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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

DISTRIBUTION SERVICES

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,

1. J. Mishua.

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 """ Nuclear Regulatory Commission Washington, D.C. 20555

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A003

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

MON	TH April, 1978	
DAY	AVERAGE DAILY POWER LEVEL (MWe-NET)	DAY AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0	0
2	0	
3	0	0
4 .	0	20 0
5	00	0
6	. 0	0
7	0	0
8	0	0
9 .	0	250
10	0	260
11	0	270
12	0	28 0
13	0	290
14	0	300
15	0	31
16	. 0	

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DOCKET NO.:

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

TELEPHONE: 609-365-7000 X507

OPERATING STATUS

1.	Unit Name: Salem No. 1	Notes:		
2.	Reporting Period: April, 1978	inoces:		
2. 3.	Licensed Thermal Power (MWt): 3338			
٥. 4.	Nameplate Rating (Gross MWe): 1135			
5.	Design Electrical Rating (Net MWe): 1090			
6.	Maximum Dependable Capacity (Gross MWe): 112	24		
7.	Maximum Dependable Capacity (Net MWe): 10	 [
8.	If Changes Occur in Capacity Ratings (Items Nu		e Last Report, Give B	Reason:
•	None			
		N T		
	Power Level To Which Restricted, If Any (Net M	We): None		
.0.	Reasons For Restrictions, If Any:			
				
				•
		This Month	Year to Date	Cumulative
٦ _	Hours In Reporting Period	719	2879	7320
2.		0	1522.7	4065.9
.3.	•	0	0	0
4.	Hours Generator On-Line	0 .	1460.1	3890.7
.5.	Unit Reserve Shutdown Hours	0	0	0
6.	Gross Thermal Energy Generated (MWH)	0	4,505,479	11,200,699
7.	Gross Electrical Energy Generated (MWH)	0	1,548,500	3,734,810
8.	Net Electrical Energy Generated(MWH)	(4374)*	1,471,031*	3,529,249*
9.	Unit Service Factor	0	50.7	53.2
.0.	Unit Availability Factor	0	50.7	53.2
1.	-	0	47.4	44.7
2.	Unit Capacity Factor (Using DER Net)	0	46.9	44.2
:3.	Unit Forced Outage Rate	100	49.3	31.3
4.	Shutdowns Scheduled Over Next 6 Months (Type, None	Date, and Duration of	Each):	
		······································	· · · · · · · · · · · · · · · · · · ·	
		······································		
5.	If Shut Down At End of Report Period, Estimate	d Date of Startup:	June 17, 197	8
6.	•			
,	•		Forecast	Achieved
	INITIAL CRITICALITY	•	9/30/76	12/11/76
3-1-	7.R2 INITIAL ELECTRICITY		<u>11/1/7</u> 6	12/25/76
	COMMERCIAL OPERATION		12/20/76	6/30/77

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April, 1978

50-272 DOCKET NO .:

UNIT NAME: Salem No. 1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

TELEPHONE: (609) 365-7000 X507

NO.	DATE	TYPE	DURATION (HOURS)	reason ²	METHOD OF SHUITING 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	В	1		N/A	Turbine	High vibration, Main Turbine Bearing No. 3., Unit Shut Down to make necessary turbine repairs.

F: Forced S: Scheduled

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

4-Other (Explain)

Exhibit G - Instructions

for Preparation of Data Entry Sheets for Licensee

Event Report(LER) File

(NUREG-0161)

Exhibit 1-Same Source

8-1-7.R2 Page 4 of 13 Method: 1-Manual 2-Manual Scram. 3-Automatic Scram.

MAJOR PLANT MODIFICATIONS
REPORT MONTH April, 1978

DOCKET NO.: 50-272

UNIT AME: Salem #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

*DCR NO.	PRINCIPLE SYSTEM	SUBJECT
ED-0062	Steam Generator Feed	Modify Recirculation Valve (11 & 12 BF32) Controls from
ED-0082	Refueling Equipment	Modulating to Open-Close. 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 llRCP
ED-0192	Waste Liquid	Replace Limit Switches on 11 & 12 LW9 with improved type
ED-0204	ЕН	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.
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	<u> </u>	

^{*} DESIGN CHANGE REQUEST 8-1-7.R1

MAJOR PLANT MODIFICATIONS REPORT MONTH April, 1978

DOCKET NO.: 50-272 UNIT AME:

Salem #1

DATE:

May 10, 1978

COMPLETED BY: L. K. Miller

*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.

DEPARTMENT PERFORMANCE
REPORT MONTH April, 1978

DOCKET NO.: 50-272

UNIT MAME: Salem Unit #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

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WORK ORDER	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
OD-8555	Valve llMS10	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 11,C-51.
PD-4688	rms 1r9	Check calibration.	Replaced meter.
OD-8696	Valve lMS132	Position indication linkage misaligned.	Aligned linkage and stem.

DEPARTMENT MAINTENANCE
REPORT MONTH April, 1978

DOCKET_NO.: 50-272

UNIT WAME: Salem Unit #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

	•		
WORK ORDER NO.	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
OD-8251.	Boric Acid Evaporator.	Disc ruptured.	Replaced rupture disc.
OD-8697	Valve lCV141	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	l 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 IlSJ54	Bent operator.	Repaired threads on yoke bushing.
OD-6858	16 Service Water	High Bearing Temp.	Replaced upper bearings and brazed pin hole leaks in cooler.

DEPARTMENT MAINTENANCE

REPORT MONTH April, 1978

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UNIT WAME: Salem Unit #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

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WORK ORDER	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 lCV166	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 contin- uously.	Disassembled and cleaned strainer.
OD-5844	Valve 1SJ908	Drain valve and line plugged.	Cleared valve and line.

DEPARTMENT MAINTENANCE

REPORT MONTH April, 1978

DOCKET_NO.: 50-272

UNIT CAME: Salem Unit #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

			
WORK ORDER NO.	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
OD-8673	Valve 11CV156	Bonnet leak.	Replaced diaphragm.
OD-6854	Loop II RID Loop return orifice.	Flange leak.	Replaced flange gasket.
OD-8640	Valve lCV175	Pipe blockage.	Cleared line, répacked check valve.
OD-4713	Valve 14WG33	Flange leak.	Replaced flange gasket.
OD-8687	ll Service Water Strainer.	Strainer fails to work on auto with 30 PSI ΔP .	Replaced motor leads.
OD-8635	ll Service Water Strainer.	Strainer fails to run with 20 PSI AP.	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.

DEPARTMENT MAINTENANCE

REPORT MONTH April, 1978

DOCKET_NO.:____ 50-272

UNIT Salem Unit #1

DATE: May 10, 1978

COMPLETED BY: L. K. Miller

609-365-7000 X507

. ·		TELEP	PHONE: 609-365-7000 X507
WORK ORDER NO.	EQUIPMENT	FAILURE DESCRIPTION	CORRECTIVE ACTION
MD-2567	Valve IlRC22	Packing leak.	Repacked valves.
OD-6717	Valves 11 and 12SW122.	Packing leak.	Repacked valves.
MD-2562	Valves 1CV139 and 140.	Packing leak.	Repacked valves.
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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

	DATE: May 10, 1978
	COMPLETED BY: L. K. Miller
	TELEPHONE: 609-365-7000
	EXT. 507
MON	TH: April, 1978
1101	
7	Refueling information has changed from last month:
1.	Refueling information has changed from fast 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
	HOI DIIIIII IO IO DIIII
	B. Has the reload fuel design been reviewed by the Station Operation
	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:
٠,	NONE
7.	Number of Fuel Assemblies:
	A. In-Core
	B. In Spent Fuel Storage
8.	Present licensed spent fuel storage capacity: 264
	Future spent fuel storage capacity:
9.	Date of last refueling that can be discharged to the spent fuel
- •	pool assuming the present licensed capacity: April, 1982
	1

DOCKET NO.: 50-272

UNIT: SALEM NO. 1