

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-311

UNIT Salem No. 2

DATE September 10, 1982

COMPLETED BY L. K. Miller

TELEPHONE 609-541-5900 X 4455

MONTH August 1982

## DAY AVERAGE DAILY POWER LEVEL

(MWe-NET)

1	856
2	849
3	896
4	352
5	833
6	855
7	927
8	793
9	838
10	793
11	811
12	878
13	871
14	842
15	856
16	842

## DAY AVERAGE DAILY POWER LEVEL

(MWe-NET)

17	890
18	846
19	871
20	853
21	842
22	854
23	844
24	850
25	765
26	853
27	864
28	848
29	872
30	687
31	830

# OPERATING DATA REPORT

DOCKET NO.: 50-311

DATE : September 10, 1982

COMPLETED BY: L. K. Miller

TELEPHONE: 609-541-5900 X 4455

## OPERATING STATUS

1. Unit Name: Salem No. 2
2. Reporting Period: August 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
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reason:  
None

Notes:

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	744	5831	7777
12. Number Of Hours Reactor Was Critical	744	5776.2	7635.5
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744	5748.1	7565.8
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2066801	17988423	23096442
17. Gross Electrical Energy Generated (MWH)	659560	5928390	7637260
18. Net Electrical Energy Generated (MWH)	627881	5682808	7314875
19. Unit Service Factor	100	98.6	97.3
20. Unit Availability Factor	100	98.6	97.3
21. Unit Capacity Factor (Using MDC Net)	76.3	88.1	85.0
22. Unit Capacity Factor (Using DER Net)	75.7	87.4	84.4
23. Unit Forced Outage Rate	0	1.4	2.4
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling Outage, January 22, 1983, 8 Weeks</u>			

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

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

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

Forecast

06/30/80

09/01/80

09/24/81

Achieved

08/02/80

06/03/81

10/13/81

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1982DOCKET NO.: 50-311UNIT NAME: Salem No. 2DATE: September 10, 1982COMPLETED BY: L. K. MillerTELEPHONE: 609-541-5900 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
82-390	7-30	F	298.9	A	5	- - -	HB	VALVEX	Nuclear Main Steam Safety/Relief Valves - 23MS15 LCO
82-398	8-01	F	4.2	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-400	8-01	F	5.0	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-402	8-01	F	29.9	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-404	8-01	F	4.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-406	8-02	F	5.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-408	8-02	F	5.7	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

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82-410	8-03	F	4.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-412	8-03	F	37.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-414	8-03	F	9.2	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-416	8-04	F	28.0	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-418	8-04	F	4.3	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-420	8-05	F	13.4	A	5	- - -	HF	MOTORX	Circulating Water Pump Motor
82-422	8-05	F	8.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-424	8-06	F	3.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-426	8-07	F	1.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-428	8-08	F	4.6	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-430	8-09	F	7.4	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens

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82-432	8-09	F	47.2	A	5	- - -	HA	TURBIN	Steam Turbine/Governor End Differential Expansion
82-434	8-09	F	30.5	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-436	8-10	F	7.6	A	5	- - -	HF	FILTER	Circulating Water Pumps - Screen Inspection
82-438	8-10	F	14.1	A	5	- - -	HF	FILTER	Circulating Water Pumps - Screen Inspection
82-440	8-11	F	19.4	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-442	8-11	F	5.3	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-444	8-12	F	4.1	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-446	8-12	F	12.0	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-448	8-12	F	470.7	A	5	- - -	HB	VALVEX	Nuclear Main Steam Safety/Relief Valves - 23MS15 LCO
82-450	8-13	F	3.3	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens

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82-452	8-13	F	5.9	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-454	8-14	F	4.6	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-456	8-14	F	6.6	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-458	8-14	F	23.9	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-460	8-15	F	6.9	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-462	8-15	F	2.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-464	8-16	F	8.8	A	5	- - -	HF	FILTER	Circulator Screen Inspection
82-466	8-16	F	15.7	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-468	8-16	F	14.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-470	8-17	F	4.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-472	8-17	F	3.1	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens



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82-474	8-18	F	33.0	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-476	8-19	F	24.6	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-478	8-20	F	5.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-480	8-20	F	2.1	A	5	- - -	IA	CKTBRK	Reactor Trip Breaker "B"
82-482	8-20	F	75.7	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-484	8-20	F	4.7	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-486	8-21	F	5.1	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-488	8-21	F	7.2	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-490	8-23	F	4.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-492	8-23	F	12.3	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-494	8-23	F	21.4	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection

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82-496	8-24	F	5.3	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-498	8-24	F	19.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-500	8-25	F	2.2	A	5	- - -	CH	PUMPXX	#21 S.G.F.P-Steam Leak
82-502	8-25	F	12.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-504	8-25	F	4.5	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-506	8-26	F	19.4	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-508	8-26	F	11.9	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-510	8-27	F	14.5	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-512	8-28	F	68.8	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-514	8-28	F	12.0	A	5	- - -	HF	FILTER	Traveling Screens/Trash Racks/ Canal Screens
82-516	8-29	F	37.2	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-518	8-30	F	23.0	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection
82-520	8-30	F	11.4	A	5	- - -	HF	HTEXCH	High Circulating Water Temperature



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REPORT MONTH August 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
82-522	8-30	F	11.3	A	5	- - -	HC	HTEXCH	Condenser Tube Leak Inspection

SORTED BY  
DEPARTMENT, WORK ORDER NO.

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

DATE 09/08/82  
PAGE 0001

WORK  
ORDER  
NUMBER

DEPT

EQUIPMENT IDENTIFICATION

EXPLANATION OF WORK PERFORMED

900281 M DIST CAB, 200C INFEED BKR

DESCRIPTION OF PROBLEM,

EMERG INFEED BKR HAS A MECHANICAL PROBLEM  
WHICH INHIBITS PROPER CLOSURE. EXCESSIVE  
FORCE MUST BE USED TO LATCH CLOSED. 820410

CORRECTIVE ACTION,

REPLACED BREAKER. 820813

901002 M PUMP, 22 CHILLER RECIRC

DESCRIPTION OF PROBLEM,

PUMP LEAKING OIL AROUND SHAFT. 820730

CORRECTIVE ACTION,

REPLACED MECH SEAL AND FLANGE RING. 820803

901103 M CONT FAN COIL UNIT, 24

DESCRIPTION OF PROBLEM,

LEAK IN COOLING TUBE. 820809

CORRECTIVE ACTION,

BLANKED OFF COIL 3RD FROM BOTTOM PRIMARY.  
820811

901176 M CONT FAN COIL UNIT 23

DESCRIPTION OF PROBLEM,

LEAK ON UPPER COOLER. 820813

CORRECTIVE ACTION,

REPAIRED LEAK WITH COPPER BELZONA. 820813

901179 M CONT AIR LOCK EL 100

DESCRIPTION OF PROBLEM,

INNER DOOR ROLLER HAS SELF DESTRUCTED.  
PINS FROM ROLLER ON FLOOR. 820812

CORRECTIVE ACTION,

REPLACED ROLLER. 820812

901195 M STRAINER, 26 SW PUMP

DESCRIPTION OF PROBLEM,

STRAINER HAS HIGH DELTA P THAT BACKWASH  
CAN'T CLEAN. 820809

SALEM GENERATING STATION  
SORTED BY DEPARTMENT, WORK ORDER NO. SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 09/08/82  
PAGE 0002

WORK ORDER NUMBER	DEPT	EQUIPMENT IDENTIFICATION	EXPLANATION OF WORK PERFORMED
		CORRECTIVE ACTION,	CLEANED AND REPLACED STRAINERS, REPLACED DISTRIBUTOR BARRELS, 820810
901832	M	PUMP, 23 COMP COOLING	
		DESCRIPTION OF PROBLEM,	OUTBOARD BRG HOUSING MOVING WITH SHAFT, 820823
		CORRECTIVE ACTION,	REPLACED OUTBOARD BEARING AND BEARING HOUSING, 820823
902898	M	8KV BKR, 22 SW PUMP	
		DESCRIPTION OF PROBLEM,	BREAKER WILL NOT RECHARGE, 820725
		CORRECTIVE ACTION,	FOUND BROKEN COTTER PIN ON LATCHING PAWL HOLDING PIN. SPRING CHARGING MOTOR BURNED UP. REPAIRED MECHANISM AND REPLACED MOTOR, 820728
902976	M	COMPRESSOR, 22 WASTE GAS	
		DESCRIPTION OF PROBLEM,	MOTOR SIEZED, 820724
		CORRECTIVE ACTION,	BEARING REPLACED IN PUMP AND INSTALLED NEW MOTOR, 820805
906919	M	CONT AIR LOCK EL 100	
		DESCRIPTION OF PROBLEM,	OUTER DOOR SEAL LEAKING, 820823
		CORRECTIVE ACTION,	REPLACED TORN SEAL, 820823
906928	M	CONT AIR LOCK EL 130	

SORTED BY  
DEPARTMENT, WORK ORDER NO. SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 09/08/82  
PAGE 0003

WORK  
ORDER

NUMBER DEPT EQUIPMENT IDENTIFICATION EXPLANATION OF WORK PERFORMED

DESCRIPTION OF PROBLEM,

EXCESSIVE AIR LEAKAGE. 820823

CORRECTIVE ACTION,

ADJUSTED SEALS. 820823

990960 M VALVES, 2VC1, 2VC4, 2VC5 & 2VC6

DESCRIPTION OF PROBLEM,

PERFORM PRESSURE DROP TEST FOR T/S  
4.6.3.6. 820616

CORRECTIVE ACTION,

TEST PERFORMED ACCEPTABLE. 820628

901160 P VALVE, 258W58

DESCRIPTION OF PROBLEM,

ACTUATOR BROKEN AWAY FROM VALVE BODY.  
820814

CORRECTIVE ACTION,

REPLACED ACTUATOR SUPPORT HOUSING AND SET  
LIMIT SWITCHES. 820816

901215 P RMS, 2R41A

DESCRIPTION OF PROBLEM,

CONTROL ROOM INDICATION FAILED. 820806

CORRECTIVE ACTION,

REPLACED POWER SUPPLY, ANTI-JAM PCB, 8661  
MODULE WITH BETTER SCINT. FUNCTIONAL SAT.  
820813

902823 P LEVEL, 23 S/G

DESCRIPTION OF PROBLEM,

LT-1642 INDICATES ZERO WHILE ACTUAL LEVEL  
IS 42 INCHES. 820727

CORRECTIVE ACTION,

FOUND BAD POWER SUPPLY AND ISOLATOR BOARD  
PROBLEM. REPAIRED BOARD. CHANGED FOUR  
MULTIVIBRATORS. 820728

SORTED BY  
DEPARTMENT, WORK ORDER NO. SALEM GENERATING STATION  
SAFETY RELATED EQUIPMENT WORK ORDER LOG - UNIT 2

DATE 09/08/82  
PAGE 0004

WORK  
ORDER  
NUMBER

DEPT

EQUIPMENT IDENTIFICATION

EXPLANATION OF WORK PERFORMED

902971 P RMS 2R41A

DESCRIPTION OF PROBLEM,

CHANNEL APPEARS TO HAVE FAILED. 820722

CORRECTIVE ACTION,

REPLACED ANTI-JAM BOARD, COMPLETED CAL  
AND FUNCTIONAL CHECKS. 820727

904279 P RMS 2R41A

DESCRIPTION OF PROBLEM,

CONTROLLER SHOWS ERRATIC DISPLAYS. 820720

CORRECTIVE ACTION,

REPLACED DATE LINE DRIVER CHIP. 820727

904289 P INSTRU,21 S/G STM FLO CH2

DESCRIPTION OF PROBLEM,

CHANNEL OUT OF CAL. 820720

CORRECTIVE ACTION,

REPLACED FIVE CAPACITORS IN 2FM-513E,  
REPLACED TWO CAPACITORS IN 2FC-513,  
READJUSTED SETPOINTS AND COMPLETED  
FUNCTIONAL. 820720

909082 P INSTRU,23 RCP FLOW CH3

DESCRIPTION OF PROBLEM,

CHANNEL SWINGING LOW CAUSING BISTABLE TO  
TRIP. 820722

CORRECTIVE ACTION,

CHECKED LOOP FOR AC NOISE. NOISE MINIMAL.  
REPLACED TRANSMITTER. 820727

988604 P INSTRU,24 RCP FLOW CH2

DESCRIPTION OF PROBLEM,

CHANNEL READING HIGH, ABOUT 104%, 820726

CORRECTIVE ACTION,

REPLACED TRANSMITTER. 820728

TOTAL LINES = 000086  
TOTAL A=RECS = 000020

LAST UPDATE  
820908  
072942  
ENTER COMMANDS  
END OF RUN

Page 14 of 16  
28RKPT PRINTS

Salem Unit #2  
Operating Summary  
August, 1982

Unit 2 continues to be limited to 82% due to gagged safety valve.

Reactor power was reduced on August 9, to 78% to reduce the turbine differential expansion, (reduced efficiency in a moisture separator reheater (MSR) affects the reheat system temperature and causes a shift in the axial position of the low pressure turbine rotor). Reactor power was maintained at 78% for the next three days.

On August 20, routine surveillance on the reactor trip breakers found one not meeting the acceptance criteria. Reactor power was reduced (to comply with the Technical Specification action statement) to 75% before the problem was resolved. Power was then increased at 3% per hour back to 82%.

On August 24, reactor power reduced to 58% to take #21 steam generator feedpump out of service in order to repair a steam leak. The leak was repaired and power was increased at 3% per hour back to 82% on August 25, 1982.

On August 30, a load reduction commenced due to a leak in #22A condensor. Number 22B and 23B condensors were out of service at the same time. Load reduction continued to approximately 68% when the condensor differential temperature approached the Environmental Technical Specification limit.



# REFUELING INFORMATION

DOCKET NO.: 50-311

UNIT: Salem No. 2

DATE: September 10, 1982

COMPLETED BY: L. K. Miller

TELEPHONE: 609-541-5900X4455

MONTH: August 1982

1. Refueling information has changed from last month:

YES X NO       

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

3. Scheduled date for restart following refueling: April 24, 1983

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

NOT DETERMINED TO-DATE August 1982

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

If no, when is it scheduled? December 1982

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

December 1982 (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