

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-272
Unit Name Salem # 1
Date January 11, 1988
Telephone 609-935-6000
Extension 4451

Completed by Pell White

Month December 1987

Day Average Daily Power Level
(MWe-NET)

Day Average Daily Power Level
(MWe-NET)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</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>

P. 8.1-7 R1

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PDR ADOCK 05000272
R DCD

IE 2411,

OPERATING DATA REPORT

Docket No .50-272
 Date: January 11, 1988
 Telephone: 935-6000
 Extension: 4451

Completed by Pell White

Operating Status

1. Unit Name	<u>Salem No. 1</u>	<u>Notes</u>
2. Reporting Period	<u>December 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>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) 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>744</u>	<u>8760</u>	<u>92089</u>
12. No. of Hrs. Reactor was Critical	<u>0</u>	<u>6412.5</u>	<u>57695.1</u>
13. Reactor Reserve Shutdown Hrs.	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>0</u>	<u>6363.2</u>	<u>55791.8</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>19612962.8</u>	<u>172269008.8</u>
17. Gross Elec. Energy Generated (MWH)	<u>0</u>	<u>6496490</u>	<u>57194490</u>
18. Net Elec. Energy Generated (MWH)	<u>-3093</u>	<u>6211441</u>	<u>54396209</u>
19. Unit Service Factor	<u>0</u>	<u>72.6</u>	<u>61.1</u>
20. Unit Availability Factor	<u>0</u>	<u>72.6</u>	<u>60.6</u>
21. Unit Capacity Factor (using MDC Net)	<u>0</u>	<u>64.1</u>	<u>53.4</u>
22. Unit Capacity Factor (using DER Net)	<u>0</u>	<u>63.6</u>	<u>53.0</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0.60</u>	<u>24.2</u>

24. Shutdowns scheduled over next 6 months (type, date and duration of each)

N/A

25. If shutdown at end of Report Period, Estimated Date of Startup:
1-12-88

UNIT SHUTDOWN AND POWER REDUCTIONS
 REPORT MONTH DECEMBER 1987

Docket No. 50-272
 Unit Name Salem No.1
 Date January 11, 1988
 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
0280	10-02-87	S	2070	C	1	---	ZZ	ZZZZZZ	REFUELING OUTAGE
0356	12-24-87	-	2839	B	4	---	WA	ZZZZZZ	SERVICE WATER REPAIR

1
 F: Forced
 S: Scheduled

2 Reason
 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

3 Method
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Continuation of
 Previous Outage
 5-Load Reduction
 9-Other

4 Exhibit G
 Instructions
 for Prepara-
 tion of Data
 Entry Sheets
 for Licensee
 Event Report
 (LER) File
 (NUREG 0161)

5 Exhibit 1
 Salem as
 Source

PSE&G SALEM GENERATING STATION
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION	
871016100	1	#1 STATION AIR COMPRESSOR	FAILURE DESCRIPTION: STATION AIR COMPRESSOR HAS SEVERAL LEAKS, REPAIR.
870127015	1	11SJ152	FAILURE DESCRIPTION: VALVE IS LEAKING PAST THE CLOSED SEAT.
870127061	1	1 CC48	FAILURE DESCRIPTION: REPAIR OR REPLACE SEAT AND WEDGE IN VALVE 1CC48.
870127151	1	12RH36	FAILURE DESCRIPTION: VALVE HAS A PINHOLE LEAK IN THE BODY TO BONNET SEAL WELD.
870220022	1	1EP 460V TRANSFORMER FANS	FAILURE DESCRIPTION: 1EP 460V TRANSFORMER FANS DID NOT AUTO START.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
870226027	1	1CV75 XA26 FAILURE DESCRIPTION: REPLACE VALVE BONNET AND REPACK WITH CHESTERTON.
870226055	1	12CV292 FAILURE DESCRIPTION: VALVE SEIZED SHUT, NEEDS TO BE REPLACED.
870311007	1	1TA7206/15 CFCU FAILURE DESCRIPTION: 1TA7206/15 CFCU OUTBOARD BEARING TEMPERATURE FAILED, REPAIR.
870327082	1	1VHE018 DAMPER AIR REGULATOR FAILURE DESCRIPTION: 1VHE018 DAMPER AIR REGULATOR SUPPLY LINE LEAKING. REWORK.
870403043	1	SPDS FAILURE DESCRIPTION: SPDS HAS DISAGREEING POINTS BETWEEN SPDS RACK AND CONTROL.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
870501128	1	13SW065/13CFCU FAILURE DESCRIPTION: 13SW065/13 CONTAINMENT FAN COIL UNIT OUTLET WATER FLOW. REPLACE AIR REGULATOR.
870529086	1	FC-3-21T FAILURE DESCRIPTION: FC-3-21T REPLACE SW EXPANSION JOINT.
870601090	1	1CH168 FAILURE DESCRIPTION: 1CH168 CAAC CONTROL VALVE STRUCK AT 50% OPEN POSITION. INVESTIGATE
870604036	1	START UP PUSHBUTTON FAILURE DESCRIPTION: WHEN THE START UP PUSHBUTTON IS DEPRESSED DURING START UP, WILL NOT RESET ROD COUNTERS.
870622027	1	12MS9 FAILURE DESCRIPTION: 12MS9 BODY TO BONNET LEAK (D-25), REPAIR VALVE.
870623030	1	14GB2 FAILURE DESCRIPTION: PACKING GLAND WAS DRILLED AND FURMANITED. REPLACE VALVE.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
870727061	1	SPOOL 1SW-P-1077A FAILURE DESCRIPTION: 14" S.W. PIPING HAS A PIN HOLE LEAK IN SPOOL 1-SW-P-1077A.
870801092	1	12 REACTOR COOLANT PUMP FAILURE DESCRIPTION: INSPECT AND REPLACE 12 RCP SEAL.
870805022	1	12 CV291 FAILURE DESCRIPTION: VALVE SEIZED SHUT, REPLACE MARK NO. FA-127
870805084	1	11SJ94 FAILURE DESCRIPTION: 11SJ94 COVERED WITH BORON CRYSTALIZATION.
870806121	1	11RH19 FAILURE DESCRIPTION: BODY TO BONNET LEAK. REMOVE VALVE OPERATOR, REPLACE VALVE GASKET.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
870811120	1	1SJ245
		FAILURE DESCRIPTION: 1SJ245 IS FROZEN, AND STEM IS BROKEN, REPLACE WITH A NEW VALVE.
870831088	1	SPOOL 1-SW-493
		FAILURE DESCRIPTION: 4" SPOOL 1-SW-493 HAS A HOLE IN A WELD.
870831091	1	1A 125DC BATTERY
		FAILURE DESCRIPTION: 1A 125 VOLT DC BATTERY. REPLACE COMPLETE BATTERY
870928195	1	11 FAN COIL UNIT
		FAILURE DESCRIPTION: INLET PIPING LEAK. REMOVE LEAKING SPOOL PIECE.
870930102	1	11 SW2
		FAILURE DESCRIPTION: 11SW2 IS HANGING PARTIALLY OPEN. INSTALL REBUILT VALVE FROM WO # 870318046.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
871011053	1	PIPE SPOOL 1-SW-637B FAILURE DESCRIPTION: X-RAY SHOWED PITTING AND CORROSION AROUND WELD 1-SW-637B-298.
871011062	1	SPOOL 1-SW-3146 FAILURE DESCRIPTION: DURING THE 10 YEAR HYDRO, LEAKING WELDS ON SPOOL 1SW3146 WERE FOUND.
871016060	1	1SS27 FAILURE DESCRIPTION: 1SS27 ACCUMULATOR SAMPLE VALVE FAILED LEAK RATE TEST.
871016076	1	12 BAT PUMP FAILURE DESCRIPTION: 12 BORIC ACID TRANSFER PUMP HAS A MECHANICAL SEAL LEAK. REPLACE SEAL.
871017057	1	13CV295 FAILURE DESCRIPTION: 13CV295 HAS FAILED THE LEAK RATE TEST FA-17 VALVE, REWORK.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
871105086	1	P250
		FAILURE DESCRIPTION: P250 IS FAILED, INVESTIGATE AND REPAIR.
871106044	1	12SW39
		FAILURE DESCRIPTION: 12SW39 TEETH ON VANE ARM BROKEN, STUCK IN OPEN POSITION, FIX.
871123195	1	1A DIESEL JACKET WATER COOLER
		FAILURE DESCRIPTION: HEAD ON 1A DIESEL JACKET WATER COOLER IS LEAKING. REPLACE.
871130206	1	1A DIESEL
		FAILURE DESCRIPTION: 1A DIESEL, REPAIR VARIOUS FUEL OIL, LUBE OIL AND JACKET WATER LEAKS.
871209057	1	12 RCP OIL COOLER
		FAILURE DESCRIPTION: 12 RCP OIL COOLER LOWER FLANGE HAS INSUFFICIENT THREAD.
871209080	1	15 CFCU
		FAILURE DESCRIPTION: 15 CFCU WILL NOT START IN HIGH SPEED AND ALSO IN LOW. TROUBLESHOOT.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
871006179	1	#15 FCU MOTOR COOLER PIPE FAILURE DESCRIPTION: SPOOL 1-SW-3062A HAS A THRU WALL LEAK.
871006180	1	#12 FCU MOTOR COOLER PIPE FAILURE DESCRIPTION: DURING THE 10 YEAR HYDRO, A LEAK WAS FOUND IN SPOOL 1-SW-3001A.
871006181	1	1CV55 FAILURE DESCRIPTION: 1CV55 CHARGING CONTROL VALVE STUCK OPEN, CAN NOT CONTROL.
871010044	1	1NT34 FAILURE DESCRIPTION: 1NT34 FAILED LEAK RATE TEST. DIASSEMBLE VALVE AND INSPECT, REPAIR MARK NO. D-22.
871010045	1	1NT26 FAILURE DESCRIPTION: 1NT26 FAILED LEAK RATE TEST. DIASSEMBLE VALVE AND INSPECT, REPAIR MARK NO. D-21.
871011049	1	1SW553A PIPING FAILURE DESCRIPTION: X-RAY SHOWED THAT WELD 1-SW-553A-69 HAS LACK OF FUSION.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
871019088	1	12CA360
		FAILURE DESCRIPTION: 12CA360 FAILED LEAK RATE TEST, DISASSEMBLE, INSPECT AND REWORK AS NECESSARY, D-72.
871019089	1	12CA330
		FAILURE DESCRIPTION: 12CA330 FAILED LEAK RATE TEST, DISASSEMBLE, INSPECT AND REWORK AS NECESSARY, A-171.
871019093	1	1PR17
		FAILURE DESCRIPTION: 1PR17 VALVE FAILED LEAK RATE TEST. DISASSEMBLY, CLEAN AND REPAIR MARK NO. XA-21.
871023063	1	14SW223-AO
		FAILURE DESCRIPTION: 14SW223-AO REPAIR BROKEN AIR SUPPLY TUBING. TUBING IS PULLED OUT AND BROKEN OFF.
871026086	1	13SW243
		FAILURE DESCRIPTION: THE SIXTH ELBOW DOWNSTREAM OF 13SW243 IS LEAKING. REPAIR.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
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871027061

1 12RH19

FAILURE DESCRIPTION: 12RH19 BODY TO BONNET LEAK. REMOVE VALVE OPERATOR,
REPLACE VALVE GASKET.

871027158

1 12 RHR HEAT
EXCHANGER

FAILURE DESCRIPTION: 12 RHR HEAT EXCHANGER HEAD GASKET LEAKS, REPLACE
GASKET.

871030040

1 11 RHR HEAT
EXCHANGER

FAILURE DESCRIPTION: 11 RHR HEAT EXCHANGER HEAD GASKET LEAKS, REPLACE
GASKET.

871101128

1 1SW139

FAILURE DESCRIPTION: REPLACE THE PIPING UPSTREAM OF 1SW139 (VALVE) THAT
IS CRACKED.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
871212059	1	12CS48
		FAILURE DESCRIPTION: 12CS48 FAILED LEAK RATE TEST. TROUBLESHOOT.
871219143	1	13SJ54
		FAILURE DESCRIPTION: DURING MANUAL S.I. TESTING, 13SJ54 IS REQUIRED TO OPEN, DID NOT, TROUBLESHOOT.
871219145	1	1C D/G
		FAILURE DESCRIPTION: 1C D/G FIELD FLASH FAILED, TROUBLESHOOT FIELD FLASH CIRCUIT.
871219161	1	1 CV55
		FAILURE DESCRIPTION: 1CV55 CHARGING PUMP FLOW CONTROL VALVE, TROUBLESHOOT VALVE PROBLEM.
871219178	1	HEAT TRACE CIRCUIT 418
		FAILURE DESCRIPTION: HEAT TRACE # 418 IS DAMAGED (SHORTED TO THE PIPING). REWORK.

SALEM UNIT 1

WO NO UNIT EQUIPMENT IDENTIFICATION

871228113

1 1CV77

FAILURE DESCRIPTION: 1CV77 EXCEEDS ITS PREVIOUS STROKE TIME BY 25%,
TROUBLESHOOT.

871228125

1 1CV79

FAILURE DESCRIPTION: 1CV79 EXCEEDS ITS PREVIOUS STROKE TIME BY 25%,
TROUBLESHOOT.

MAJOR PLANT MODIFICATIONS
REPORT MONTH DECEMBER 1987

DOCKET NO.: 50-311
UNIT NAME: Salem 2
DATE: January 11, 1988
COMPLETED BY: J. Ronafalvy
TELEPHONE: 609/339-4455

*DCR NO.	PRINCIPAL SYSTEM	SUBJECT
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Information not available for this report due to changes in system.
This information will be included in next report.

* Design Change Request

SALEM GENERATING STATION
MONTHLY OPERATING SUMMARY - UNIT NO. 1
DECEMBER 1987

The Unit entered the period shutdown as the Seventh Refueling Outage continued. During the period, the Reactor Flux Thimble wear inserts were machined using the electro-discharge method (EDM) to eliminate interference problems with the fuel assemblies. A total of twenty five Type I and 1 Type II wear inserts were machined. Following completion of the EDM machining job, the core was reloaded and the Reactor reassembled.

The Steam Generator ten year hydro's were completed and the plant entered Mode 5 on December 12, 1987. Charging System Full Flow and Manual Safety Injection Tests were also completed.

Two Service Water System related problems occurred during the period. On December 23, 1987, the No. 1 Service Water Bay flooded completely due to the failure of an isolation valve during maintenance. The Service Water Bay 1 flood recovery activities continued throughout the remainder of the period. On December 29, 1987, a severe Service Water flange leak developed in the Auxiliary Building while returning No. 11 Service Water Header to service. The flange leak was repaired and the header returned to service later that evening.

REFUELING INFORMATION

COMPLETED BY: J. Ronafalvy DOCKET NO.: 50-272
UNIT NAME: Salem 1
DATE: January 11, 1988
TELEPHONE: 609/935-6000
EXTENSION: 4497

Month DECEMBER 1987

1. Refueling information has changed from last month:
YES X NO _____
2. Scheduled date for next refueling: March 4, 1989
3. Scheduled date for restart following refueling: April 18, 1989
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? January 1989
5. Scheduled date(s) for submitting proposed licensing action:
January if required
6. Important licensing considerations associated with refueling:
NONE

7. Number of Fuel Assemblies:
A) Incore 193
B) In Spent Fuel Storage 464
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: September 2001



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

Salem Generating Station

January 11, 1988

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

Dear Sir:

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 December 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,

A handwritten signature in cursive script, appearing to read "J. M. Zupko, Jr.", is written over the typed name.

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

Handwritten initials "JEB" and a checkmark.