

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-272
 Unit Name Salem # 1
 Date February 10, 1988
 Telephone 609-935-6000
 Extension 4451

Completed by Pell White

Month January 1988

Day Average Daily Power Level
(MWe-NET)

Day Average Daily Power Level
(MWe-NET)

1 0
 2 0
 3 0
 4 0
 5 0
 6 0
 7 0
 8 0
 9 0
 10 0
 11 0
 12 0
 13 0
 14 0
 15 0
 16 0

17 0
 18 0
 19 0
 20 0
 21 0
 22 0
 23 0
 24 0
 25 0
 26 0
 27 0
 28 0
 29 0
 30 0
 31 0

IE 24/11

OPERATING DATA REPORT

Docket No .50-272
 Date: February 10, 1988
 Telephone: 935-6000
 Extension: 4451

Completed by Pell White

Operating Status

1. Unit Name	<u>Salem No. 1</u>	<u>Notes</u>
2. Reporting Period	<u>January 1988</u>	
3. Licensed Thermal Power (MWt)	<u>3411</u>	
4. Nameplate Rating (Gross MWe)	<u>1170</u>	
5. Design Electrical Rating (Net MWe)	<u>1115</u>	
6. Maximum Dependable Capacity (Gross MWe)	<u>1149</u>	
7. Maximum Dependable Capacity (Net MWe)	<u>1106</u>	
8. If Changes Occur in Capacity Ratings (items 3 through 7) since Last Report, Give Reason	<u>N/A</u>	

9. Power Level to Which Restricted, if any (Net MWe) NA

10. Reasons for Restrictions, if any N/A

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	<u>744</u>	<u>744</u>	<u>92833</u>
12. No. of Hrs. Reactor was Critical	<u>0</u>	<u>0</u>	<u>57695.1</u>
13. Reactor Reserve Shutdown Hrs.	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>0</u>	<u>0</u>	<u>55791.8</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>172269008.8</u>
17. Gross Elec. Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>57194490</u>
18. Net Elec. Energy Generated (MWH)	<u>-8658</u>	<u>-8658</u>	<u>54387551</u>
19. Unit Service Factor	<u>0</u>	<u>0</u>	<u>60.1</u>
20. Unit Availability Factor	<u>0</u>	<u>0</u>	<u>60.1</u>
21. Unit Capacity Factor (using MDC Net)	<u>0</u>	<u>0</u>	<u>53.0</u>
22. Unit Capacity Factor (using DER Net)	<u>0</u>	<u>0</u>	<u>52.5</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>24.2</u>

24. Shutdowns scheduled over next 6 months (type, date and duration of each)

N/A

25. If shutdown at end of Report Period, Estimated Date of Startup:
2-22-88

UNIT SHUTDOWN AND POWER REDUCTIONS
 REPORT MONTH JANUARY 1988

Docket No. 50-272
 Unit Name Salem No.1
 Date February 10, 1988
 Telephone 609-935-6000
 Extension 4451

Completed by Pell White

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
0356	12-24-87	S	364.5	B	9	---	WA	ZZZZZZ	SERVICE WATER REPAIR CONTROL ROD DRIVE
0001	1-8-88	S	571.5	B	9	---	CA	CRDRVE	MECHANISM LEAKS

1	2 Reason	3 Method	4 Exhibit G	5 Exhibit 1
F: Forced	A-Equipment Failure-explain	1-Manual	Instructions	Salem as
S: Scheduled	B-Maintenance or Test	2-Manual Scram.	for Prepara-	Source
	C-Refueling	3-Automatic Scram.	tion of Data	
	D-Regulatory Restriction	4-Continuation of	Entry Sheets	
	E-Operator Training & Licensing Exam	Previous Outage	for Licensee	
	F-Administrative	5-Load Reduction	Event Report	
	G-Operational Error-explain	9-Other	(LER) File	
	H-Other-explain		(NUREG 0161)	

PSE&G SALEM GENERATING STATION
SAFETY RELATED WORK ORDER LOG

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
870225094	1	1RCE001 REACTOR VESSEL STUDS FAILURE DESCRIPTION: MODIFY REACTOR VESSEL STUDS TO RECEIVE BIACH QUICK DISCONNECT.
870507053	1	1RCEI FAILURE DESCRIPTION: PLEASE DISASSEMBLE UNIT 1 REACTOR FOR REFUELING.
870615045	1	13 REACTOR COOLANT PUMP FAILURE DESCRIPTION: INSPECT AND REPLACE 13 REACTOR COOLANT PUMP SEAL.
870805089	1	14SW10 FAILURE DESCRIPTION: PIPING DOWNSTREAM OF 14SW10 HAS A HOLE IN IT. REPAIR.
870908147	1	1CC160 FAILURE DESCRIPTION: 1CC160 LEAKING PAST ITS SEATS, DISASSEMBLE VALVE.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
871010046	1	1RA3908
		FAILURE DESCRIPTION: 1RA3908 HAS A THRU THE WALL LEAK. REPAIR.
871012125	1	13RC13
		FAILURE DESCRIPTION: 13RC13 HAS DAMAGED THREADS ON THE STEM AND ON HANDWHEEL. REWORK.
871015131	1	11CFCU
		FAILURE DESCRIPTION: 11CFCU DISCHARGE FLEX JOINT RIPPED AT STAIRWAY LANDING.
871016079	1	11 BAT PUMP
		FAILURE DESCRIPTION: 11 BORIC ACID TRANSFER PUMP HAS A MECHANICAL SEAL LEAK. REPLACE SEAL.
871028128	1	1CC368
		FAILURE DESCRIPTION: 1CC368 HAS FAILED THE LEAK RATE TEST.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
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871120047

1	1H11X 460V #1 DEAR.VAC. PUMP BREAKER
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FAILURE DESCRIPTION: 1H11X 460 VOLT BREAKER FOR #1 DEAERATOR VACUUM PUMP DOES NOT CLOSE.

871121018

1	15SW12
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FAILURE DESCRIPTION: 15SW12, REPAIR PIPING LEAK AT ELBOW UPSTREAM OF VALVE (SS).

871203177

1	HANGER MSG-168
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FAILURE DESCRIPTION: HANGER MSG-168, WELD REPAIR AND REINFORCE HANGER SUPPORT.

871205033

1	CVCS LINE HANGER
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FAILURE DESCRIPTION: HANGER HAS BENT RODS ON CVCS LINE HANGER LOCATED AT #12 RCP. REPAIR.

871220050

1	1VC6
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FAILURE DESCRIPTION: 1VC6 IS LEAKING. REWORK.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
871221188	1	11SW21
		FAILURE DESCRIPTION: 11SW21, WELD LEAK DOWNSTREAM OF 11SW21, REPAIR.
871223128	1	12 SW PUMP MOTOR
		FAILURE DESCRIPTION: 12 SW PUMP MOTOR SUBMERGED IN WATER DUE TO S.W. BAY FLOODING. REMOVE FOR OVERHAUL.
871226037	1	13SW20
		FAILURE DESCRIPTION: 13SW20 VALVE DAMAGED. REPLACE VALVE.
871230153	1	1WR81
		FAILURE DESCRIPTION: 1WR81 HAS FAILED THE LEAK RATE TEST. REWORK AA-42.
871230174	1	1SW26
		FAILURE DESCRIPTION: 1SW26 LEAKS THROUGH. OPEN, INSPECT AND REPAIR AS REQUIRED.

SALEM UNIT 1

WO NO	UNIT	EQUIPMENT IDENTIFICATION
880107089	1	1CV241 AA27 RELIEF VALVE
		FAILURE DESCRIPTION: 1CV241 AA27 RELIEF VALVE LEAKING THROUGH, INSPECT AND REPAIR.
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880110098	1	1RCE1- REACTOR CAVITY FLOOR
		FAILURE DESCRIPTION: PERFORM NECESSARY STEPS TO REPAIR THE DEFECT IN THE CAVITY.
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MAJOR PLANT MODIFICATIONS
REPORT MONTH JANAURY 1988

DOCKET NO. 50-272
UNIT NAME: Salem 1
DATE: February 10, 1988
COMPLETED BY: J. Ronafalvy
TELEPHONE: 609/339-4455

*DCR

SAFETY EVALUATION 10 CFR 50.59

This information was not available at the time of this report,
however, it will be included in future reports.

* DCR - Design Change Request

SALEM GENERATING STATION
MONTHLY OPERATING SUMMARY - UNIT NO. 1
JANAURY 1988

The Unit entered Mode 3 on January 6, 1988. During the 102% hydrostatic test of the Reactor Coolant System (RCS), leaks were discovered on three (3) spare control rod drive mechanism (CRDM) penetrations at their lower canopy seal welds. The Unit was cooled down to Mode 5 on January 9, 1988, to facilitate repairs. During a detailed inspection of all CRDM columns while in Mode 5, evidence of leakage was found on three additional columns at the same area. Dye penetrant tests confirmed the existence of possible "pinhole" leaks on two (2) of the three (3) columns. Since none of the leaking columns were removed, the actual cause of the leakage was undetermined. However, inspection and analysis of the five (5) thermocouple columns yielded a possible cause. The thermocouple columns, which are similar in design to the spare CRDM columns, were removed in conjunction with the installation of the Bottom Mounted Instrument System. The canopy seal areas of all five thermocouple columns exhibited evidence of thermal crevices postulated to be from incomplete fusion of the consumable insert used during the welding process of the canopy seals during the original fabrication. Our analysis, and that of our consultant, suspect some type of pitting originating in the crevice area might be the cause of the canopy seal leaks. None of the five (5) thermocouple columns had any evidence of crevice propagation pitting or leakage. Since there are a total of thirteen spare CRDM columns, it was decided to repair all of them to preclude further problems due to leakage. A weld buildup technique was used on twelve (12) columns and a split canopy seal ring was used on the thirteenth. The NRC, both at the Region I and NRR levels, was given a presentation and kept informed of our findings and repairs.

Other work performed during the period included: detensioning, removal, and retensioning of nine (9) Reactor Vessel Head studs to remove any boric acid accumulation; cleaning of the vessel head; repairs to the Reactor Cavity seal area; replacement of 12MS14 Main Steam Safety Valve, and replacement of PR3 Pressurizer Safety Valve. In addition, a leak detection system utilizing an air particulate monitor has been designed and is being installed to detect RCS leakage from penetrations in the Reactor Vessel Head.

The Service Water Bay 1 flood in December 1987, was caused by partial failure of the 13SW20 butterfly valve seat. The valve has been replaced with a new type, hydrostatically tested, and returned to service. All recovery activities associated with other equipment in the Bay have been completed.

REFUELING INFORMATION

COMPLETED BY: J. Ronafalvy DOCKET NO.: 50-272
UNIT NAME: Salem 1
DATE: February 10, 1988
TELEPHONE: 609/935-6000
EXTENSION: 4497

Month JANUARY 1988

1. Refueling information has changed from last month:
YES X NO _____
2. Scheduled date for next refueling: March 4, 1989
3. Scheduled date for restart following refueling: April 18, 1989
4. A) Will Technical Specification changes or other license amendments be required?
YES _____ NO _____
NOT DETERMINED TO DATE X
B) Has the reload fuel design been reviewed by the Station Operating Review Committee?
YES _____ NO X
If no, when is it scheduled? January 1989
5. Scheduled date(s) for submitting proposed licensing action:
January if required
6. Important licensing considerations associated with refueling:
NONE

7. Number of Fuel Assemblies:
A) Incore 193
B) In Spent Fuel Storage 464
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 2001



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

Salem Generating Station

February 15, 1988

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

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

In compliance with Section 6.9.1.6, Reporting Requirements for the Salem Technical Specifications, the original copy of the monthly operating reports for the month of January 1988 are being sent to you.

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

Sincerely yours,

J. M. Zupko, Jr. / jmw
J. M. Zupko, Jr.

General Manager - Salem Operations

RH:sl

cc: Mr. William T. Russell
Regional Administrator USNRC
Region I
631 Park Avenue
King of Prussia, PA 19406

Enclosures
8-1-7.R4

JE24
1/1

The Energy People