

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-311  
 UNIT Salem No. 2  
 DATE November 10, 1982  
 COMPLETED BY L. K. Miller  
 TELEPHONE 609-935-6000 X 4455

MONTH October 1982

DAY AVERAGE DAILY POWER LEVEL  
 (MWe-NET)

1	919
2	865
3	848
4	866
5	889
6	859
7	842
8	879
9	870
10	875
11	310
12	83
13	850
14	880
15	879
16	846

DAY AVERAGE DAILY POWER LEVEL  
 (MWe-NET)

17	838
18	923
19	900
20	923
21	862
22	874
23	887
24	880
25	380
26	864
27	861
28	869
29	868
30	873
31	914

OPERATING DATA REPORT

DOCKET NO.: 50-311  
 DATE : November 10, 1982  
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OPERATING STATUS

1. Unit Name: Salem No. 2
2. Reporting Period: October 1982
3. Licensed Thermal Power (Mwt): 3411
4. Nameplate Rating (Gross MWe): 1162
5. Design Electrical Rating (Net MWe): 1115
6. Maximum Dependable Capacity (Gross MWe): 1149
7. Maximum Dependable Capacity (Net MWe): 1106

Notes:

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reason:  
None

9. Power Level To Which Restricted, If Any (Net MWe): None  
 10. Reasons For Restrictions, If Any: N/A

	This Month	Year to Date	Cumulative
11. Hours In Reporting Period	745	7296	9242
12. Number Of Hours Reactor Was Critical	720.5	7134.3	8993.6
13. Reactor Reserve Shutdown Hours	8.3	36.5	36.5
14. Hours Generator On-Line	712.3	7069.0	8886.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1989686	21619107	26727126
17. Gross Electrical Energy Generated (MWH)	649700	7096640	8805510
18. Net Electrical Energy Generated (MWH)	618577	6791136	8423203
19. Unit Service Factor	95.6	96.9	96.2
20. Unit Availability Factor	95.6	96.9	96.2
21. Unit Capacity Factor (Using MDC Net)	75.1	84.2	82.4
22. Unit Capacity Factor (Using DER Net)	74.5	83.5	81.7
23. Unit Forced Outage Rate	4.4	3.1	3.6

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
Refueling Outage, January 22, 1983, 18 Weeks

25. If Shut Down At End of Report Period, Estimated Date of Startup: N/A

26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	06/30/80	08/02/80
INITIAL ELECTRICITY	09/01/80	06/03/81
COMMERCIAL OPERATION	09/24/81	10/13/81

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October 1982

DOCKET NO.: 50-311

UNIT NAME: Salem No. 2

DATE: November 10, 1982

COMPLETED BY: L. K. Miller

TELEPHONE: 609-935-6000 X 4455

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
82-448	8-12	F	1934.7	A	4	- - -	HB	VALVEX	Nuclear Main Steam Safety/Relief Valves
82-648	10-01	F	3.1	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-650	10-01	F	5.4	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-652	10-01	F	4.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-654	10-02	F	11.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-656	10-02	F	2.0	A	5	- - -	HB	CKTBKR	Moisture Separator Reheater Drain Controls
82-658	10-02	F	55.6	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens

<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 I-Same Source

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October 1982DOCKET NO.: 50-311UNIT NAME: Salem No. 2DATE: November 10, 1982COMPLETED BY: L. K. MillerTELEPHONE: 609-935-6000 X 4455

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
82-660	10-02	F	3.7	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-662	10-03	F	44.5	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-664	10-03	F	51.8	A	5	- - -	HB	CKTBKR	Moisture Separator Reheater Drain Controls
82-666	10-05	F	4.9	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-688	10-05	F	4.3	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-670	10-05	F	11.0	A	5	- - -	HB	CKTBKR	Moisture Separator Reheater Drain Controls
82-672	10-06	F	5.7	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-674	10-06	F	10.4	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-676	10-06	F	45.8	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-678	10-07	F	11.9	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens

## UNIT SHUTDOWNS AND POWER REDUCTIONS

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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
82-680	10-07	F	3.1	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-682	10-07	F	.9	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-684	10-07	F	15.2	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-686	10-08	F	2.4	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-688	10-08	F	3.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-690	10-09	F	5.9	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-692	10-09	F	2.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-694	10-09	F	8.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-696	10-09	F	2.8	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-698	10-10	F	13.5	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-700	10-10	F	87.4	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-702	10-11	F	76.2	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October 1982

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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
82-704	10-11	F	32.7	A	3	- - -	RB	CONROD	Nuclear Control Rod Drive Motors
82-706	10-12	F	9.3	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-708	10-14	F	37.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-710	10-16	F	15.0	A	5	- - -	HC	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-712	10-16	F	3.2	A	5	- - -	HC	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-714	10-16	F	9.6	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-716	10-17	F	88.7	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-718	10-22	F	42.6	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-720	10-22	F	29.7	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-722	10-23	F	25.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-724	10-25	F	16.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October 1982

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82-728	10-25	F	14.3	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-730	10-25	F	92.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-732	10-26	F	7.4	A	5	- - -	HC	HTEXCH	Condenser Tube Leaks Inspection
82-734	10-27	F	1.0	A	5	- - -	HC	HTEXCH	Tube Sheets Condenser
82-736	10-28	F	29.3	A	5	- - -	HC	HTEXCH	Condenser Tube And Water Box Cleaning
82-737	10-29	F	5.9	A	5	- - -	HC	HTEXCH	Condenser Tube And Water Box Cleaning
82-738	10-29	F	5.0	A	5	- - -	HC	HTEXCH	Condenser Tube And Water Box Cleaning
82-739	10-30	F	9.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-740	10-30	F	6.0	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-741	10-30	F	30.2	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens

MAJOR PLANT MODIFICATIONS  
REPORT MONTH OCTOBER 1982

DOCKET NO: 50-311  
UNIT NAME: Salem 2  
DATE: November 10, 1982  
COMPLETED BY: L. K. Miller  
TELEPHONE: 609-935-6000 X 4455

*DCR NO.	PRINCIPLE SYSTEM	SUBJECT
2EC-0786	Auxiliary Building Ventilation	Remove emergency low flow alarm circuit
2EC-1100A	Control Room Side Panel	Update reactor core display (drawing 229956-A-1355, Rev. 1) to match Unit #1 (RP3)
2EC-1289	Steam Generator Feed	Add spring vibration dampeners to 8" recirc lines at El. 124'-3"
2SC-0225	Fuel Handling Building Ventilation	Install different style differential pressure switch across the Fuel Handling Building supply fan
2SC-0318	Turbine Auxiliary Cooling	Revise TD-3204 low temperature alarm



MAJOR PLANT MODIFICATIONS

REPORT MONTH October 1982

DOCKET NO.: 50-311

UNIT NAME: Salem No. 2

DATE: November 10, 1982

COMPLETED BY: L. K. Miller

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*DCR NO.	10CFR50.59 SAFETY EVALUATION
2EC-0786	This is not safety related.
2EC-1100A	This is a cosmetic change and will not affect the safe shutdown of the reactor.
2EC-1289	The addition of the spring vibration dampeners to the 8" recirc lines does not alter the original design concept of the system in anyway. Also, this addition does not alter the technical specification or the safety analysis report.
2SC-0225	This modification does not involve an unreviewed safety question. The switch being replaced was not used in the calculations for any presently performed safety analysis.
2SC-0318	This design change is not safety related.

SORTED BY  
DEPARTMENT, WORK ORDER NO.

SALEM GENERATING STATION  
SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 11/08/82  
PAGE 0001

WORK ORDER NUMBER	DEPT	EQUIPMENT IDENTIFICATION	EXPLANATION OF WORK PERFORMED
901115	M	CONT AIR LOCK FL 100	
		DESCRIPTION OF PROBLEM,	INNER DOOR ROLLER ON DOOR LATCH CRACKED. 820818
		CORRECTIVE ACTION,	REPLACED ROLLER AND ALIGNED DOOR. 820819
901911	M	PUMP, 22 CHILLER RECTRC	
		DESCRIPTION OF PROBLEM,	SEAL LEAKING OIL. 820906
		CORRECTIVE ACTION,	REPLACED MECHANICAL AND OIL SEALS. 820913
905650	M	PUMP, 21 CHILLER RECTRC	
		DESCRIPTION OF PROBLEM,	INBOARD BEARING RUNNING HOT. 820927
		CORRECTIVE ACTION,	CHANGED OUT BEARING AND OIL SEALS. 820907
905659	M	VALVE, 214546	
		DESCRIPTION OF PROBLEM,	VALVE INOPERABLE. 820831 IR 82-241
		CORRECTIVE ACTION,	REPLACED CLAPPER ARM, DISC AND HANGER. 820901
905704	M	CONT FAN COIL UNIT, 25	
		DESCRIPTION OF PROBLEM,	REPAIR BEARINGS. 820804
		CORRECTIVE ACTION,	INSTALLED TWO NEW BEARINGS AND ALIGNED SHAFT. 820908
906523	M	CONT FAN COIL UNIT	
		DESCRIPTION OF PROBLEM,	SERVICE WATER LEAK. 820923 IR 82-285
		CORRECTIVE ACTION,	REPAIRED LEAKS IN M11V. 821007

SORTED BY  
DEPARTMENT, WORK ORDER NO.

SALEM GENERATING STATION  
SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 11/08/82  
PAGE 0002

WORK ORDER NUMBER	DEPT	EQUIPMENT IDENTIFICATION	EXPLANATION OF WORK PERFORMED
906904	M	PUMP, 21 BAT	
		DESCRIPTION OF PROBLEM,	MECHANICAL SEAL LEAKING. SEAL APPEARS TO BE FLOATING ALONG SHAFT. 820819
		CORRECTIVE ACTION,	REPLACED MECHANICAL SEAL, RE-ALIGNED COUPLING. 820826
906912	M	CONT FAN COIL UNIT, 24	
		DESCRIPTION OF PROBLEM,	REPAIR PRIMARY COIL LEAK. 820822 IR 82-228
		CORRECTIVE ACTION,	INSTALLED RELZONA ON TWO PRIMARY COIL LEAK AND BLANKED OFF ONE COOLER. 820826
907255	M	PUMP, 2A DIESEL PRELUBE	
		DESCRIPTION OF PROBLEM,	OIL LEAK ON PUMP DISCHARGE FLANGE. 820912
		CORRECTIVE ACTION,	REPAIRED OIL LEAK. 821007 TR 82-340
907490	M	PUMP, 24 SERVICE WATER	
		DESCRIPTION OF PROBLEM,	MOTOR OIL SIGHT GLASS FULL OF OIL. CHECK FOR COOLER LEAK. 820910 TR 82-271
		CORRECTIVE ACTION,	REPAIRED COOLING COIL WITH RELZONA. 820911
908711	M	CONT FAN COIL UNIT, 21	
		DESCRIPTION OF PROBLEM,	SERVICE WATER SECONDARY COIL LEAK, OLD RELZONA PATCH. 820911
		CORRECTIVE ACTION,	REPAIRED USING RELZONA. 820911
908743	M	PUMP, 22 CHILLER RECIRC	

SOPTED BY  
DEPARTMENT, WORK ORDER NO.

SALEM GENERATING STATION  
SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 11/08/82  
PAGE 0003

WORK ORDER NUMBER	DEPT	EQUIPMENT IDENTIFICATION	EXPLANATION OF WORK PERFORMED
		DESCRIPTION OF PROBLEM,	MECHANICAL SEAL LEAKS, R20914
		CORRECTIVE ACTION,	RESET MECHANICAL SEAL, ADJUSTED IMPELLER AND REALIGNED, R20916
908765	M	CONT FAN COIL UNIT, 22	
		DESCRIPTION OF PROBLEM,	SERVICE WATER LEAK IN SECONDARY BANK COOLER, R20915
		CORRECTIVE ACTION,	REZONAED LEAKING TUBE, R20916
909110	M	BKR, B BY TRIP	
		DESCRIPTION OF PROBLEM,	BKR WOULD NOT OPEN FROM SSPS, COULD OPEN FROM CONTROL CONSOLE, R20820 IR R2-206
		CORRECTIVE ACTION,	REMOVED UNDERVOLTAGE TRIP COIL LATCH MECHANIZM, CLEANED MECHANIZM AND REPLACED COIL, OPERATES SAT, R20831
906563	P	PUMP, 22 S/G FEED	
		DESCRIPTION OF PROBLEM,	INVESTIGATE WHY 22 S/GFP BIAS DECREASES AND STARTS TO UNLOAD PUMP WITHOUT ANY OPERATOR ACTION, R20926
		CORRECTIVE ACTION,	REPLACED K1&K2 RELAYS, SERVO AMP AND 22 IN SERVO SET POINT STATION 2HC500H, REPLACED MANUAL-AUTO STA 2HC500F S/N 20151 WITH S/N 107, R21013

SORTED BY  
DEPARTMENT, WORK ORDER NO.

SALEM GENERATING STATION  
SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 11/08/82  
PAGE 0058

WORK ORDER NUMBER	DEPT	EQUIPMENT IDENTIFICATION	EXPLANATION OF WORK PERFORMED
906958	P	RMS CH 2R41A	
		DESCRIPTION OF PROBLEM,	2R41A READING 200K(ALARM),P16 READING 70. R20825
		CORRECTIVE ACTION,	REPLACED DISCRIMINATOR POT,TIGHTENED DC TO DC CONVERTER AND FIXED PUSH PIN ON PUMP MODULE. CHECK SAT. R20527
907407	P	CONT FAN COIL UNIT 23	
		DESCRIPTION OF PROBLEM,	FLOW DOES NOT CHANGE WITH CHANGING SPEED. R20907
		CORRECTIVE ACTION,	FOUND ACTUATOR STEM OF 23SW65 BROKEN OFF IN GEARBOX. REPLACED CONNECTOR LINK FOR ACTUATOR. R20907
907419	P	VALVE,23SW24	
		DESCRIPTION OF PROBLEM,	VALVE APPEARS TO HAVE BLOWN DIAPHRAM. R20908
		CORRECTIVE ACTION,	REPLACED DIAPHRAM AND TWO BONNET NUTS. R20913
907420	P	VALVE,21SW24	
		DESCRIPTION OF PROBLEM,	VALVE APPEARS TO HAVE BLOWN DIAPHRAM. R20908
		CORRECTIVE ACTION,	RENEWED DIAPHRAM AND SPRING COVER GASKET. R20909

SORTED BY  
DEPARTMENT, WORK ORDER NO.

SALEM GENERATING STATION  
SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 11/08/82  
PAGE 0005

WORK ORDER NUMBER	DEPT	EQUIPMENT IDENTIFICATION	EXPLANATION OF WORK PERFORMED
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907422	P	HKR,21ASD	
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DESCRIPTION OF PROBLEM,

CANNOT CLEAR OPEN PUSHBUTTON, 820909

CORRECTIVE ACTION,

REPLACED BAD RELAY, 820909

TOTAL LINES = 000088  
TOTAL A-PECS = 000020

LAST UPDATE  
821106  
135909  
ENTER COMMANDS  
END OF RUN

ABRKPT PRINTS

Salem Unit 2  
OPERATIONS SUMMARY REPORT  
October 1982

The reactor was maintained at 82% power during the month. Small load reductions were caused by high condenser back pressure due to circulator screen maintenance, testing for condenser tube leaks and a 10 minute power failure to a condenser valve. A reactor trip occurred on October 11, 1983. Underfrequency relay operations on two of the four 4KV Group Busses was caused by a power supply failure in the diesel generator annunciator circuitry. The reactor was returned to service the next day.

REFUELING INFORMATION

DOCKET NO.: 50-311

UNIT: Salem No. 2

DATE: November 10, 1982

COMPLETED BY: L. K. Miller

TELEPHONE: 609-935-6000X4455

MONTH: October 1982

1. Refueling information has changed from last month:

YES  NO

2. Scheduled date of next refueling: January 22, 1983

3. Scheduled date for restart following refueling: May 29, 1983

4. A. Will Technical Specification changes or other license amendments be required? YES  NO

NOT DETERMINED TO-DATE \_\_\_\_\_

B. Has the reload fuel design been reviewed by the Station Operating Review Committee? YES \_\_\_\_\_ NO

If no, when is it scheduled? January 1983

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

January 1983 (If Required)

6. Important licensing considerations associated with refueling:

None

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Number of Fuel Assemblies:

A. In-Core 193

B. In Spent Fuel Storage 0

8. Present licensed spent fuel storage capacity: 1170

Future spent fuel storage capacity: 1170

9. Date of last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity: March 2000