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REGULATORY DOCKET FILE COPY

Public Service Electric and Gas Company P.O. Box 168 Hancocks Bridge, New Jersey 08038

Salem Nuclear Generating Station

May 10, 1978

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

US NRC
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SERVICES UNIT

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 April, 1978 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,

H. J. Midura

H. J. Midura
Manager - Salem Generating Station

LKM:jcm

cc: Mr. Boyce H. Grier
Director of U. S. NRC
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pa. 19406

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

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-272

UNIT Salem No. 1

DATE May 10, 1978

COMPLETED BY L. K. Miller

TELEPHONE 609-365-7000 X507

MONTH April, 1978

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>

DAY AVERAGE DAILY POWER LEVEL (MWE-NET)

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

50-272

DOCKET NO.:

DATE : May 10, 1978

COMPLETED BY: L. K. Miller

TELEPHONE: 609-365-7000 X507

OPERATING STATUS

1. Unit Name: Salem No. 1
2. Reporting Period: April, 1978
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 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: _____

	This Month	Year to Date	Cumulative
11. Hours In Reporting Period	719	2879	7320
12. Number Of Hours Reactor Was Critical	0	1522.7	4065.9
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	0	1460.1	3890.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	4,505,479	11,200,699
17. Gross Electrical Energy Generated (MWH)	0	1,548,500	3,734,810
18. Net Electrical Energy Generated (MWH)	(4374)*	1,471,031*	3,529,249*
19. Unit Service Factor	0	50.7	53.2
20. Unit Availability Factor	0	50.7	53.2
21. Unit Capacity Factor (Using MDC Net)	0	47.4	44.7
22. Unit Capacity Factor (Using DER Net)	0	46.9	44.2
23. Unit Forced Outage Rate	100	49.3	31.3
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>None</u>			

25. If Shut Down At End of Report Period, Estimated Date of Startup: June 17, 1978

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

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

Forecast

9/30/76

11/1/76

12/20/76

Achieved

12/11/76

12/25/76

6/30/77

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*Values reflect modified method of calculating unit net generation.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April, 1978DOCKET NO.: 50-272UNIT NAME: Salem No. 1DATE: May 10, 1978COMPLETED BY: L. K. MillerTELEPHONE: (609) 365-7000 X507

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
78-40	3-15-78	F	719	B	1	- - -	N/A	Turbine	High vibration, Main Turbine Bearing No. 3., Unit Shut Down to make necessary turbine repairs.

¹
F: Forced
S: Scheduled

²
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)

³
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

⁵
Exhibit I-Same
Source

MAJOR PLANT MODIFICATIONS

REPORT MONTH April, 1978DOCKET NO.: 50-272UNIT NAME: Salem #1DATE: May 10, 1978COMPLETED BY: L. K. MillerTELEPHONE: 609-365-7000 X507

*DCR NO.	PRINCIPLE SYSTEM	SUBJECT
ED-0062	Steam Generator Feed	Modify Recirculation Valve (11 & 12 BF32) Controls from Modulating to Open-Close.
ED-0082	Refueling Equipment	Install Sheave Guards on RCC Change Fixture.
ED-0145	Reactor Coolant	Install .100" Shims on 14 RCP No. 3 Seal.
ED-0146	Reactor Coolant	Modify No. 3 Seal Ring on 11RCP
ED-0192	Waste Liquid	Replace Limit Switches on 11 & 12 LW9 with improved type
ED-0204	EH	Install new Panel 745 for Turbine Instruments.
ED-0226	Main Steam	Modify MSCDT Piping Hangers to reduce vibration.
ED-0302	Auxiliary Feed	Replace AFP Recirc Orifices with Redesigned Type.
ED-0352	Reactor Cavity	Remove Seal Plate and Hold Down Clamps.
OD-0024	Waste Gas	Replace 11 & 12 NT98 and Piping to increase flow.

MAJOR PLANT MODIFICATIONS
REPORT MONTH April, 1978

DOCKET NO.: 50-272

UNIT NAME: Salem #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

TELEPHONE: 609-365-7000 X507

*DCR NO.	10CFR50.59	SAFETY EVALUATION
OD-0024		Safety related equipment will not be affected.
ED-0062		Safety related equipment will not be affected.
ED-0082		This design change does not effect any presently performed safety analyses nor does it create any new hazards. Therefore, the criteria of an unreviewed safety question is not satisfied.
ED-0145		No change to seal design or safety analyses is proposed. Criteria for an unreviewed safety question are not met.
ED-0146		There is no fundamental change to seal design or function. Criteria for an unreviewed safety question are not met.
ED-0192		Safety related equipment will not be affected.
ED-0204		This change does not effect the safety function of structure. An unreviewed safety question is not involved.
ED-0226		Safety related equipment will not be affected.
ED-0302		This design change does not alter the function of the recirc. orifices. The criteria of an unreviewed safety question is not satisfied.
ED-0352		An unreviewed safety question is not involved in removing the existing seal ring.

SUMMARY OF SAFETY RELATED MAINTENANCE

DEPARTMENT PERFORMANCEREPORT MONTH April, 1978DOCKET NO.: 50-272UNIT NAME: Salem Unit #1DATE: May 10, 1978COMPLETED BY: L. K. MillerTELEPHONE: 609-365-7000 X507

WORK ORDER NO.	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
OD-8555	Valve 11MS10	Does not operate in Auto.	Repaired loose socket on relay K2 and replaced relay K4.
OD-8599	Valve 15SW58	No open indication.	Adjusted limit switch.
OD-8607	RMS 1R10B	Detector failure.	Replaced detector.
OD-8608	RMS 1R13C&E	Check setpoints.	Adjusted setpoints.
PD-4634	Fuel Handling Bldg. Sup Fan.	Incomplete sequence upon starting.	Freed damper.
OD-8290	Cont. Press channels.	P1003A reads high.	Recalibrated.
OD-8155	#11 Stm. Gen. Level CH III.	Does not agree with redundant channels.	Recalibrated.
PD-4680	Module 1BS518C	Module out of spec.	Replaced power supply to LIC-51.
PD-4688	RMS 1R9	Check calibration.	Replaced meter.
OD-8696	Valve 1MS132	Position indication linkage misaligned.	Aligned linkage and stem.

SUMMARY OF SAFETY RELATED MAINTENANCE

DEPARTMENT MAINTENANCEREPORT MONTH April, 1978DOCKET NO.: 50-272UNIT NAME: Salem Unit #1DATE: May 10, 1978COMPLETED BY: L. K. MillerTELEPHONE: 609-365-7000 X507

WORK ORDER NO.	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
OD-8251	Boric Acid Evaporator.	Disc ruptured.	Replaced rupture disc.
OD-8697	Valve 1CV141	Repair body/bonnet leak.	Replaced gasket.
OD-8634	#2 Fire Pump	Oil leak.	Put teflon tape on upper and lower plugs.
OD-8319	Valves 11RH17 and 12RH17.	Packing leak.	Repacked valves.
MD-2445A	Valve 11SJ23.	Packing leak.	Repacked valve and repaired flange.
OD-8652	1 Emerg. Air Compressor Breaker.	Stuck breaker.	Tack welded defective gear to shaft which allows breaker to be racked in and out.
OD-8653	4 KV feed to 1C 460-230V.	Linkage problem.	Straightened linkage.
MD-2644	15 Service Water Strainer.	Strainer leak.	Welded strainers.
MD-2425	Valve 11SJ54	Bent operator.	Repaired threads on yoke bushing.
OD-6858	16 Service Water Pump.	High Bearing Temp.	Replaced upper bearings and brazed pin hole leaks in cooler.

SUMMARY OF SAFETY RELATED MAINTENANCE

DEPARTMENT MAINTENANCEREPORT MONTH April, 1978DOCKET NO.: 50-272UNIT NAME: Salem Unit #1DATE: May 10, 1978COMPLETED BY: L. K. MillerTELEPHONE: 609-365-7000 X507

WORK ORDER NO.	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
OD-8530	12 Chiller.	Noisy and trips on low oil pressure.	Replaced compressor.
OD-8488	Valve 1CV57	Defective handwheel.	Replaced handwheel.
OD-8669	12 Service Water Strainer.	Shear key broken.	Replaced shear key, 4 shoes, and thrust bearing.
OD-8670	13 Service Water Strainer.	Alarms on High Diff. Press.	Calibrated PD287.
OD-8654	Valve 12CV155	Diaphragm leaks.	Replaced diaphragm.
OD-8588	#1 Emerg. Air Compressor.	Oil leak on head.	Replaced gaskets.
OD-8321	Valves 11 & 12 SJ 37 and 38.	Valve flange leaks.	Installed new gaskets.
OD-8639	Valve 1CV166	Blockage.	Removed bonnet and flushed.
OD-7570	Valves 12CV 318 and 319.	Packing leak.	Repacked valves and replaced cap.
MD-2563	Valve 1PS9	Packing leak.	Repacked valve.
MD-2534	15 Service Water Strainer.	Strainer running continuously.	Disassembled and cleaned strainer.
OD-5844	Valve 1SJ908	Drain valve and line plugged.	Cleared valve and line.

SUMMARY OF SAFETY RELATED MAINTENANCE

DEPARTMENT MAINTENANCE
REPORT MONTH April, 1978

DOCKET NO.: 50-272UNIT NAME: Salem Unit #1DATE: May 10, 1978COMPLETED BY: L. K. MillerTELEPHONE: 609-365-7000 X507

WORK ORDER NO.	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
OD-8673	Valve 11CV156	Bonnet leak.	Replaced diaphragm.
OD-6854	Loop II RTD Loop return orifice.	Flange leak.	Replaced flange gasket.
OD-8640	Valve 1CV175	Pipe blockage.	Cleared line, repacked check valve.
OD-4713	Valve 14WG33	Flange leak.	Replaced flange gasket.
OD-8687	11 Service Water Strainer.	Strainer fails to work on auto with 30 PSI Δ P.	Replaced motor leads.
OD-8635	11 Service Water Strainer.	Strainer fails to run with 20 PSI Δ P.	Installed new packing and gasket.
OD-8048	Valve 1CV89	Valve does not close properly.	Removed handwheel and re-adjusted valve.
MD-2445	Valve 11SJ23	Packing and flange leak.	Repack and replaced flange gasket.
OD-8701	11, 12 and 13 Service Water Strainer.	Alarms with only 3 Δ PSI.	Reseated alarm card.
MD-2385	Valve 13MS168	Bonnet leak.	Installed new gasket and packing.

SUMMARY OF SAFETY RELATED MAINTENANCE

DEPARTMENT MAINTENANCE

REPORT MONTH April, 1978

DOCKET NO.: 50-272

UNIT NAME: Salem Unit #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

TELEPHONE: 609-365-7000 X507

[illegible]

MONTHLY OPERATING SUMMARY

SALEM I

APRIL, 1978

4/1-30 The unit was out the entire month due to the continuation of outage for the purpose of making turbine repairs. Estimated date of startup is June 17, 1978.

REFUELING INFORMATION

DOCKET NO.: 50-272
 UNIT: SALEM NO. 1
 DATE: May 10, 1978
 COMPLETED BY: L. K. Miller
 TELEPHONE: 609-365-7000
 EXT. 507

MONTH: April, 1978

1. Refueling information has changed from last month:

YES X NO

2. Scheduled date of next refueling: April 1, 1979

3. Scheduled date for restart following refueling: May 29, 1979

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

NOT DETERMINED TO-DATE April, 1978

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

If no, when is it scheduled? JANUARY, 1979

5. Scheduled date(s) for submitting proposed licensing action:
February, 1979 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: 264

Future spent fuel storage capacity: 1,170

9. Date of last refueling that can be discharged to the spent fuel
 pool assuming the present licensed capacity: April, 1982