



**PSEG**

Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038

Salem Generating Station

June 12, 1989

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 May 1989 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,

L. K. Miller  
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

8906210019 890531  
PDR ADDCK 05000311  
R PNU

The Energy People

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-311  
 Unit Name Salem # 2  
 Date 6-08-89  
 Telephone 609-935-6000  
 Extension 4451

Completed by Art Orticelle

Month MAY 1989

Day Average Daily Power Level  
(MWe-NET)

Day Average Daily Power Level  
(MWe-NET)

1	<u>1104</u>
2	<u>1086</u>
3	<u>1088</u>
4	<u>1097</u>
5	<u>1086</u>
6	<u>1094</u>
7	<u>976</u>
8	<u>1074</u>
9	<u>1056</u>
10	<u>1004</u>
11	<u>1035</u>
12	<u>996</u>
13	<u>1087</u>
14	<u>1020</u>
15	<u>1014</u>
16	<u>1075</u>

17	<u>1084</u>
18	<u>1068</u>
19	<u>1031</u>
20	<u>1057</u>
21	<u>1078</u>
22	<u>1076</u>
23	<u>1086</u>
24	<u>1106</u>
25	<u>1074</u>
26	<u>1067</u>
27	<u>774</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

OPERATING DATA REPORT

Docket No. 50-311  
 Date 6-08-89  
 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>May 1989</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>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>_____</u><br>N/A |              |
| 9. Power Level to Which Restricted, if any (Net MWe)                                       | <u>_____</u><br>N/A |              |
| 10. Reasons for Restrictions, if any   | <u>_____</u><br>N/A |              |

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	<u>744</u>	<u>3623</u>	<u>66912</u>
12. No. of Hrs. Reactor was Critical	<u>662.1</u>	<u>3077.6</u>	<u>41433.4</u>
13. Reactor Reserve Shutdown Hrs.	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>648.32</u>	<u>2922.05</u>	<u>40044.62</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2170394.4</u>	<u>9521035.2</u>	<u>74186132.2</u>
17. Gross Elec. Energy Generated (MWH)	<u>710440</u>	<u>3117055</u>	<u>41001355</u>
18. Net Elec. Energy Generated (MWH)	<u>700535</u>	<u>3048728</u>	<u>39024033</u>
19. Unit Service Factor	<u>87.1</u>	<u>80.7</u>	<u>59.8</u>
20. Unit Availability Factor	<u>87.1</u>	<u>80.7</u>	<u>59.8</u>
21. Unit Capacity Factor (using MDC Net)	<u>85.1</u>	<u>76.1</u>	<u>52.7</u>
22. Unit Capacity Factor (using DER Net)	<u>84.4</u>	<u>75.5</u>	<u>52.3</u>
23. Unit Forced Outage Rate	<u>12.9</u>	<u>19.3</u>	<u>27.9</u>
24. Shutdowns scheduled over next 6 months (type, date and duration of each)	<u>_____</u>		

NONE

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

Unit returned back to service on June 1, 1989 at 0341.

UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH MAY 1989

Docket No. 50-311  
Unit Name Salem No.2  
Date 6-08-89  
Telephone 609-935-6000  
Extension 4451

Completed by Art Orticelle

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
0120	05-09-89	F	0	A	5	---	HF	HTEXCH	CONDENSER TUBE WATER BOX CLEANING
0125	05-12-89	F	0	A	5	---	HF	HTEXCH	CONDENSER TUBE WATER BOX CLEANING
0148	05-28-89	F	85.68	A	1	---	CH	VALVEX	BF19 PROBLEM MODIFICATION

- |   |  |  |  |  |
|---|--|--|--|--|
| <p>1<br/>F: Forced<br/>S: Scheduled</p> | <p>2 Reason<br/>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<br/>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 Exhibit G<br/>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 Exhibit<br/>Salem as<br/>Source</p> |
|---|--|--|--|--|

PSE&G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 2

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WO NO	UNIT	EQUIPMENT IDENTIFICATION
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890501256

2 2FI513

FAILURE DESCRIPTION: 21 S/G STM FLW/LOW INDICATION/REWORK.

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890503086

2 22SW53

FAILURE DESCRIPTION: VLV BODY CORRODED, REPAIR.

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880712157

2 24 INNER PEN AREA EXHAUST FAN

FAILURE DESCRIPTION: REPLACE PER 2SM-00672.

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890528085

2 21-24BF19 FWTR ISO

FAILURE DESCRIPTION: SOV MOD/INCRP. DCP 2SC2025.

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890529061

2 21 BF40 VALVE

FAILURE DESCRIPTION: REPLACE TUBING/VALVE CHANGE TUBING FROM  
3/8" TO 1/2".

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890529062

2 22 BF40 VALVE

FAILURE DESCRIPTION: REPLACE TUBING/VALVE CHANGE TUBING FROM  
3/8" TO 1/2".

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MAJOR PLANT MODIFICATIONS  
REPORT MONTH MAY 1989

DOCKET NO: 50-311  
UNIT NAME: Salem 2  
DATE: June 10, 1989  
COMPLETED BY: P. White  
TELEPHONE: 609/339-4455

*DCR NO.	PRINCIPAL SYSTEM	DESCRIPTION
2EC-02193	Reactor Protection	This design change deleted the direct Reactor Trip following a turbine trip below 50%
2SC-01186	4KV Group Bus	This design change upgraded the undervoltage protection of the 4KV Group Busses, 2E, 2F, 2G, 2H, to prevent the uncontrolled restart of connected equipment upon power restoration to a deenergized 4KV Group Bus.
2SM-0607	Transformers	This design change provided for the installation of a microprocessor based on line transformer gas monitoring system.

\* Design Change Request

MAJOR PLANT MODIFICATIONS  
REPORT MONTH MAY 1989

DOCKET NO: 50-272  
UNIT NAME: Salem 2  
DATE: June 10, 1989  
COMPLETED BY: P. White  
TELEPHONE: (609) 339-4455

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\*DCR SAFETY EVALUATION 10 CFR 50.59

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- 2EC-02193      This design change deleted the direct Reactor Trip following a turbine trip below 50% power. There was no change to any plant process or discharge or to the environmental impact of the plant. No unreviewed safety or environmental questions are involved.
- 2SC-01186      This design change upgraded the undervoltage protection of the 4KV Group Busses, 2E, 2F, 2G, 2H, to prevent the uncontrolled restart of connected equipment upon power restoration to a deenergized 4KV Group Bus. This modification enhances reliability by minimizing the possibility of damage to the reactor Coolant Pump Motors or breakers. There was no change to any plant process or discharge or to the environmental impact of the plant. No unreviewed safety or environmental questions are involved.
- 2SM-0607      This design change provided for the installation of a microprocessor based on line transformer gas monitoring system. Installation of the equipment provides continuous monitoring of the level of combustible gas in transformer oil, allowing early detection of developing problems, thus increasing the safety and reliability of the equipment. There was no change to any plant process or discharge or to 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  
MAY 1989

SALEM UNIT NO. 2

The Unit began the period operating at full power, and, with the exception of some minor load reductions for condenser waterbox cleaning and maintenance of delta T limits, continued to operate at essentially full power until May 27, 1988. On May 27, 1989, power was reduced due to the failure of No. 22W Intercept Valve during a turbine valve test. The Unit was removed from service on May 28, 1989, to comply with Technical specification requirements, due to problems identified with the testing of the Unit 2 main feedwater regulating valves. The problems were corrected and the valves tested satisfactorily on May 29, 1989. The Unit ended the period with startup in progress.

REFUELING INFORMATION

COMPLETED BY: P. White

DOCKET NO.: 50-311  
UNIT NAME: Salem 2  
DATE: June 10, 1989  
TELEPHONE: 609/935-6000  
EXTENSION: 4455

Month MAY 1989

- 1. Refueling information has changed from last month:  
YES X NO
- 2. Scheduled date for next refueling: March 30, 1990
- 3. Scheduled date for restart following refueling: May 15, 1990
- 4. A) Will Technical Specification changes or other license amendments be required?  
YES            NO             
      NOT DETERMINED TO DATE 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 1990

- 5. Scheduled date(s) for submitting proposed licensing action:  
January 1990
- 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