



**PSEG**

Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038-0236

**Nuclear Business Unit**

June 14, 1995

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

Attn.: Document Control Desk

MONTHLY OPERATING REPORT  
SALEM NO. 1  
DOCKET NO: 50-272

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

Sincerely yours,

John C. Summers  
General Manager -  
Salem Operations

RH:vls  
Enclosures

C Mr. Thomas T. Martin  
Regional Administrator USNRC, Region I  
631 Park Avenue  
King of Prussia, PA 19046

8-1-7.R4

9506200068 950531  
PDR ADOCK 05000272  
R PDR

The power is in your hands.

DAY AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-272  
 Unit Name: Salem #1  
 Date: 06/10/95  
 Telephone: 339-2735

Completed by: Robert Phillips

Month MAY 1995

Day Average Daily Power Level  
(MWe-NET)

Day Average Daily Power Level  
(MWe-NET)

1	<u>1048</u>
2	<u>1046</u>
3	<u>1045</u>
4	<u>1074</u>
5	<u>528</u>
6	<u>445</u>
7	<u>505</u>
8	<u>404</u>
9	<u>472</u>
10	<u>453</u>
11	<u>463</u>
12	<u>470</u>
13	<u>468</u>
14	<u>526</u>
15	<u>620</u>
16	<u>914</u>

17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</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>

OPERATING DATA REPORT

Completed by: Robert Phillips

Docket No: 50-272  
 Date: 06/10/95  
 Telephone: 339-2735

Operating Status

1. Unit Name	<u>Salem No. 1</u>	<u>Notes</u>
2. Reporting Period	<u>May 1995</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>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>
12. Hours in Reporting Period	<u>744</u>	<u>3623</u>	<u>157080</u>
12. No. of Hrs. Rx. was Critical	<u>387.3</u>	<u>2660.9</u>	<u>104380.45</u>
13. Reactor Reserve Shutdown Hrs.	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>386.03</u>	<u>2632.09</u>	<u>100388.27</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>829060.8</u>	<u>5781911.6</u>	<u>315833814.4</u>
17. Gross Elec. Energy Generated (MWH)	<u>267840</u>	<u>2689850</u>	<u>105301000</u>
18. Net Elec. Energy Gen. (MWH)	<u>247176</u>	<u>2554430</u>	<u>100236594</u>
19. Unit Service Factor	<u>51.9</u>	<u>72.6</u>	<u>63.9</u>
20. Unit Availability Factor	<u>51.9</u>	<u>72.6</u>	<u>63.9</u>
21. Unit Capacity Factor (using MDC Net)	<u>30.0</u>	<u>63.7</u>	<u>57.7</u>
22. Unit Capacity Factor (using DER Net)	<u>29.8</u>	<u>63.2</u>	<u>57.2</u>
23. Unit Forced Outage Rate	<u>48.1</u>	<u>27.4</u>	<u>21.5</u>

24. Shutdowns scheduled over next 6 months (type, date and duration of each)  
A 60 day refueling outage scheduled to start 9-9-95.

25. If shutdown at end of Report Period, Estimated Date of Startup:  
Start up is presently scheduled for July 5, 1995.

UNIT SHUTDOWN AND POWER REDUCTIONS  
 REPORT MONTH MAY 1995

DOCKET NO.: 50-272  
 UNIT NAME: Salem #1  
 DATE: 6-10-95  
 COMPLETED BY: Robert Phillips  
 TELEPHONE: 609-339-2735

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR	LICENSE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
2577	5-4-95	F	132.9	A	5	-----	CH	PUMPXX	NUCLEAR STEAM GENERATOR FEEDPUMP
2614	5-15-95	F	19.9	A	5	-----	SH	CKTBRK	SWITCHGEAR ROOM VENTILATION
2616	5-16-95	F	4.6	A	4	-----	SH	CKTBRK	SWITCHGEAR ROOM VENTILATION
2671	5-17-95	F	357.97	D	1	-----	SH	CKTBRK	TECH. SPEC. 3.0.3

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continuation of Previous Outage  
 5-Load Reduction  
 9-Other

<sup>4</sup>  
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

<sup>5</sup>  
 Exhibit 1 - Same Source

10CFR50.59 EVALUATIONS  
MONTH: MAY 1995

DOCKET NO: 50-272  
UNIT NAME: SALEM 1  
DATE: 06/10/95  
COMPLETED BY: R. HELLER  
TELEPHONE: 609-339-5162

The following items were evaluated in accordance with the provisions of the Code of Federal Regulations 10CFR50.59. The Station Operations Review Committee has reviewed and concurs with these evaluations.

ITEM	SUMMARY
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1. Design Change Packages (DCP)

- |                     |   |
|---------------------|---|
| 1EC-3387, Pkgs 1- 3 | <p>“EDG 1A, B &amp; C Air Receiver Low Pressure Alarms” Rev. 0 - The purpose of this design change is to install two pressure switches each, along with all associated tubing, valves, and wiring for the starting air receivers for Diesel Generators 1A, 1B &amp; 1C. These pressure switches are to provide new low pressure alarms for each of the starting air receivers. These will provide early warning to the operating personnel so that they can take adequate action to mitigate starting air receiver degraded conditions and maintain the receiver pressure adequate for three diesel starts. The Diesel Air Start System and its components, including instruments, are not the subject of any technical specifications or technical specification basis. There is no reduction in the margin of safety as defined in the basis for any technical specification. (SORC 95-042)</p> |
| 1EC-3252, Pkg. 1    | <p>“Reracking of Spent Fuel Pool for Increased Storage Capacity” Rev. 3 - This DCP removes nine existing Exxon racks and replaces them with nine maximum density Holtec racks. This revision to the DCP is being made to: 1) delete references to the Offset Tool; 2) clarify the rack handling procedure, and 3) address minor errors observed during Part A closure. This revision involves neither the addition, deletion or modification of any equipment designed to monitor or control plant systems or components. There is no reduction in the margin of safety as defined in the basis for any technical specification. (SORC 95-053)</p>  |

10CFR50.59 EVALUATIONS  
MONTH: MAY 1995

DOCKET NO: 50-272  
UNIT NAME: SALEM 1  
DATE: 06/10/95  
COMPLETED BY: R. HELLER  
TELEPHONE: 609-339-5162

(Cont'd)

ITEM	SUMMARY
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2. Temporary Modifications (T-Mod)

95-035

"Temporary Blank for 1VHE838" Rev. 1 - 1VHE57, 12 Switchgear Ventilation Supply Fan and Motor are to be removed for maintenance. To support this activity, the filter plenum, 1VHE838 must be isolated. There is no isolation point on the upstream side of the fan. There is only one on the downstream side. Therefore, the upstream side is to be blanked off. The temporary blank is to be constructed from safety related steel, with a thickness equivalent to or greater than that required of the plenum. The blank will take the place of the current nozzle, there is no loading on the existing nozzle area; immediately downstream is a rubber expansion joint. Therefore, no seismic loading contribution exists. The modification involves neither the addition, deletion or modification of any equipment designed to monitor or control plant systems or components. There is no reduction in the margin of safety as defined in the basis for any technical specification. (SORC 95-051)

95-036

"Temporary Blank for 1VHE838" Rev. 1 - 1VHE58, 13 Switchgear Ventilation Supply Fan and Motor are to be removed for maintenance to replace a bad motor. To support this activity, the filter plenum, 1VHE838 must be isolated. There is no isolation point on the upstream side of the fan. There is only one on the downstream side. Therefore, the upstream side is to be blanked off. The temporary blank is to be constructed from safety related steel, with a thickness equivalent to or greater than that required of the plenum. The blank will take the place of the current nozzle, there is no loading on the existing nozzle area; immediately downstream is a rubber expansion joint.

10CFR50.59 EVALUATIONS  
MONTH: MAY 1995

DOCKET NO: 50-272  
UNIT NAME: SALEM 1  
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COMPLETED BY: R. HELLER  
TELEPHONE: 609-339-5162

(Cont'd)

ITEM	SUMMARY
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Therefore, no seismic loading contribution exists. The modification involves neither the addition, deletion nor modification of any equipment designed to monitor or control plant systems or components. There is no reduction in the margin of safety as defined in the basis for any technical specification. (SORC 95-051)

### 3. Safety Evaluations (S/E)

WO 950513085

"Freeze Seal of 13 Charging Pump Relief Valve Tailpipe" Rev. 0 - The purpose of this proposal is to install a freeze seal on the downstream piping of the Reciprocating Charging Pump discharge relief valve 1CV141. The freeze seal is needed to allow the replacement of the relief valve. The freeze seal will prevent fluid from leaking out of the Volume Control Tank (VCT) while the valve is being replaced. In addition, the freeze seal will block any fluid should relief valves 1CV124 and 1CV253 lift or leak by their seats. However, their relief path will not be affected by the freeze seal. The Chemical and Volume Control System (CVCS) will continue to be operated in accordance with normal operating procedures. At no time during the maintenance evolution, will the requirement that at least one boration injection flow path be available be challenged. The flow path from either Boric Acid Tank or Refueling Water Storage Tank to the Reactor Coolant System (RCS) will not be affected by the proposed activities. The margin of safety as defined in the bases for the technical specifications will not be reduced. (SORC 95-052)

10CFR50.59 EVALUATIONS  
MONTH: MAY 1995

DOCKET NO: 50-272  
UNIT NAME: SALEM 1  
DATE: 06/10/95  
COMPLETED BY: R. HELLER  
TELEPHONE: 609-339-5162

(Cont'd)

ITEM	SUMMARY
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4. Deficiency Reports (DR) Use-As-Is

DR DS1.8-0010/

"DR 950501234 "V5H Fuel Grid Mixing Vanes" Rev. 0 - This safety evaluation is being written to provide a use-as-is disposition to DR 950501234 which documents the non-conforming condition which presently exists in the V5H fuel loaded at Salem Units 1 and 2. During the manufacturing of the 17 x 17 fuel assembly grid straps, the mid-grid mixing vanes were under bent. Westinghouse has since determined that the mean production vane angle for the as loaded Salem V5H fuel assemblies could be as much as 2.2° less than the mean angle in place during design basis DNB testing. Since the vanes are under bent, there is no risk of mechanical contact with a fuel rod. Westinghouse has concluded that the under bent vanes do not adversely affect the mechanical or structural integrity of the fuel assemblies. Westinghouse has determined that a conservative evaluation of the under bent mixing vanes results in a 1.9% DNBR penalty. Since sufficient DNBR margin still exists, no safety limits have been violated and the conclusions of the UFSAR Chapter 15 accident analyses remain valid. The change in vane grid angle does not result in changing any fuel related limits or design failure points. Although generic DNBR margin is affected by this change, the limits as defined by any technical specification basis are not affected. Hence the margin of safety is preserved. (SORC 95-042)



REFUELING INFORMATION  
MONTH: MAY 1995

DOCKET NO: 50-272  
UNIT NAME: SALEM 1  
DATE: 06/10/95  
COMPLETED BY: R. HELLER  
TELEPHONE: 609-339-5162

MONTH : MAY 1995

Refueling information has changed from last month: YES \_\_\_ NO X

Scheduled date for next refueling: September 9, 1995

Scheduled date for restart following refueling: November 7, 1995

a. Will Technical Specification changes or other license amendments be required?

YES X NO \_\_\_

NOT DETERMINED TO DATE \_\_\_

b. Has the reload fuel design been reviewed by the Station Operating Review Committee?

YES \_\_\_ NO X

If no, when is it scheduled? September 1995

Scheduled date(s) for submitting proposed licensing action: N/A

Important licensing considerations associated with refueling:

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Number of Fuel Assemblies:

a. Incore 193  
b. In Spent Fuel Storage 732

Present licensed spent fuel storage capacity: 1632  
Future spent fuel storage capacity: 1632

Date of last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity: September 2008

SALEM GENERATING STATION  
MONTHLY OPERATING SUMMARY - UNIT 1  
MAY 1995

SALEM UNIT NO. 1

The Unit began the period operating at 94% power and continued at that level until 5/4, when load was reduced to 50% to support replacement of both Steam Generator Feedwater Pump (SGFP) governors. A power increase was initiated on 5/14, following completion of SGFP post maintenance testing. On 5/15, the power increase was stopped at 60% due to concerns over operability of equipment serviced by #12 & 13 switchgear supply fans. The #13 fan motor had failed on 5/14, and #12 had been out of service due to a failed motor bearing. The appropriate justification for continued operation with only one fan could not be obtained and a conservative decision was made to shutdown. The Unit was removed from service on 5/17, and remained shutdown throughout the rest of the period.