

# AVERAGE DAILY UNIT POWER LEVEL

Completed by L. K. Miller

Docket No. 50-272  
 Unit Name Salem # 1  
 Date Jan. 10, 1984  
 Telephone 609-935-6000  
 Extension 4455

Month December 1983

Day Average Daily Power Level  
 (MWe-NET)

1	<u>1106</u>
2	<u>1111</u>
3	<u>1109</u>
4	<u>1102</u>
5	<u>1108</u>
6	<u>1089</u>
7	<u>1110</u>
8	<u>1107</u>
9	<u>1104</u>
10	<u>1105</u>
11	<u>1107</u>
12	<u>1107</u>
13	<u>1065</u>
14	<u>1109</u>
15	<u>1109</u>

Day Average Daily Power Level  
 (MWe-NET)

16	<u>1028</u>
17	<u>1044</u>
18	<u>884</u>
19	<u>1096</u>
20	<u>1092</u>
21	<u>1113</u>
22	<u>1097</u>
23	<u>1084</u>
24	<u>1072</u>
25	<u>1078</u>
26	<u>821</u>
27	<u>1105</u>
28	<u>1074</u>
29	<u>1111</u>
30	<u>139</u>
31	<u>0</u>

P. 8,1-7 R1

8401240117 831231  
 PDR ADOCK 05000272  
 R PDR

# OPERATING DATA REPORT

Docket No. 50-272  
 Date Jan. 10, 1984  
 Telephone 935-6000  
 Extension 4455

Completed by L. K. Miller

## Operating Status

- |  |               |       |
|--|---------------|-------|
| 1. Unit Name   | Salem No. 1   | Notes |
| 2. Reporting Period  | December 1983 |       |
| 3. Licensed Thermal Power (MWt)  | 3338          |       |
| 4. Nameplate Rating (Gross MWe)  | 1135          |       |
| 5. Design Electrical Rating (Net MWe)  | 1090          |       |
| 6. Maximum Dependable Capacity (Gross MWe)   | 1124          |       |
| 7. Maximum Dependable Capacity (Net MWe)   | 1079          |       |
| 8. If Changes Occur in Capacity Ratings (items 3 through 7) since Last Report, Give Reason | N/A           |       |
| 9. Power Level to Which Restricted, if any (Net MWe)                                       | N/A           |       |
| 10. Reasons for Restrictions, if any   | N/A           |       |

	This Month	Year to Date	Cumulative
11. Hours in Reporting Period	744	8760	57769
12. No. of Hrs. Reactor was Critical	716.6	5426.1	33141.2
13. Reactor Reserve Shutdown Hrs.	27.4	2060.8	3033.9
14. Hours Generator On-Line	707.5	5130	31777.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2291066	16649180	95819371
17. Gross Elec. Energy Generated (MWH)	784020	5650250	31615100
18. Net Elec. Energy Generated (MWH)	752386	5376459	29971312
19. Unit Service Factor	95.1	58.6	55.0
20. Unit Availability Factor	95.1	58.6	55.0
21. Unit Capacity Factor (using MDC Net)	93.7	56.9	48.1
22. Unit Capacity Factor (using DER Net)	92.8	56.3	47.6
23. Unit Forced Outage Rate	4.9	34.5	29.1
24. Shutdowns scheduled over next 6 months (type, date and duration of each)			

Refueling 5-5-84

25. If shutdown at end of Report Period, Estimated Date of Startup:  
 N/A
26. Units in Test Status (Prior to Commercial Operation):

	Forecast	Achieved
Initial Criticality	9/30/76	12/11/76
Initial Electricity	11/1/76	12/25/76
Commercial Operation	12/20/76	6/30/77

8-1-7.R2

UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH DECEMBER 1983

Docket No. 50-272  
Unit Name Salem No.1  
Date Jan. 10, 1984  
Telephone 609-935-6000  
Extension 4455

Completed by L.K. Miller

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
83-422	11/30	F	35.1	B	5	-	HC	HTEXCH	Condenser Tube and Water Box Cleaning
83-426	12/01	"	30.1	"	"	"	HC	"	" "
83-427	12/01	"	61.5	"	"	"	HC	"	" "
83-428	12/02	"	4.7	B	"	"	"	"	" "
83-430	12/04	F	1.0	B	5	-	HF	FILTER	Traveling Screens/ Trash Racks/ Canal Screens
83-432	12/05	"	3.4	"	"	"	HF	"	" "
83-434	12/05	F	3.1	B	5	"	HF	"	" "
83-435	12/05	"	47.0	B	5	-	"	"	" "
83-436	12/06	"	4.7	"	"	"	HC	HTEXCH	Condenser Tube and Waterbox Cleaning

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 Preparation of Data  
Entry Sheets  
for Licensee  
Event Report  
(LER) File  
(NUREG 0161)

5 Exhibit 1  
Salem as  
Source

UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH DECEMBER 1983

Completed by L.K. Miller

Docket No. 50-272  
Unit Name Salem No.1  
Date Jan. 10, 1984  
Telephone 609-935-6000  
Extension 4455

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
83-438	12/07	F	30.0	B	5	-	HC	HTEXCH	Condenser Tube and Waterbox Cleaning Traveling Screens/ Trash Racks/ Canal Screens
83-440	12/08	F	2.8	"	"	"	HF	FILTER	Main Stop Valves Turbine
83-442	12/08	F	2.0	"	"	"	HB	VALVEX	Traveling Screens/ Trash Racks/ Canal Screens
83-444	12/08	"	7.7	"	"	"	HF	FILTER	" "
83-446	12/08	"	4.5	B	5	"	HF	"	Condenser Tube and Water Box Cleaning Traveling Screen/ Trash Racks Canal Screen
83-448	12/09	F	2.2	"	5	-	HC	HTEXCH	" "
83-450	12/09	"	6.6	B	"	"	HF	FILTER	" "
83-452	12/09	"	0.2	"	"	"	"	"	" "
83-454	12/09	"	20.0	"	"	"	HF	FILTER	Condenser Tube and Water Box Cleaning
83-456	12/09	"	4.4	B	5	"	HC	HTEXCH	

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 Preparation  
of Data  
Entry Sheets  
for Licensee  
Event Report  
(LER) File  
(NUREG 0161)

5 Exhibit 1  
Salem as  
Source

UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH DECEMBER 1983

Docket No. 50-272  
Unit Name Salem No.1  
Date Jan. 10, 1984  
Telephone 609-935-6000  
Extension 4455

Completed by L.K. Miller

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
83-458	12/11	F	4.4	B	5	-	HF	FILTER	Traveling Screens/ Trash Racks/ Canal Screens
83-460	12/11	"	7.9	"	"	"	"	FILTER	" "
83-462	12/11	"	3.0	"	"	"	HF	FILTER	" "
83-464	12/12	"	1.5	"	"	"	HC	HTEXCH	Condenser Tube and Water Box Cleaning
83-466	12/12	F	3.3	B	5	-	HC	"	" "
83-468	12/13	"	2.2	"	"	"	"	"	" "
83-470	12/14	F	2.9	B	5	-	HC	HTEXCH	" "
83-472	12/14	"	12.2	"	"	"	"	"	" "
83-474	12/14	"	5.1	"	"	"	"	"	" "

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 Preparation of Data  
Entry Sheets  
for Licensee  
Event Report  
(LER) File  
(NUREG 0161)

5 Exhibit 1  
Salem as  
Source



UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH DECEMBER 1983

Docket No. 50-272  
Unit Name Salem No.1  
Date Jan. 10, 1984  
Telephone 609-935-6000  
Extension 4455

Completed by L.K. Miller

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
83-476	12/15	F	1.3	B	5	-	HB	VALVEX	Intercept Valves Turbine
83-478	12/15	"	10.0	"	"	"	HF	FILTER	Traveling Screens/ Trash Racks/ Canal Screens
83-480	12/15	"	0.6	A	"	"	"	"	Screen Drive Sheer Pin Broken
83-482	12/15	"	4.5	B	"	"	HC	HTEXCH	Condenser Tube and Waterbox Cleaning
83-484	12/16	F	7.5	B	5	-	HF	FILTER	Traveling Screens Trash Racks/ Canal Screens
83-486	12/16	"	0.7	"	"	"	HF	FILTER	" "
83-488	12/16	F	4.8	D	5	-	SA	ZZZZZZ	Nuclear Other Containment System Problems
83-492	12/16	"	3.2	"	"	"	"	"	" "
83-494	12/17	"	6.2	B	"	"	HF	FILTER	Traveling Screens/ Trash Racks/ Canal Screens
83-496	12/17	F	0.7	B	5	-	HF	FILTER	" "

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 Preparation  
of Data  
Entry Sheets  
for Licensee  
Event Report  
(LER) File  
(NUREG 0161)

5 Exhibit 1  
Salem as  
Source

UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH DECEMBER 1983

Docket No. 50-272  
Unit Name Salem No.1  
Date Jan. 10, 1984  
Telephone 609-935-6000  
Extension 4455

Completed by L.K. Miller

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
83-498	12/17	F	8.0	B	5	-	HC	HTEXCH	Condenser Tube and Water Box Cleaning
83-500	12/17	"	1.7	"	5	"	HJ	ZZZZZZ	Other Feedwater System Problems
83-502	12/18	"	6.1	"	5	"	"	"	" "
83-504	12/18	"	1.7	B	5	"	HF	FILTER	Traveling Screens/ Trash Rack Canal Screens
83-506	12/19	F	3.0	"	"	"	HC	HTEXCH	Condenser Tube and Waterbox Cleaning
83-508	12/19	"	11.5	"	"	"	HC	"	" "

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

UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH DECEMBER 1983

Docket No. 50-272  
Unit Name Salem No.1  
Date Jan. 10, 1984  
Telephone 609-935-6000  
Extension 4455

Completed by L.K. Miller

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 Condenser Tube and Waterbox Cleaning
83-510	12/20	F	11.6	B	5	---	HC	HTEXCH	
83-512	12/20	"	2.9	"	"	"	"	"	" "
83-514	12/21	"	3.6	"	"	"	"	"	" "
83-516	12/21	F	3.3	B	5	---	HC	HTEXCH	Condenser Tube and Waterbox Cleaning
83-518	12/22	"	3.1	"	"	"	"	"	" "
83-520	12/22	"	2.5	"	"	"	"	"	" "
83-522	12/23	"	2.3	"	"	"	"	"	" "
83-524	12/24	F	4.9	B	5	---	HC	HTEXCH	" "
83-526	12/25	"	0.6	"	"	"	HF	FILTER	Traveling Screens/ Trash Racks/ Canal Screens
83-528	12/25	"	8.7	"	"	"	SA	ZZZZZZ	Nuclear Other Containment System Problems

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 Preparation  
of Data  
Entry Sheets  
for Licensee  
Event Report  
(LER) File  
(NUREG 0161)

5 Exhibit 1  
Salem as  
Source



UNIT SHUTDOWN AND POWER REDUCTIONS  
REPORT MONTH DECEMBER 1983

Docket No. 50-272  
Unit Name Salem No.1  
Date Jan. 10, 1984  
Telephone 609-935-6000  
Extension 4455

Completed by L.K. Miller

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 Other Circulating Water System Problem Condenser Tube and Waterbox Cleaning
83-530	12/25	F	3.7	B	5	---	HF	ZZZZZZ	
83-532	12/27	"	3.3	"	"	"	HC	HTEXCH	
83-534	12/28	"	3.4	"	"	"	"	"	" "
83-536	12/29	F	2.9	B	5	---	HC	HTEXCH	" "
83-538	12/29	F	8.3	B	5	"	HF	VALVEX	Circulating Water Valves
83-540	12/30	F	1.9	"	"	"	HF	FILTER	Traveling Screens/ Trash Racks/ Canal Screens
83-542	12/30	"	0.6	"	"	"	"	ZZZZZZ	Intake System Problems Other Than Traveling Screens Circ. Water
83-544	12/30	"	1.0	"	"	"	"	"	" "
83-546	12/30	F	7.4	B	5	---	HF	ZZZZZZ	" "
83-548	12/30	F	33.2	A	1	"	HI	HTEXCH	Nuclear Steam Generator Flanges/ Manways/Fittings
83-550	12/31	F	3.4	"	3	"	"	"	Nuclear Other Steam Generator Problems

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

*DCR NO.	PRINCIPLE SYSTEM	SUBJECT
1EC-0724	Roadway Lighting	Add roadway lighting in No. 1 Unit yard to provide proper illumination.
1EC-0918	Radiation Monitoring System to Control Facilities Building	Add regulated air sample to fume exhaust and ventilation exhaust ducts.
1ET-1165	#14 Fan Coil Motor	Add temperature connections to the #14 Fan Coil Motor housing access plate.
1SC-0033A	Gas Turbine	Provide pulse inputs into the GETAC system.
1SC-0151	Chilled Water	Provide EAC air compressors cooling to Chilled Water System.
1SS-0012	Ventilation System	Provide a supply and exhaust system for the north penetration area El. 100'.

MAJOR PLANT MODIFICATIONS  
REPORT MONTH DECEMBER 1983

DOCKET NO.: 50-272  
UNIT NAME: Salem 1  
DATE: January 10, 1984  
COMPLETED BY: L.K. Miller  
TELEPHONE: 609/339-4455

---

\*DCR NO.                      SAFETY EVALUATION    10 CFR 50.59

---

- 1EC-0724      Installation of this DCR will not affect any safety function of the system. No unreviewed safety or environmental questions are involved.
- 1EC-0918      The monitors being added were not used in the calculations for any presently performed safety analysis. No unreviewed safety or environmental questions are involved.
- 1ET-1165      The addition of thermometer connections to the fan coil motor housing does not affect the safe shutdown of the plant. No unreviewed safety or environmental questions are involved.
- 1SC-0033A     The implementation of this DCR requires the penetration of existing fire barriers. However, instructions for resealing the penetrations to maintain the fire barrier rating are included. No unreviewed safety or environmental questions are involved.
- 1SC-0151      Implementation of this DCR will not create any new safety hazards, nor will it effect any presently performed safety analysis. No unreviewed safety or environmental questions are involved.
- 1SS-0012      Provision of cooling in the mechanical penetration area does not affect any presently performed safety analysis nor does it create any new safety hazards. No unreviewed safety or environmental questions are involved.

\*DCR - Design Change Request

P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
942706	IC	1	RMS, 1R41 APD
			FAILURE DESCRIPTION: CHECK PAPER DRIVE OPERATION. 831110
			CORRECTIVE ACTION: FOUND BROKEN RACHET SPRING AND TAKE-UP MOTOR BINDINGS. REPLACED SPRING, MOTOR AND TAKE-UP REER GEARS. LUBRICATED GEAR BUSHING. 831110
934006	MD	1	12B FEEDWATER HEATER
			FAILURE DESCRIPTION: TEST FOR AND REPAIR TUBE LEAKS. 830811
			CORRECTIVE ACTION: FOUND 2 LEAKS WITH VACUUM AND 4 WITH 1000 PSI HYDRO. PLUGGED 12 ENDS.
934007	MD	1	12C FEEDWATER HEATER
			FAILURE DESCRIPTION: TEST FOR AND REPAIR TUBE LEAKS. 830811.
			CORRECTIVE ACTION: FOUND 2 LEAKS WITH VACUUM AND NONE WITH 1000 PSI HYDRO. PLUGGEED 4 ENDS. 830814.
934029	MD	1	16 SW PUMP STRAINER
			FAILURE DESCRIPTION: SHEAR PIN BROKEN. 830813
			CORRECTION ACTION: REPLACE LOWER WEAR PLATE AND SHOES. INSTALLED CLEAN STRAINERS. 830817.
934030	MD	1	AUX FD PMP RM. COOLER
			FAILURE DESCRIPTION: LEAK ON U BEND ON SERVICE WATER SIDE OF COOLING COIL. 830815
			CORRECTIVE ACTION: CLEANED AND REPAIRED WITH BELZONA. 830815.
937853	GD	1	12 COMP COOLING
			FAILURE DESCRIPTION: ROOM COOLER IS LEAKING RADLY. 830721.
			CORRECTIVE ACTION: REPAIRED 4 LEAKING ELBOWS USING COPPER BELZONA. 830818.

P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
938916	OD	1	12,13, 14MS167
			FAILURE DESCRIPTION: OIL NOT VISIBLE IN SIGHT GLASS ON 12 AND 13MS167. OIL LEVEL ABOUT 1/4 INCH IN 14MS167. 830823.
			CORRECTIVE ACTION: FILLED 12,13, 14MS167 AND CHECKED 11MS167. 830823.
938918	OD	1	1A1 28VDC BATT. CHGR
			FAILURE DESCRIPTION: BATTERY CHARGER FAILED DURING PERFORMANCE OF PI/S-DC1. 830824.
			CORRECTIVE ACTION: REPLACED DC BREAKER AND PERFORMED LOAD TEST. SAT. 830826.
938794	OD	1	PZR HTR BUS BKR.
			FAILURE DESCRIPTION: BKR 1EP7X DEION TRIPS FOR NO APPARENT REASON. 830821.
			CORRECTIVE ACTION: FOUND BKR TO BE FAULTY. INSTALLED NEW BREAKER IN 1EP7X AND ALSO IN 1EP13X WHICH WAS ALSO TRIPPING. 830826.
938839	OD	1	12 BA TRANSFER PUMP
			FAILURE DESCRIPTION: PUMP BREAKER TRIPPED AFTER ONLY A FEW MINUTES OF OPERATION. 830821.
			CORRECTIVE ACTION: DISASSEMBLED PUMP AND REPLACED SHAFT IMPELLER, BEARINGS AND OIL SEALS. 830825.
938433	OD	1	12 CC PMP RM COOLER
			FAILURE DESCRIPTION: COOLER HAS SERVICE WATER LEAK OF APPROX. 1 GPM FROM AREA OF COOLING COILS. 830713.
			CORRECTIVE ACTION: TWO PINHOLE LEAKS REPAIRED WITH COPPER BELZONA. 830715.
938442	OD	1	AUX. BLDG. SUPPLY FAN
			FAILURE DESCRIPTION: TRIPS OUT. 830715
			CORRECTIVE ACTION: NOTHING CONCLUSIVE FOUND DURING TROUBLESHOOT. INCREASED LONG TIME TRIP ON BKR TO 90 AMPS STARTED 6 TIMES WITHOUT TRIP. BKR TESTED FOR OVERLOAD. TEST IAW M3Q. 830817.



P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
985770	CS	1	12SW20
			FAILURE DESCRIPTION: REMOVE AND DISASSEMBLE VALVE FOR INSPECTION OF SHAFT BEARINGS. REPAIR AS REQUIRED. 821101.
			CORRECTIVE ACTION: REMOVED, INSPECTED AND REPAIRED VALVE. 830816.
938991	OD	1	11 CHILLED WTR PUMP
			FAILURE DESCRIPTION: PUMP INBOARD SEAL IS LEAKING EXCESSIVELY. 830819.
			CORRECTIVE ACTION: REPLACED MECHANICAL SEAL, OUTBOARD OIL SEAL, CERAMIC DISC AND GASKETS. 830916.
939154	OD	1	16 SW PUMP STRAINER
			FAILURE DESCRIPTION: STRAINER HAS BROKEN SHEAR PIN. 830914.
			CORRECTIVE ACTION: CHANGED PIN AND REPLACED STRAINERS. ONE STRAINER WAS BROKEN AND JAMMED. 830916.
938958	OD	1	11 CHARGING PUMP
			FAILURE DESCRIPTION: SPEED INCREASER AIR BREATHER FOUND SPEWING OIL AND TEMPERATURE WAS ABOUT 50 DEGREES HIGHER THAN LAST WEEK. SUSPECT CIL RESERVOIR WAS OVERFILLED. 830815.
			CORRECTIVE ACTION: REPLACED GEAR BOX. 830818.
936789	OD	1	16SW24 STRNR BACKWASH
			FAILURE DESCRIPTION: VALVE BLOWING WATER. LOOKS LIKE BLOWN DIAPHRAM. 830831.
			CORRECTIVE ACTION: INSTALLED NEW BODY AND DIAPHRAM. 830907.
938125	OD	1	15 CONT FAN COIL UNIT
			FAILURE DESCRIPTION: OUTLET SW LINE BEFORE 15SW223 HAS 1/4 INCH HOLE IN PIPE. 830728.
			CORRECTIVE ACTION: PAD WELDED OUTSIDE AND APPLIED BELZONA TO INSIDE OF PIPE. REMOVED TUBE BUNDLE FROM 15SW223 IAW DR MD83-2977. PERFORMED MT OF WELD AND INSERVICE HYDRO. 803804.

P S F & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
933866	OD	1	CONT AIR LOCK EL. 100
FAILURE DESCRIPTION: TEAR ON INNER DOOR SEAL. 830812.			
CORRECTIVE ACTION: INSTALLED NEW DOOR SEAL. 830812.			
933820	OD	1	13 CHARGING PUMP
FAILURE DESCRIPTION: LEAK ON PUMP SEALS HAS INCREASED TO 1.2 GPM and IS CAUSING HIGH AIRBORNE ACTIVITY IN THE AREA.			
CORRECTIVE ACTION: REPACKED 5 CYLINDERS ON PUMP. 830901.			
933805	OD	1	15 SW PUMP STRAINER
FAILURE DESCRIPTION: STRAINER HAS BROKEN SHEAR PIN. 830806.			
CORRECTIVE ACTION: REPLACED SHOES AND SHEAR KEY. 830806.			
933797	OD	1	1A DIESEL GEN
FAILURE DESCRIPTION: 1A DIESEL GEN ALARM PANEL LOWER SECTION INOPERABLE DUE TO BLOWN FUSE WHICH WHEN REPLACED, INSTANTLY BLEW NEW FUSE. 830804.			
CORRECTIVE ACTION: REPLACED LOWER POWER SUPPLY FOR ANNUNCIATOR WORKS SAT. 830805.			
931734	MD	1	SPARE SW PUMP
FAILURE DESCRIPTION: REBUILD SPARE PUMP WHICH WAS REMOVED FROM #13 HOLE. PUMP HAD NO DISCHARGE HEAD. 830707.			
CORRECTIVE ACTION: REBUILT PUMP. 830822.			
924360	RE	1	INCORE FLUX MAP SYS
FAILURE DESCRIPTION: CHANNEL "A" DRIVE 5 PATH WILL NOT ROTATE.			
CORRECTIVE ACTION: BROKE MOTOR FREE, TESTED SAT. 830804.			

P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
929974	IC	1	VALVE 11MS10
			FAILURE DESCRIPTION: VALVE LEAKS THROUGH. VALVE STROKE WAS CHECKED. 830726.
			CORRECTIVE ACTION: REPLACED SEAT RING GASKET, BODY GASKET AND REPACKED VALVE. 830809.
934090	MD	1	15SW24 SCREEN WASH
			FAILURE DESCRIPTION: VALVE LINING RIPPED. 830819.
			CORRECTIVE ACTION: INSTALLED NEW VALVE BODY. 830821.
936823	OD	1	12 CC ROOM COOLER
			FAILURE DESCRIPTION: SERVICE WATER LEAK. 830903.
			CORRECTIVE ACTION: REPAIRED LEAK WITH MOLECULAR BELZONA AND CU90 U-TUBES. 830904.
935597	OD	1	12 CC ROOM COOLER
			FAILURE DESCRIPTION: SERVICE WATER LEAK IN ROOM COOLER. 831018.
			CORRECTIVE ACTION: REPAIRED LEAK USING BELZONA CONDUCTIVE METAL. 83114.
936890	OD	1	12 S/G FEED PUMP
			FAILURE DESCRIPTION: SPEED DEMAND-SPEED MISMATCH. 830908.
			CORRECTIVE ACTION: VERIFIED FEED PUMP SHAFT SPEED. REPLACED WOODWARD SIGNAL CONVERTED AND CALIBRATED IAW DELAVAL INST. 83112.
936926	OD	1	PZR PRESS CONTROL
			FAILURE DESCRIPTION: 1 PSI DOES NOT RESPOND TO PRESSURE CONTROL IN AUTO BUT WILL OPEN IN MANUAL. 831110.
			CORRECTIVE ACTION: ADJUSTED CONTROLLER BUT DOES NOT SEEM TO BE INTEGRATING PROPERLY. REPLACED AUTO/MANUAL STATION AND CONTROLLER CHECKS SAT. 83115.

P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
991779	OD	1	22 S/G FEED PUMP FAILURE DESCRIPTION: PUMP INBOARD OIL SEAL STARTING TO ROCK IN. 820601. CORRECTIVE ACTION: REPLACED OIL SEAL. 830730.
937529	OD	1	11 SW PUMP STRAINER FAILURE DESCRIPTION: SHEAR KEY BROKEN. 830926. CORRECTIVE ACTION: REPLACED LOWER SHOES AND SHEAR KEY. 830926.
937530	OD	1	CONT AIR LOCK EL. 100 FAILURE DESCRIPTION: FAILED LEAK RATE TEST. 830926. CORRECTIVE ACTION: REPLACED BOTH SEAL ON OUTER DOOR. 830926.
937532	OD	1	1AMS10, ATMOS RELIEF FAILURE DESCRIPTION: VALVE LEAKING THROUGH STROKE VALVE. 830926. CORRECTIVE ACTION: REPLACED RELAY IN POSITIONER. REMOVED LIMIT SWITCHES FOR MAINT. TO REPACK VALVE. STROKE VALVE AFTER MAINT. TEST SAT. 830929.
937712	OD	1	CONT AIR LOCK EL. 100 FAILURE DESCRIPTION: OUTER DOOR HAS EXCESSIVE SEAL LEAKAGE. 831003. CORRECTIVE ACTION: ADJUSTED DOOR SEALS. 831003.
937728	OD	1	1MS132 VALVE OPERATE FAILURE DESCRIPTION: VALVE WILL NOT CLOSE DUE TO TORN DIAPHRAM ON VALVE OPERATOR. 831005. CORRECTIVE ACTION: REPLACED VALVE ON DIAPHRAM. 831005.

P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
939139	OD	1	14SW223 14 CFCU
			FAILURE DESCRIPTION: SERVICE WATER LEAK AT FLANGE. 830912.
			CORRECTIVE ACTION: REPLACED CAVITROL TUBE BUNDLES. OLD SPACER WAS ERODED CAUSING FALNGE LEAK. 830921.
939170	OD	1	12 BAT PUMP
			FAILURE DESCRIPTION: DISCHARGE FLOW REMAINS 2-3 GPM LOWER THAN MINIMUM REQUIRED WITH DIFF. PRESS AT MINIMUM LEVEL.
			CORRECTIVE ACTION: ADJUSTED IMPELLER CLEARENCE TO .012. 830916.
939175	OD	1	12 BAT PUMP
			FAILURE DESCRIPTION: PUMP KEEPS TRIPPING OUT ON OVERLOAD IN BOTH FAST AND SLOW SPEED. 830916.
			CORRECTIVE ACTION: REBUILT PUMP. REPLACED OIL AND MECHANICAL SEAL, O-RINGS AND BEARINGS. 830918.
939217	OD	1	DIESEL AIR START MTR
			FAILURE DESCRIPTION: REPLACE BROKEN COMPONENT OF DIESEL AIR START EAST LUBE INJECTOR. 830914.
			CORRECTIVE ACTION: REPLACED WITH NEW LUBRICATOR. 830926.
939236	OD	1	1CV75
			FAILURE DESCRIPTION: VALVE HAS .4 GPM PACKING LEAK.
			CORRECTIVE ACTION: FURMANITED USING T68 PROCEDURE. WO # 934641 WRITTEN FOR PERMENANT REPAIR DURING OUTAGE. 830920.
940425	OD	1	CONF AIR LOCK EL. 130
			FAILURE DESCRIPTION: EXTERIOR DOOR SEAL LEAKS. 831031.
			CORRECTIVE ACTION: REMOVED AND REINSTALLED DOOR SEALS. 831031.



P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
943406	OD	1	ROD CONTROL SYS.  FAILURE DESCRIPTION: WITH 1 DEG F DEVIATION, RODS SHOW A 72 SPM ROD SPEED OUT IN AUTO. 831116.  CORRECTIVE ACTION: NO 15 VOLT OUTPUT FROM 1TM-412Q POWER SUPPLY. REPLACED Q5 in 1TM-412Q. CAL SAT. 831116.
943467	OD	1	12 CC ROOM COOLER  FAILURE DESCRIPTION: SERVICE WATER LEAK IN COOLER. 831116.  CORRECTIVE ACTION: CLEANED U-TUBE. PATCHED WITH MOLEOULAR BELZONA. 831117.
940631	OD	1	12SW129 CONTROL  FAILURE DESCRIPTION: VALVE IS OPEN AT ALL TIMES AND SOLENOID VALVE VENT PORT IS CONSTANTLY BLOWING AIR. 831104.  CORRECTIVE ACTION: REPLACED SOLENOID VALVE. 831114.
940692	OD	1	12 SW STRAINER  FAILURE DESCRIPTION: SHEAR PIN BROKEN. 831110.  CORRECTIVE ACTION: PIECE OF METAL JAMMED BETWEEN BOTTOM SHOES AND PLATE. REPLACED BOTTOM SHOES AND SHEAR KEY. 831110.
940695	OD	1	CONT PRESS COMPUTER  FAILURE DESCRIPTION: COMPUTER POINT SPIKING TO .7 PSIG ON ALARM TYPEWRITE. 831110.  CORRECTIVE ACTION: REPLACED LEAKING CAPACITOR C4 IN 1PM-948B ISOLATOR. ALSO REPLACED OLD STYLE CAPACITORS C2, C3, C6, C7, C8, C9. 831114.
940702	OD	1	12SW24 OPERATOR  FAILURE DESCRIPTION: VALVE OPERATOR HAS AIR LEAK FROM UNDERSIDE OF DIAPHRAM. 831111.  CORRECTIVE ACTION: REPLACED ACTUATOR DIAPHRAM AND REBUILT ACTUATOR. 831116.

P S E & G SALEM GENERATING STATION  
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

---

WO NO	DEPT	UNIT	EQUIPMENT IDENTIFICATION
-------	------	------	--------------------------

---

942732	IC	1	12 RCP SEAL OUTLET
--------	----	---	--------------------

FAILURE DESCRIPTION: TEMPERATURE CHANNEL FOUND OUT OF CAL DURING CHANNEL CAL. 831116.

CORRECTIVE ACTION: REPLACED CAPACITORS C30 AND C31 IN LOW-LEVEL AMPLIFIER 1TM-146. 831117.

---

943449	OD	1	12SW77 CHECK VALVE
--------	----	---	--------------------

FAILURE DESCRIPTION: CHECK VALVE FAILED SPO 405V AND WAS FOUND OPEN BY X-RAY. 831119.

CORRECTIVE ACTION: REPLACES SPRING, PINS, LUG BEARINGS, NUTS AND STUDS. FILLED ERODED AREAS OF BODY WITH BELZONA CERAMIC R METAL. TEST SAT. 831127.

---

## SALEM UNIT 1

### OPERATIONS SUMMARY REPORT

DECEMBER 1983

Unit No. 1 began the month operating at full power, and with the exception of minor load reductions on December 1st, 17th, and 22nd, continued full power operation until December 25, 1983. On December 25th, buildup of ice in the circulating traveling screens forced a unit load reduction to approximately 50%. The icing conditions decreased with the rising tide, and Unit No. 1 was restored full power operation on December 26th. Full power operation of the unit continued until December 30th, when circulating water icing conditions again forced a reduction in load. Unit No. 1 was subsequently shutdown to perform repairs to No. 14 Steam Generator tube lane blocking device handhole cover which was leaking in the containment. Repairs were satisfactorily completed and the unit was returned to service on January 1, 1984.

## REFUELING INFORMATION

COMPLETED BY: L.K. MillerDOCKET NO.: 50-272UNIT NAME: Salem 1DATE: January 10, 1984TELEPHONE: 609/935-6000EXTENSION: 4455Month December 1983

1. Refueling information has changed from last month:  
YES X NO
2. Scheduled date for next refueling: May 31, 1984
3. Scheduled date for restart following refueling: September 4, 1984
4. A) Will Technical Specification changes or other license amendments be required?  
YES        NO         
NOT DETERMINED TO DATE 1/1/84
- B) Has the reload fuel design been reviewed by the Station Operating Review Committee?  
YES        NO X  
If no, when is it scheduled? April 1984
5. Scheduled date(s) for submitting proposed licensing action:  
April 1984 (if required)
6. Important licensing considerations associated with refueling:  
NONE
7. Number of Fuel Assemblies:  
A) Incore 193  
B) In Spent Fuel Storage 212
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 1996

8-1-7.R4



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

Salem Generating Station

January 10, 1984

Director, Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Sir:

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

In Compliance with Section 6.9, Reporting Requirements for the Salem Technical Specifications, 10 copies of the following monthly operating reports for the month of December 1983 are being sent to you.

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

Sincerely yours,

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

LKM:sbh

cc: Dr. Thomas E. Murley  
Regional Administrator USNRC  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

Director, Office of Management  
Information and Program Control  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Enclosures  
Page 1 of 23  
8-1-7.R4

  
IE 24  
1/1