DATE: November 10, 1987  
COMPLETED BY: J. Ronafalvy  
TELEPHONE: (609) 339-4455

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\*DCR SAFETY EVALUATION 10 CFR 50.59

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2EC-1182

This design change adds an area radiation monitor to the electrical penetration area to meet the requirements of post accident monitoring in accordance with Reg. Guide 1.97. It does not affect any safety related function or the function of the existing Radiation Monitoring System. This change does not affect any process or discharge nor does it affect the environmental impact of the plant. No unreviewed safety or environmental questions are involved.

\* DCR - Design Change Request

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

The Unit began the period operating at one hundred percent power and continued to operate at that level until October 24, 1987, when it was removed from service due to documentation problems associated with electrical configuration control. A plan of action has been established to evaluate the electrical distribution system and to re-establish design basis documentation.

The tube leak in No. 24 Steam Generator (SG) continued to indicate little change until October 15, 1987, when calculations showed a sudden increase to forty-four gallons per day. The leakage continued to increase and was later calculated to be sixty-four gallons per day. The leak will be repaired during the present outage.

## REFUELING INFORMATION

COMPLETED BY: J. Ronafalvy

DOCKET NO.: 50-311  
 UNIT NAME: Salem 2  
 DATE: November 10, 1987  
 TELEPHONE: 609/935-6000  
 EXTENSION 4455

Month OCTOBER 1987

1. Refueling information has changed from last month:  
     YES \_\_\_\_\_ NO X
2. Scheduled date for next refueling: September 2, 1988
3. Scheduled date for restart following refueling: November 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? August, 1988
5. Scheduled date(s) for submitting proposed licensing action:  
     August 1988 if required
6. Important licensing considerations associated with refueling:  
     NONE
7. Number of Fuel Assemblies:  
     A) Incore 93  
     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