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March 1988

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# LICENSED OPERATING REACTORS

STATUS SUMMARY REPORT  
DATA AS OF 02-29-88

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UNITED STATES NUCLEAR REGULATORY COMMISSION



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## STATUS SUMMARY REPORT

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OFFICE OF ADMINISTRATION AND RESOURCES MANAGEMENT  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555



## STATEMENT OF PURPOSE

The U.S. Nuclear Regulatory Commission's monthly LICENSED OPERATING REACTORS Status Summary Report provides data on the operation of nuclear units as timely and accurately as possible. This information is collected by the Office of Information Resources Management, from the Headquarters Staff of NRC's Office of Inspection and Enforcement, from NRC's Regional Offices, and from utilities. Since all of the data concerning operation of the units is provided by the utility operators less than two weeks after the end of the month, necessary corrections to published information are shown on the ERRATA page.

This report is divided into three sections: the first contains monthly highlights and statistics for commercial operating units, and errata from previously reported data; the second is a compilation of detailed information on each unit, provided by NRC Regional Offices, IE Headquarters and the Utilities; and the third section is an appendix for miscellaneous information such as spent fuel storage capability, reactor years of experience and non-power reactors in the United States.

The percentage computations, Items 20 through 24 in Section 2, the vendor capacity factors on page 1-7, and actual vs. potential energy production on Page 1-2 are computed using actual data for the period of consideration. The percentages listed in power generation on Page 1-2 are computed as an arithmetic average. The factors for the life-span of each unit (the "Cumulative" column) are reported by the utility and are not entirely re-computed by NRC. Utility power production data is checked for consistency with previously submitted statistics.

It is hoped this status report proves informative and helpful to all agencies and individuals interested in analyzing trends in the nuclear industry which might have safety implications, or in maintaining an awareness of the U.S. energy situation as a whole.

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## G L O S S A R Y

AVERAGE DAILY POWER LEVEL (MWe)	The net electrical energy generated during the day (measured from 0001 to 2400 hours inclusive) in megawatts hours, divided by 24 hours.
LICENSED THERMAL POWER (MWe)	The maximum thermal power of the reactor authorized by the NRC, expressed in megawatts.
DATE OF COMMERCIAL OPERATION	Date unit was declared by utility owner to be available for the regular production of electricity; usually related to satisfactory completion of qualification tests as specified in the purchase contract and to accounting policies and practices of utility.
DESIGN ELECTRICAL RATING (DER) (NET MWe)	The nominal net electrical output of the unit specified by the utility and used for the purpose of plant design.
FORCED OUTAGE	An outage required to be initiated no later than the weekend following discovery of an offnormal condition.
FORCED OUTAGE HOURS	The clock hours during the report period that a unit is unavailable due to forced outages.
GROSS ELECTRICAL ENERGY GENERATED (MWH)	Electrical output of the unit during the report period as measured at the output terminals of the turbine generator, in megawatts hours.
GROSS HOURS	The clock hours from the beginning of a specified situation until its end. For outage durations, the clock hours during which the unit is not in power production.
GROSS THERMAL ENERGY GENERATED (MWH)	The thermal energy produced by the unit during the report period as measured or computed by the licensee in megawatt hours.
HOURS GENERATOR ON-LINE	Also, "Unit Service Hours." The total clock hours in the report period during which the unit operated with breakers closed to the station bus. These hours added to the total outage hours experienced by the unit during the report period, shall equal the hours in the report period.
HOURS IN REPORTING PERIOD	<p>For units in power ascension at the end of the period, the gross hours from the beginning of the period or the first electrical production, whichever comes last, to the end of the period.</p> <p>For units in commercial operation at the end of the period, the gross hours from the beginning of the period or of commercial operation, whichever comes last, to the end of the period or decommissioning, whichever comes first.</p>

G L O S S A R Y (continued)

HOURS REACTOR CRITICAL	The total clock hours in the report period during which the reactor sustained a controlled chain reaction.
MAXIMUM DEPENDABLE CAPACITY (GROSS) (MDC Gross) (Gross MWe)	Dependable main-unit gross capacity, winter or summer, whichever is smaller. The dependable capacity varies because the unit efficiency varies during the year due to cooling water temperature variations. It is the gross electrical output as measured at the output terminals of the turbine generator during the most restrictive seasonal conditions (usually summer).
MAXIMUM DEPENDABLE CAPACITY (NET) (MDC Net) (Net MWe)	Maximum Dependable Capacity (Gross) less the normal station service loads.
NAMEPLATE RATING (Gross MWe)	The nameplate power designation of the generator in megavolt amperes (MVA) times the nameplate power factor of the generator. NOTE: The nameplate rating of the generator may not be indicative of the maximum or dependable capacity, since some other item of equipment of a lesser rating (e.g., turbine) may limit unit output.
NET ELECTRICAL ENERGY GENERATED	Gross electrical output of the unit measured at the output terminals of the turbine generator during the reporting period, minus the normal station service electrical energy utilization. If this quantity is less than zero, a negative number should be recorded.
OUTAGE	A situation in which no electrical production takes place.
OUTAGE DATE	As reported on Appendix D of Reg. Guide 1.16, the date of the start of the outage. If continued from a previous month, report the same outage date but change "Method of Shutting Down Reactor" to "4 (continuations)" and add a note: "Continued from previous month."
OUTAGE DURATION	The Total clock hours of the outage measured from the beginning of the report period or the outage, whichever comes last, to the end of the report period or the outage, whichever comes first.
OUTAGE NUMBER	A number unique to the outage assigned by the licensee. The same number is reported each month in which the outage is in progress. One format is "76-05" for the fifth outage to occur in 1976.
PERIOD HOURS	See "Hours in Reporting Period."
POWER REDUCTION	A reduction in the Average Daily Power Level of more than 20% from the previous day. All power reductions are defined as outage of zero hours durations for the purpose of computing unit service and availability factors, and forced outage rate.

G L O S S A R Y (continued)

REACTOR AVAILABLE HOURS	The Total clock hours in the report period during which the reactor was critical or was capable of being made critical. (Reactor Reserve Shutdown Hours + Hours Reactor Critical.)
REACTOR AVAILABILITY FACTOR	$\frac{\text{Reactor Available Hours} \times 100}{\text{Period Hours}}$
REACTOR RESERVE SHUTDOWN	The cessation of criticality in the reactor for administrative or other similar reasons when operation could have been continued.
REACTOR RESERVE SHUTDOWN HOURS	The total clock hours in the report period that the reactor is in reserve shutdown mode. NOTE: No credit is given for NRC imposed shutdowns.
REACTOR SERVICE FACTOR	$\frac{\text{Hours Reactor Critical} \times 100}{\text{Period Hours}}$
REPORT PERIOD	Usually, the preceding calendar month. Can also be the preceding calendar year, (Year-to-Date), or the life-span of a unit (cumulative).
RESTRICTED POWER LEVEL	Maximum net electrical generation to which the unit is restricted during the report period due to the state of equipment, external conditions, administrative reasons, or a direction by NRC.
SCHEDULED OUTAGE	Planned removal of a unit from service for refueling, inspection, training, or maintenance. Those outages which do not fit the definition of "Forced Outage" perforce are "Scheduled Outages."
STARTUP AND POWER ASCENSION TEST PHASE	Period following initial criticality during which the unit is tested at successively higher levels, culminating with operation at full power for a sustained period and completion of warranty runs. Following this phase, the utility generally considers the unit to be available for commercial operation.
UNIT	The set of equipment uniquely associated with the reactor, including turbine generators, and ancillary equipment, considered as a single electrical energy production facility.
UNIT AVAILABLE HOURS	The total clock hours in the report period during which the unit operated on-line or was capable of such operation. (Unit Reserve Shutdown Hours + Hours Generator On-Line.)



G L O S S A R Y (continued)

UNIT AVAILABILITY FACTOR	$\frac{\text{Unit Available Hours} \times 100}{\text{Period Hours}}$
UNIT CAPACITY FACTORS	
- Using Licensed Thermal Power	$\frac{\text{Gross Thermal Energy Generated} \times 100}{\text{Period Hours} \times \text{Lic. Thermal Power}}$
- Using Nameplate Rating	$\frac{\text{Gross Electrical Energy Generated} \times 100}{\text{Period Hours} \times \text{Nameplate Rating}}$
- Using DER	$\frac{\text{Net Electrical Energy Generated} \times 100}{\text{Period Hours} \times \text{DER}}$
- Using MDC Gross	$\frac{\text{Gross Electrical Energy Generated} \times 100}{\text{Period Hours} \times \text{MDC Gross}}$
- Using MDC Net	$\frac{\text{Net Electrical Energy Generated} \times 100}{\text{Period Hours} \times \text{MDC Net}}$
NOTE: if MDC GROSS and/or MDC NET have not been determined, the DER is substituted for this quantity for Unit Capacity Factor calculations.	
UNIT FORCED OUTAGE RATE	$\frac{\text{Forced Outage Hours} \times 100}{\text{Unit Service Hours} + \text{Forced Outage Hours}}$
UNIT RESERVE SHUTDOWN	The removal of the unit from on-line operation for economic or other similar reasons when operation could have been continued.
UNIT RESERVE SHUTDOWN HOURS	The total clock hours in the report period during which the unit was in reserve shutdown mode.
UNIT SERVICE FACTOR	$\frac{\text{Unit Service Hours} \times 100}{\text{Period Hours}}$
UNIT SERVICE HOURS	See "Hours Generator On-Line."

NOTE:

At the end of each statement in the Enforcement Summary for any given facility may be found numbers in parentheses. These numbers are related to the inspection, e.g., 8111 (the 11th inspection of the plant in 1981); and the severity level, e.g., 4 (severity level IV). Violations are ranked by severity levels from I through V with level I being the most serious. The severity level is used in the determination of any resulting enforcement action. Gray Book lists severity level by Arabic numbers corresponding to the Roman numerals. Details on the various severity levels and enforcement actions can be found in Appendix C to 10 CFR Part 2 published in the Federal Register of March 9, 1982 pages 9987 through 9995, and as corrected April 14, 1982.

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**SECTION 1**

**CURRENT  
DATA  
SUMMARIES**

MONTHLY HIGHLIGHTS

\*\*\*\*\* 104 IN COMMERCIAL OPERATION . . . . . 90,354 CAPACITY MWe (Net) --Based upon maximum dependable  
 \* LICENSED \* (a) 2 IN POWER ASCENSION. . . . . 2,200 capacity; design elec. rating  
 \* POWER \* used if MDC not determined  
 \* REACTORS \* (b) 106 LICENSED TO OPERATE . . . . . 92,554 TOTAL  
 \*\*\*\*\* (c) 3 LICENSED FOR FUEL LOADING  
 AND LOW POWER TESTING

	MDC NET	(b) Excludes these plants licensed for operation which are shut down indefinitely or permanently	DER	(c)	DATE	DER
(a) BRAIDWOOD 1	1120	1. DRESDEN 1.....	200	BRAIDWOOD 2	12/18/87	1120
NINE MILE POINT 2	1080	2. HUMBOLDT BAY....	65	SHOREHAM	07/03/85	820
		3. TMI 2.....	906	SOUTH TEXAS 1	08/21/87	1250
		4. LACROSSE.....	50			

		REPORT MONTH	PREVIOUS MONTH	YEAR-TO-DATE
*****	1. GROSS ELECTRICAL (MWHE)	44,136,950	46,973,074	91,110,024
* POWER *	2. NET ELECTRICAL (MWHE)	41,968,542	44,710,213	86,678,755
* GENERATION *	3. AVG. UNIT SERVICE FACTOR (%)	71.1	73.2	72.2
*****	4. AVG. UNIT AVAILABILITY FACTOR (%)	71.1	73.2	72.2
	5. AVG. UNIT CAPACITY FACTOR (MDC) (%)	67.2	69.6	68.4
	6. AVG. UNIT CAPACITY FACTOR (DER) (%)	65.7	68.0	66.8
	7. FORCED OUTAGE RATE (%)	13.8	12.7	13.3

		% OF POTENTIAL PRODUCTION
*****	1. ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD. . . . . 41,968,542 NET	66.7
* ACTUAL VS. *	2. ENERGY NOT PRODUCED DUE TO SCHEDULED OUTAGES (NET). . . . . 9,705,694 MWHe	15.4
* POTENTIAL *	3. ENERGY NOT PRODUCED DUE TO FORCED OUTAGES (NET) . . . . . 8,879,092 MWHe	14.1
* ENERGY *	4. ENERGY NOT PRODUCED FOR OTHER REASONS (NET) . . . . . 2,333,056 MWHe	3.7
* PRODUCTION *	POTENTIAL ENERGY PRODUCTION IN THIS PERIOD BY UNITS IN COMMERCIAL OPERATION 62,886,384 MWHe	100.0% TOTAL
*****	(Using Maximum Dependable Capacity Net)	
	5. ENERGY NOT PRODUCED DUE TO NRC-REQUIRED OUTAGES . . . . . 1,070,448 MWHe	
	6. ENERGY NOT PRODUCED DUE TO NRC RESTRICTED POWER LEVELS. . . . . MWHe	4 UNIT(S) WITH NRC RESTRICTION

		NUMBER	HOURS	PERCENT OF CLOCK TIME	MWHE LOST PRODUCTION
*****	1. FORCED OUTAGES DURING REPORT PERIOD . . . . .	47	9,137.4	12.6	8,879,092
* OUTAGE *	2. SCHEDULED OUTAGES DURING REPORT PERIOD. . . . .	34	11,748.7	16.2	9,705,694
* DATA *					
*****	TOTAL	81	20,886.1	28.9	18,584,786

MWHE LOST PRODUCTION = Down time X maximum dependable capacity net

MONTHLY HIGHLIGHTS

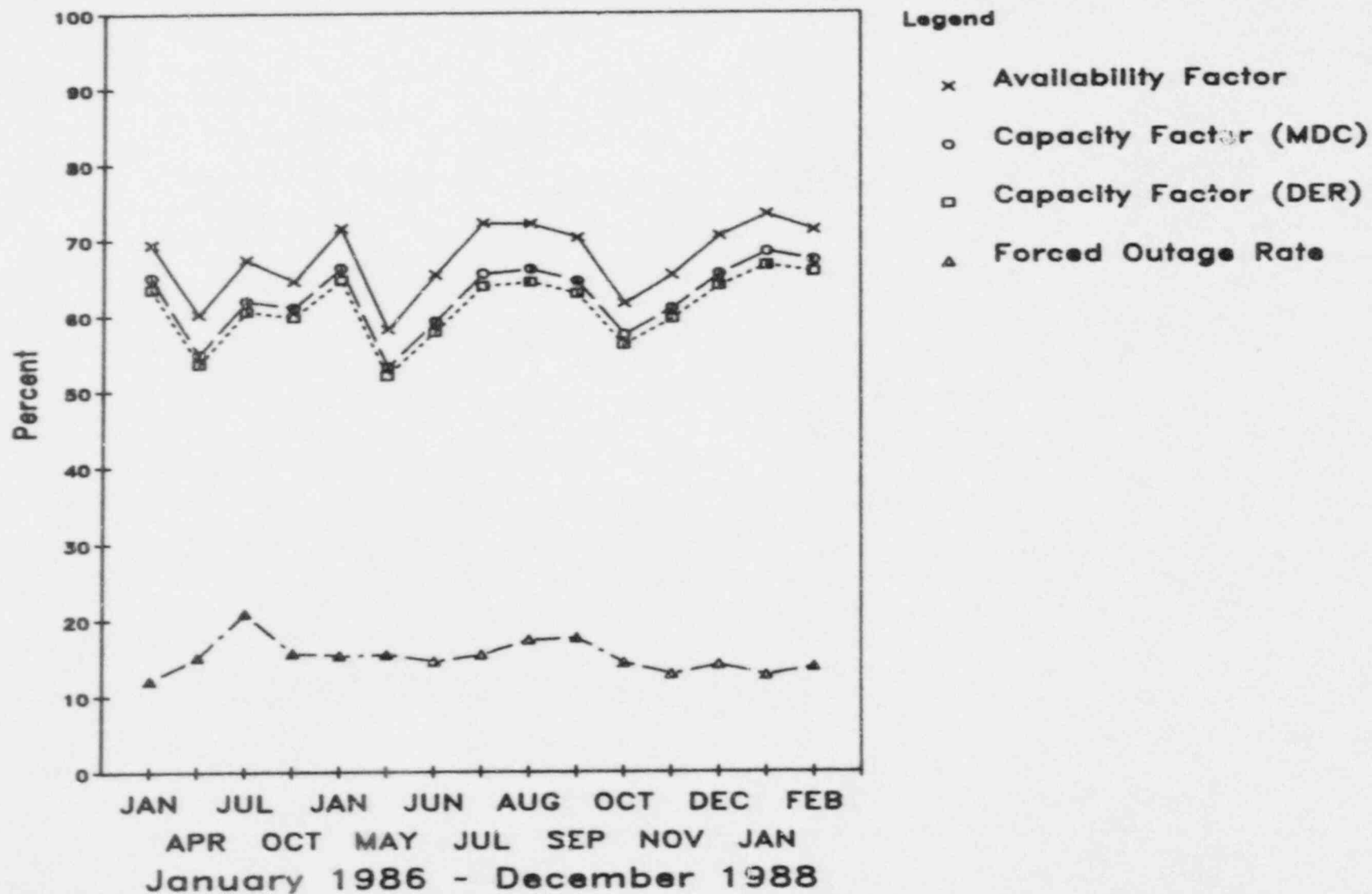
		NUMBER	HOURS LOST
*****	A - Equipment Failure . . . . .	30	3,867.0
* REASONS *	B - Maintenance or Test . . . . .	16	2,267.0
* FOR *	C - Refueling . . . . .	18	9,488.1
* SHUTDOWNS *	D - Regulatory Restriction . . . . .	2	1,392.0
*****	E - Operator Training & License Examination . . . . .	0	0.0
	F - Administrative . . . . .	7	3,570.4
	G - Operational Error . . . . .	6	187.2
	H - Other . . . . .	2	114.4
	TOTAL	81	20,886.1

	MDC (MWe Net)	POWER LIMIT (MWe Net)	TYPE
*****			
* DERATED *	BYRON 1 1120	1097	Self-imposed
* UNITS *	BYRON 2 1120	1055	Self-imposed
*****	COOK 1 1020	920	Self-imposed
	COOK 2 1060	864	Self-imposed
	DAVIS-BESSE 1 860	697	Self-imposed
	FORT ST VRAIN 330	271	NRC Restriction
	LASALLE 1 1036	1050	Self-imposed
	OCONEE 2 846	700	Self-imposed
	PEACH BOTTOM 2 1051	0	NRC Restriction
	PEACH BOTTOM 3 1035	0	NRC Restriction
	RANCHO SECO 1 873	0	NRC Restriction
	SAN ONOFRE 1 436	390	Self-imposed

	UNIT	REASON	UNIT	REASON	UNIT	REASON	UNIT	REASON
*****	ARKANSAS 2	C	BEAVER VALLEY 1	C	BEAVER VALLEY 2	B	BIG ROCK POINT 1	A
* SHUTDOWNS *	BROWNS FERRY 1	F	BROWNS FERRY 2	F	BROWNS FERRY 3	F	BRUNSWICK 1	B
* GREATER *	BRUNSWICK 2	C	CALLAWAY 1	B	CATAWBA 2	C	COOPER STATION	A
* THAN 72 HRS *	GINNA	C	HADDAM NECK	C	HATCH 2	C	HOPE CREEK 1	C
* EACH *	INDIAN POINT 2	B	MILLSTONE 2	C	MILLSTONE 3	C	NINE MILE POINT 1	C
*****	NORTH ANNA 1	A	NORTH ANNA 2	B	OCONEE 2	C	PALO VERDE 1	A
	PALO VERDE 2	C	PEACH BOTTOM 2	C	PEACH BOTTOM 3	C	PERRY 1	A
	PILGRIM 1	C	PRAIRIE ISLAND 2	C	RANCHO SECO 1	D	ROBINSON 2	D
	SALEM 1	B	SAN ONOFRE 1	B	SEQUOYAH 1	F	SEQUOYAH 2	F
	TURKEY POINT 3	A	TURKEY POINT 4	A	VOGTLE 1	A	WASHINGTON NUCLEAR*	A
	WOLF CREEK 1	A	ZION 1	C				

# Unit Availability, Capacity, Forced Outage

Avg Unit Percentage as of February 1988



## AVERAGE DAILY POWER LEVEL FOR ALL COMMERCIALY OPERATING UNITS

This chart depicts the average daily power level for the units in commercial operation during the month.

The straight line on the graph labelled "SUM OF MDC" is plotted at the value shown by summing the separate maximum dependable capacities of the commercially operating units (in Net MWe). The plot shown below the line is calculated by summing the separate average daily power levels of the same units for each day of the month.

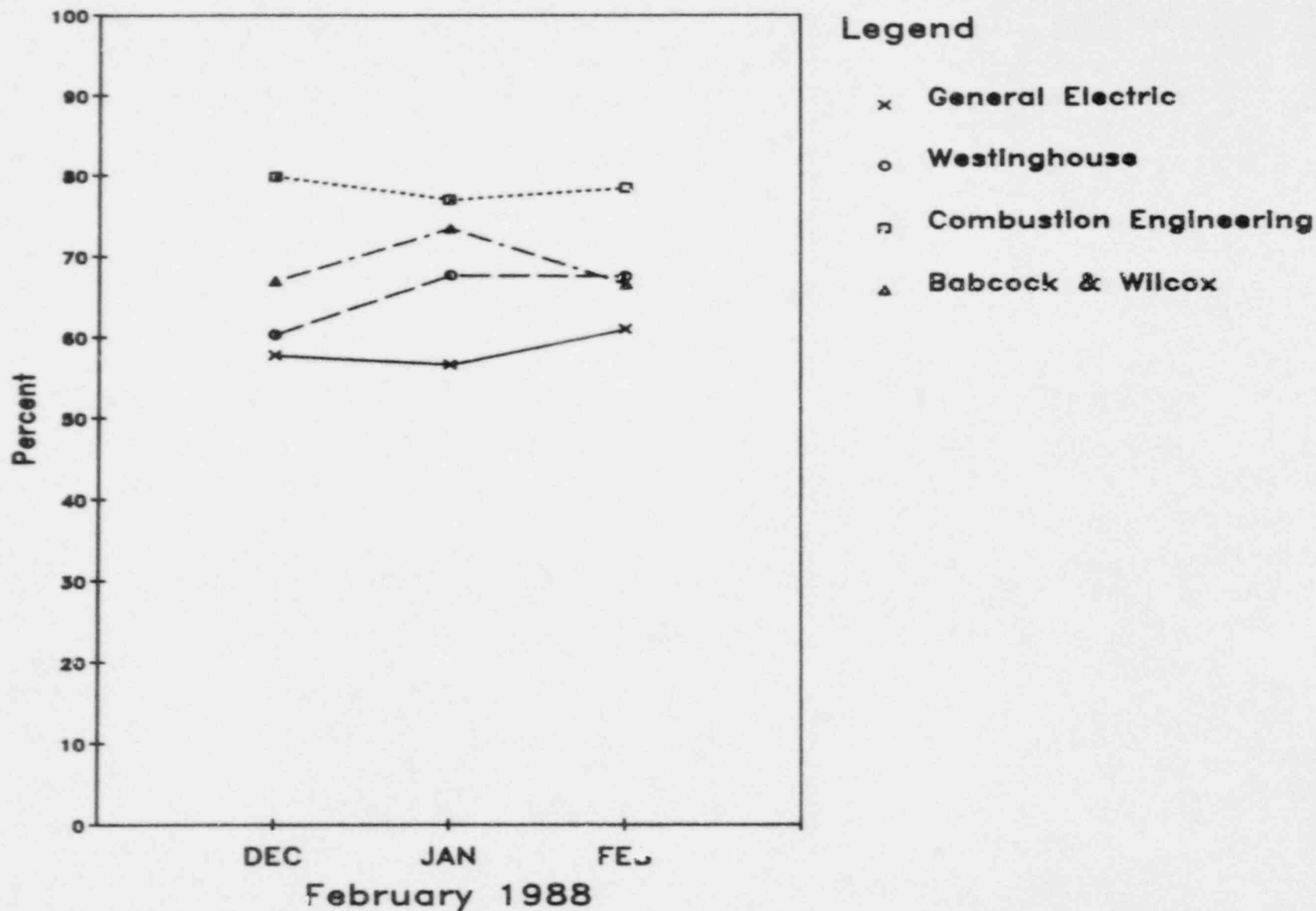
The scale on the left vertical axis runs in 1,000 MWe increments from 0 to 55,000 MWe (Net). The right vertical axis shows the percentage in 10% increments, up to 100% of the "SUM OF MDC".

It should be recognized that the 100% line would be obtainable only if all of the commercially operating units operated at 100% capacity, 24 hours per day, for the entire month. In other words, since any power generator must occasionally shut down to refuel and/or perform needed maintenance, and also since 100% capacity production is not always required by power demands, the 100% line is a theoretical goal and not a practical one.

THE AVERAGE POWER LEVEL CHART  
IS NOT AVAILABLE THIS REPORT  
PERIOD DUE TO SOFTWARE PROBLEMS.

# Vendor Average Capacity Factors

As of 2/29/88



NOTE: This display of average capacity factors provides a general performance comparison of plants supplied by the four nuclear steam supply system vendors. One must be careful when drawing conclusions regarding the reasons for the performance levels indicated, since plant performance may be affected by unspecified factors such as: (1) various plant designs and models are included for each vendor; (2) turbine/generators and (3) different architect/engineers are also involved.



AVERAGE CAPACITY FACTORS BY VENDORS

***** * GENERAL * * ELECTRIC * *****	CFMDC 0.0 BROWNS FERRY 1 0.0 BRUNSWICK 2 91.2 DRESDEN 3 106.7 GRAND GULF 1 98.6 LASALLE 1 101.4 MONTICELLO 0.0 PEACH BOTTOM 3 97.0 QUAD CITIES 2 102.6 VERMONT YANKEE 1	CFMDC 0.0 BROWNS FERRY 2 96.3 CLINTON 1 103.8 DUANE ARNOLD 90.4 HATCH 1 98.0 LASALLE 2 0.0 NINE MILE POINT 1 75.9 PERRY 1 80.7 RIVER BEND 1 33.6 WASHINGTON NUCLEAR 2	CFMDC 0.0 BROWNS FERRY 3 61.3 COOPER STATION 58.1 FERMI 2 0.0 HATCH 2 91.9 LIMERICK 1 101.0 OYSTER CREEK 1 0.0 PILGRIM 1 101.4 SUSQUEHANNA 1	CFMDC 19.7 BRUNSWICK 1 92.8 DRESDEN 2 101.7 FITZPATRICK 40.0 HOPE CREEK 1 100.0 MILLSTONE 1 0.0 PEACH BOTTOM 2 96.8 QUAD CITIES 1 97.0 SUSQUEHANNA 2
---	--	--	--	--

***** * BABCOCK & WILCOX * *****	CFMDC 74.0 ARKANSAS 1 5.3 OCONEE 2	CFMDC 95.9 CRYSTAL RIVER 3 100.9 OCONEE 3	CFMDC 74.5 DAVIS-BESSE 1 0.0 RANCHO SECO 1	CFMDC 91.4 OCONEE 1 95.6 THREE MILE ISLAND 1
--	--	---	--	--

***** * COMBUSTION * * ENGINEERING * *****	CFMDC 39.0 ARKANSAS 2 96.8 MAINE YANKEE 65.9 PALO VERDE 2 103.0 ST LUCIE 1	CFMDC 102.1 CALVERT CLIFFS 1 21.6 MILLSTONE 2 102.6 PALO VERDE 3 103.0 ST LUCIE 2	CFMDC 92.6 CALVERT CLIFFS 2 89.2 PALISADES 104.1 SAN ONOFRE 2 102.1 WATERFORD 3	CFMDC 79.9 FORT CALHOUN 1 0.0 PALO VERDE 1 92.7 SAN ONOFRE 3
---	--	---	---	---

***** * WESTINGHOUSE * *****	CFMDC 0.0 BEAVER VALLEY 1 81.0 CALLANAY 1 81.0 COOK 2 100.0 FARLEY 2 83.2 INDIAN POINT 2 101.8 MCGUIRE 2 102.8 POINT BEACH 1 0.0 ROBINSON 2 0.0 SEQUOYAH 1 97.5 SURRY 2 56.3 VOGTLE 1 97.0 ZION 2	CFMDC 49.3 BEAVER VALLEY 2 93.5 CATAWBA 1 72.2 DIABLO CANYON 1 12.1 GINNA 95.3 INDIAN POINT 3 54.3 MILLSTONE 3 102.6 POINT BEACH 2 2.2 SALEM 1 0.0 SEQUOYAH 2 101.0 TROJAN 39.4 WOLF CREEK 1	CFMDC 92.8 BYRON 1 0.0 CATAWBA 2 98.1 DIABLO CANYON 2 0.0 HADDAM NECK 102.8 KEWAUNEE 65.6 NORTH ANNA 1 104.4 PRAIRIE ISLAND 1 95.1 SALEM 2 92.4 SUMMER 1 23.0 TURKEY POINT 3 95.8 YANKEE-ROWE 1	CFMDC 69.7 BYRON 2 88.1 COOK 1 101.3 FARLEY 1 102.1 HARRIS 1 98.4 MCGUIRE 1 87.2 NORTH ANNA 2 53.3 PRAIRIE ISLAND 2 38.9 SAN ONOFRE 1 95.0 SURRY 1 37.9 TURKEY POINT 4 76.2 ZION 1
------------------------------------	---	---	--	---

\*\*\*\*\*  
\* OTHER INFO \*  
\*\*\*\*\*  
Units excluded are:  
BIG ROCK POINT  
DRESDEN 1  
FORT ST VRAIN  
HUMBOLDT BAY  
LACROSSE  
THREE MILE ISLAND 2

Capacity factor in this page, denoted as CFMDC, is a function of the net maximum dependable capacity. See the corresponding definition in the glossary. The vendor averages are computed by the formula:

	Net Electrical Energy Produced by Vendor × 100%				
	-----				
	Potential Electrical Production by Vendor in this Month				
	-----				
NET ELECTRICAL PRODUCTION.....	GE BWRs	West PWRs	Comb PWRs	B&W PWRs	ALL PWRs
MDC NET.....	12,626,557	18,524,256	7,616,384	3,097,685	29,238,325
CFMDC.....	29,794	39,508	13,949	6,704	60,161
	60.9	67.4	78.5	66.4	69.8

MEMORANDA

THE FOLLOWING UNITS USE WEIGHTED AVERAGES TO CALCULATE CAPACITY FACTORS:

ITEM 22

BIG ROCK POINT 1  
CALVERT CLIFFS 1  
FARLEY 1  
FITZPATRICK  
FORT CALHOUN 1  
INDIAN POINT 2\*  
KEWAUNEE  
OYSTER CREEK 1  
POINT BEACH 1 & 2  
THREE MILE ISLAND 1  
TURKEY POINT 3 & 4

ITEM 22 & 23

GINNA  
HADDAM NECK (CONNECTICUT YANKEE)  
MAINE YANKEE  
MILLSTONE 2  
OCONEE 1, 2, & 3  
YANKEE-ROWE 1

\*COMPUTED SINCE 7/1/74, THE DATE OF COMPLETION OF A 100 DAY - 100% POWER OPERATION TEST.

THE FOLLOWING UNITS USE THE DATE OF FIRST ELECTRICAL GENERATION INSTEAD OF COMMERCIAL OPERATION,  
FOR THEIR CUMULATIVE DATA:

ITEMS 20 THROUGH 24

COOK 1 & 2  
RIVER BEND  
SAN ONOFRE 1

ITEM 24 ONLY

BIG ROCK POINT 1

ERRATA  
CORRECTIONS TO PREVIOUSLY REPORTED DATA

NOTE: THESE CHANGES ARE REFLECTED IN THE DATA CONTAINED IN THE CURRENT REPORT

REVISED MONTHLY HIGHLIGHTS

N O N E  
N O N E  
N O N E  
N O N E

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**SECTION 2**

**OPERATING  
POWER  
REACTORS**

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1. Docket: 50-313 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. N. GOBELL (501) 964-3251

4. Licensed Thermal Power (MWT): 2568

5. Nameplate Rating (Gross MWe): 1003 X 0.9 = 903

6. Design Electrical Rating (Net MWe): 850

7. Maximum Dependable Capacity (Gross MWe): 883

8. Maximum Dependable Capacity (Net MWe): 836

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>115,629.0</u>
13. Hours Reactor Critical	<u>664.2</u>	<u>1,408.2</u>	<u>80,463.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,044.0</u>
15. Hrs Generator On-Line	<u>658.6</u>	<u>1,402.6</u>	<u>78,831.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>817.5</u>
17. Gross Therm Ener (MWH)	<u>1,335,547</u>	<u>2,844,663</u>	<u>181,679,670</u>
18. Gross Elec Ener (MWH)	<u>455,280</u>	<u>970,975</u>	<u>60,238,105</u>
19. Net Elec Ener (MWH)	<u>430,656</u>	<u>920,030</u>	<u>57,309,407</u>
20. Unit Service Factor	<u>94.6</u>	<u>97.4</u>	<u>68.1</u>
21. Unit Avail Factor	<u>94.6</u>	<u>97.4</u>	<u>68.8</u>
22. Unit Cap Factor (MDC Net)	<u>74.0</u>	<u>76.4</u>	<u>59.3</u>
23. Unit Cap Factor (DER Net)	<u>72.8</u>	<u>75.2</u>	<u>58.3</u>
24. Unit Forced Outage Rate	<u>5.4</u>	<u>2.6</u>	<u>13.6</u>
25. Forced Outage Hours	<u>37.4</u>	<u>37.4</u>	<u>12,435.0</u>

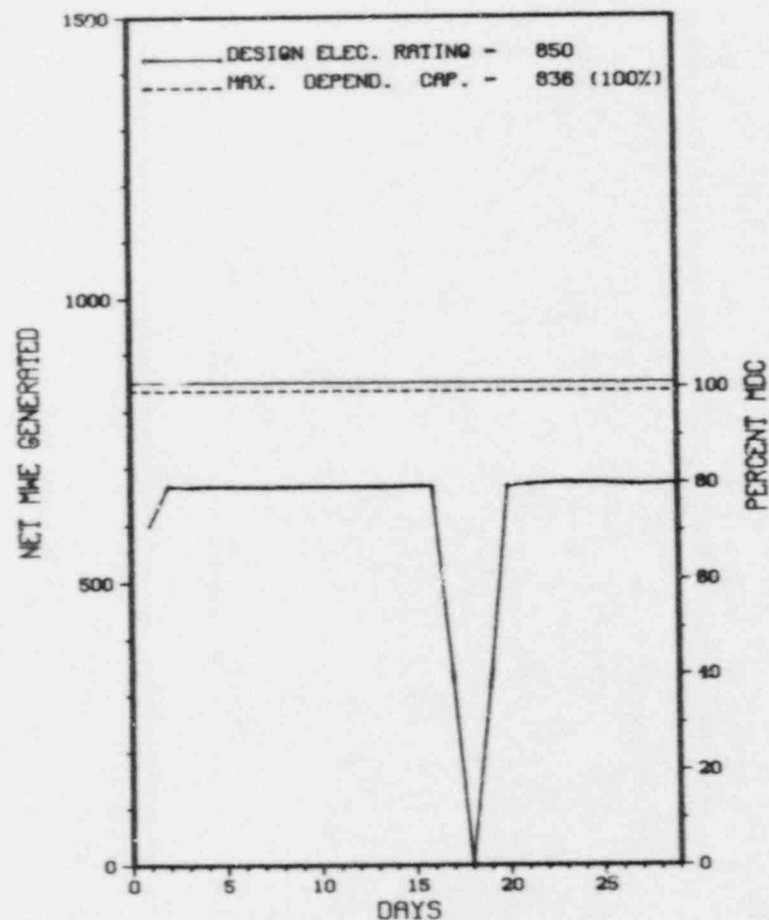
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
X ARKANSAS 1 X  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ARKANSAS 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* ARKANSAS 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8720	02/17/88	F	37.4	A	5		AA	90	REACTOR TRIPPED DUE TO INADVERTANT INSERTION OF GROUP SEVEN CONTROL RODS CAUSED BY PROGRAMMER ASSEMBLY FAILURE.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
ARKANSAS 1 INCURRED ONE FORCED OUTAGE IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* ARKANSAS 1 \*  
\*\*\*\*\*

Report Period FEB 1988

FACILITY DATA

FACILITY DESCRIPTION

LOCATION  
STATE.....ARKANSAS  
COUNTY.....POPE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...6 MI WNW OF  
RUSSELLVILLE, AR  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 6, 1974  
DATE ELEC ENER 1ST GENER...AUGUST 17, 1974  
DATE COMMERCIAL OPERATE...DECEMBER 19, 1974  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...DARDANELLE RESERVOIR  
ELECTRIC RELIABILITY  
COUNCIL..... SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....ARKANSAS POWER & LIGHT  
CORPORATE ADDRESS.....NINTH & LOUISIANA STREETS  
LITTLE ROCK, ARKANSAS 72203  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IC REGION RESPONSIBLE.....IV  
IE RESIDENT INSPECTOR.....B. JOHNSON  
LICENSING PROJ MANAGER.....G. DICK  
DOCKET NUMBER.....50-313  
LICENSE & DATE ISSUANCE...DPR-51, MAY 21, 1974  
PUBLIC DOCUMENT ROOM.....ARKANSAS TECH UNIVERSITY  
RUSSELLVILLE, ARKANSAS 72801

I N S P E C T I O N    S T A T U S

INSPECTION SUMMARY

NONE

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:  
ONE REACTOR COOLANT PUMP OUT OF SERVICE  
FACILITY ITEMS (PLANS AND PROCEDURES):  
NONE





1. Docket: 50-368                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: D. F. HARRISON (501) 964-3743

4. Licensed Thermal Power (MWT):                      2815

5. Nameplate Rating (Gross MWe):                      943

6. Design Electrical Rating (Net MWe):                      912

7. Maximum Dependable Capacity (Gross MWe):                      897

8. Maximum Dependable Capacity (Net MWe):                      858

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

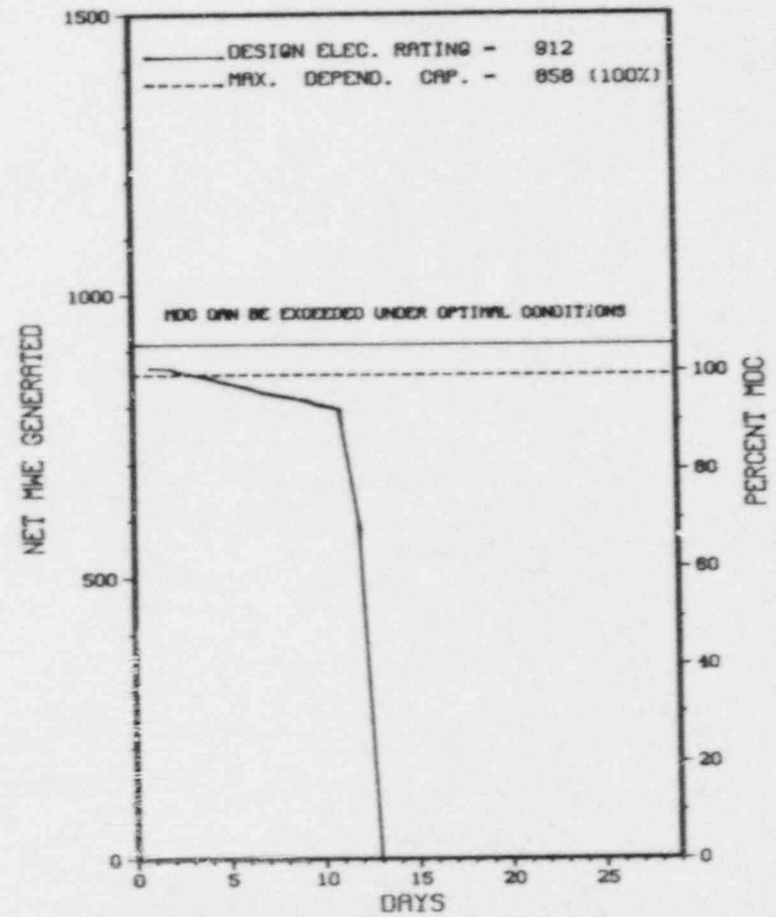
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>69,528.0</u>
13. Hours Reactor Critical	<u>283.6</u>	<u>1,027.6</u>	<u>50,795.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,430.1</u>
15. Hrs Generator On-Line	<u>283.5</u>	<u>1,027.5</u>	<u>49,420.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>75.0</u>
17. Gross Therm Ener (MWH)	<u>732,398</u>	<u>2,816,266</u>	<u>127,673,823</u>
18. Gross Elec Ener (MWH)	<u>240,190</u>	<u>939,120</u>	<u>41,938,531</u>
19. Net Elec Ener (MWH)	<u>232,963</u>	<u>895,793</u>	<u>39,915,290</u>
20. Unit Service Factor	<u>40.7</u>	<u>71.4</u>	<u>71.1</u>
21. Unit Avail Factor	<u>40.7</u>	<u>71.4</u>	<u>71.2</u>
22. Unit Cap Factor (MDC Net)	<u>39.0</u>	<u>72.3</u>	<u>66.9</u>
23. Unit Cap Factor (DER Net)	<u>36.7</u>	<u>68.2</u>	<u>62.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>8,336.0</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: 04/29/88

\*\*\*\*\*  
 \*                      ARKANSAS 2                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
 ARKANSAS 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* ARKANSAS 2 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/12/88	S	412.5	C	1		XX	ZZZZZ	UNIT SHUTDOWN FOR REFUELING AND MAINTENANCE.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
ARKANSAS 2 SHUTDOWN IN FEBRUARY FOR SCHEDULED REFUELING AND MAINTENANCE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Pestriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* ARKANSAS 2 \*  
\*\*\*\*\*

Report Period FEB 1988

FACILITY DATA

FACILITY DESCRIPTION

LOCATION  
STATE.....ARKANSAS  
COUNTY.....POPE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...6 MI WNW OF  
RUSSELLVILLE, AR  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...DECEMBER 5, 1978  
DATE ELEC ENER 1ST GENER...DECEMBER 26, 1978  
DATE COMMERCIAL OPERATE...MARCH 26, 1980  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...DARDANELLE RESERVOIR  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....ARKANSAS POWER & LIGHT  
CORPORATE ADDRESS.....NINTH & LOUISIANA STREETS  
LITTLE ROCK, ARKANSAS 72203  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV  
IE RESIDENT INSPECTOR.....W. JOHNSON  
LICENSING PROJ MANAGER.....C. HARBUCK  
DOCKET NUMBER.....50-368  
LICENSE & DATE ISSUANCE...NPF-6, SEPTEMBER 1, 1978  
PUBLIC DOCUMENT ROOM.....ARKANSAS TECH UNIVERSITY  
RUSSELLVILLE, ARKANSAS 72801

I N S P E C T I O N    S T A T U S

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:



1. Docket: 50-334 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: P. A. SMITH (412) 643-1825

4. Licensed Thermal Power (MWT): 2652

5. Nameplate Rating (Gross MWe): 1026 X 0.9 = 923

6. Design Electrical Rating (Net MWe): 835

7. Maximum Dependable Capacity (Gross MWe): 860

8. Maximum Dependable Capacity (Net MWe): 810

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

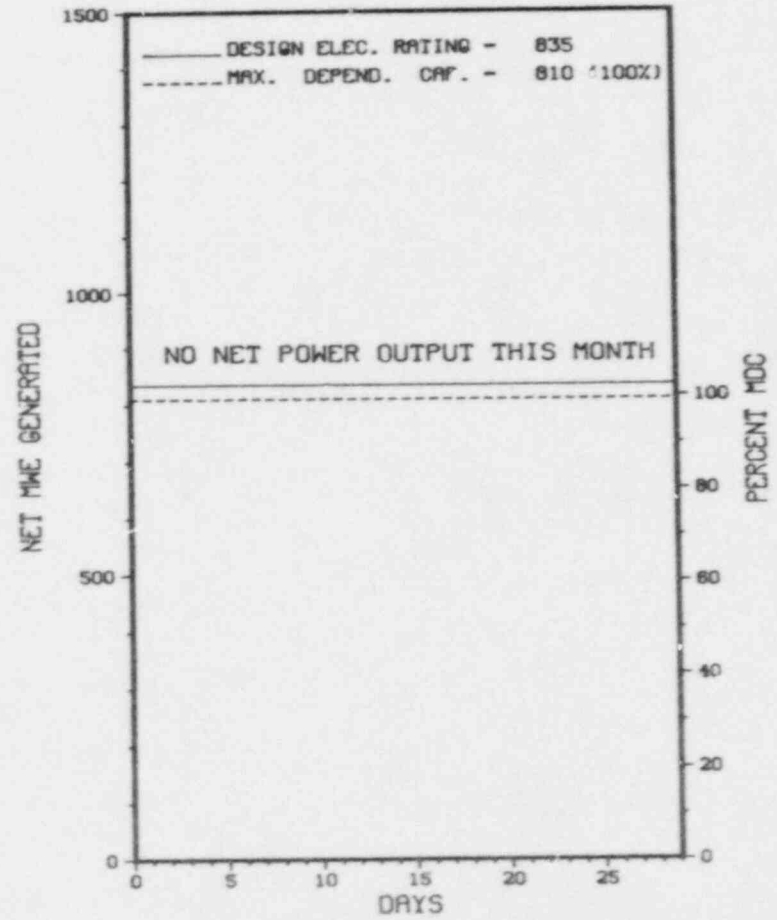
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>103,728.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>59,188.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>4,482.7</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>57,654.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2.2</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>0</u>	<u>136,917,310</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>43,865,760</u>
19. Net Elec Ener (MWH)	<u>-7,720</u>	<u>-10,920</u>	<u>40,924,683</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>57.9</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>57.9</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>51.9</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>50.4</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>19.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>19,041.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: 03/02/88

\*\*\*\*\*  
X BEAVER VALLEY 1 X  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
BEAVER VALLEY 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* BEAVER VALLEY 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
2	12/11/87	S	696.0	C	4		ZZ ZZZZZZ	THE UNIT REMAINED SHUTDOWN THE ENTIRE MONTH OF THE UNIT'S SIXTH REFUELING OUTAGE.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
BEAVER VALLEY 1 REMAINED SHUTDOWN IN FEBRUARY FOR SCHEDULED REFUELING OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* BEAVER VALLEY 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....PENNSYLVANIA  
COUNTY.....BEAVER  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...SHIPPINGPORT, PENNSYLVANIA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 10, 1976  
DATE ELEC ENER 1ST GENER...JUNE 14, 1976  
DATE COMMERCIAL OPERATE...OCTOBER 1, 1976  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...OHIO RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUQUESNE LIGHT  
CORPORATE ADDRESS.....ONE OXFORD CENTRE, 301 GRANT STREET  
PITTSBURGH, PENNSYLVANIA 15279  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....J. BEALL  
LICENSING PROJ MANAGER.....P. TAM  
DOCKET NUMBER.....50-334  
LICENSE & DATE ISSUANCE...DPR-66, JULY 2, 1976  
PUBLIC DOCUMENT ROOM.....B.F. JONES MEMORIAL LIBRARY  
633 FRANKLIN AVENUE  
ALIQUPPA, PA 15001

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S - (CONTINUED)

\*\*\*\*\*  
\*           BEAVER VALLEY 1           \*  
\*\*\*\*\*

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
-----			
NO INPUT PROVIDED.			

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1. Docket: 50-412 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: P. A. SMITH (412) 643-1825

4. Licensed Thermal Power (MWT): 2652

5. Nameplate Rating (Gross MWe): 923

6. Design Electrical Rating (Net MWe): 836

7. Maximum Dependable Capacity (Gross MWe): 885

8. Maximum Dependable Capacity (Net MWe): 833

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe):

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>2,511.0</u>
13. Hours Reactor Critical	<u>414.6</u>	<u>1,040.5</u>	<u>2,006.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>401.8</u>	<u>1,027.7</u>	<u>1,977.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>948,305</u>	<u>2,595,823</u>	<u>4,981,460</u>
18. Gross Elec Ener (MWH)	<u>307,600</u>	<u>843,400</u>	<u>1,625,600</u>
19. Net Elec Ener (MWH)	<u>285,646</u>	<u>792,196</u>	<u>1,530,300</u>
20. Unit Service Factor	<u>57.7</u>	<u>71.4</u>	<u>57.9</u>
21. Unit Avail Factor	<u>57.7</u>	<u>71.4</u>	<u>57.9</u>
22. Unit Cap Factor (MDC Net)	<u>49.3</u>	<u>66.0</u>	<u>51.9</u>
23. Unit Cap Factor (DER Net)	<u>49.1</u>	<u>65.8</u>	<u>50.4</u>
24. Unit Forced Outage Rate	<u>14.0</u>	<u>6.0</u>	<u>19.7</u>
25. Forced Outage Hours	<u>65.2</u>	<u>65.3</u>	<u>186.5</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

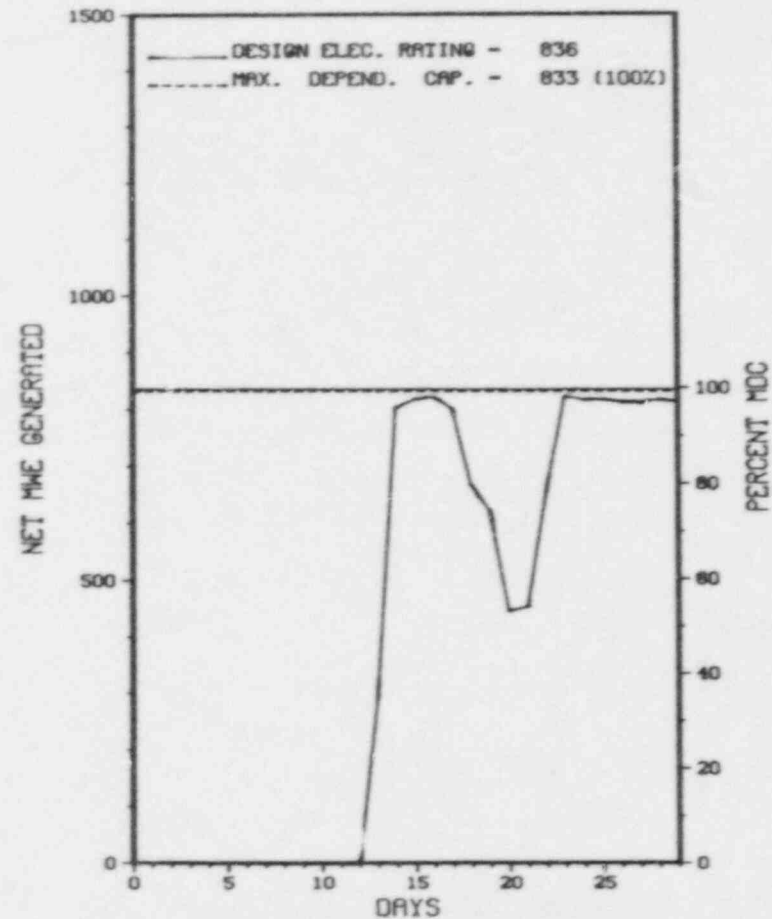
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X BEAVER VALLEY 2 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BEAVER VALLEY 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 \* BEAVER VALLEY 2 \*  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3	01/27/88	S	229.0	B	4		CA	VESSEL	PERFORM MAINTENANCE ON A LEAKING PRESSURIZER MANWAY.
4	02/10/88	F	65.2	A	1		CA	VALVEX	THE REACTOR WAS SHUTDOWN TO REPAIR PRESSURIZER PORV ISOLATION VALVE (RCS-MOV537).
5	02/17/88	F	0.0	B	5		HC	ZZZZZZ	REDUCED OUTPUT TO 75% TO PERMIT LEAK TESTING THE 'D' WATERBOX OF THE UNIT'S MAIN CONDENSER.
6	02/19/88	F	0.0	B	5		HC	ZZZZZZ	REDUCED OUTPUT TO 85% TO PERMIT LEAK TESTING OF THE 'D' WATERBOX OF THE UNIT'S MAIN CONDENSER.
7	02/19/88	F	0.0	B	5		CH	PUMPXX	POWER WAS REDUCED FROM 85% TO 60% TO PERMIT THE 'B' MAIN FEED PUMP'S REMOVAL FROM SERVICE FOR MAINTENANCE.

XXXXXXXXXXXX BEAVER VALLEY 2 INCURRED 2 OUTAGES AND 3 POWER REDUCTIONS  
 \* SUMMARY \* IN FEBRUARY AS DISCUSSED ABOVE.  
 XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	F-Admin	3-Auto Scram	Preparation of
	G-Oper Error	4-Continued	Data Entry Sheet
	C-Refueling	5-Reduced Load	Licensee Event Report
	H-Other	9-Other	(LER) File (NUREG-0161)
	D-Regulatory Restriction		
	E-Operator Training & license Examination		

\*\*\*\*\*  
\* BEAVER VALLEY 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....PENNSYLVANIA  
  
COUNTY.....BEAVER  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...SHIPPINGPORT, PENNSYLVANIA  
  
TYPE OF REACTOR.....PWR  
  
DATE INITIAL CRITICALITY...AUGUST 4, 1987  
  
DATE ELEC ENER 1ST GENER...AUGUST 17, 1987  
  
DATE COMMERCIAL OPERATE...NOVEMBER 17, 1987  
  
CONDENSER COOLING METHOD...HNDCT  
  
CONDENSER COOLING WATER...OHIO RIVER  
  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUQUESNE LIGHT  
  
CORPORATE ADDRESS.....435 SIXTH AVENUE  
PITTSBURGH, PENNSYLVANIA 15219  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
  
CONSTRUCTOR.....STONE & WEBSTER  
  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
  
IE RESIDENT INSPECTOR.....J. BEALL  
  
LICENSING PROJ MANAGER....P. TAM  
DOCKET NU 3ER.....50-412  
  
LICENSE & DATE ISSUANCE...NPF-73, AUGUST 14, 1987  
  
PUBLIC DOCUMENT ROOM.....B.F. JONES MEMORIAL LIBRARY  
633 FRANKLIN AVENUE  
ALIQUPPA, PA 15001

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INFO. NOT SUPPLIED BY REGION

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INFO. NOT SUPPLIED BY REGION

FACILITY ITEMS (PLANS AND PROCEDURES):

INFO. NOT SUPPLIED BY REGION

MANAGERIAL ITEMS:

INFO. NOT SUPPLIED BY REGION

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*           BEAVER VALLEY 2           \*  
\*\*\*\*\*

PLANT STATUS:

INFO. NOT SUPPLIED BY REGION

LAST IE SITE INSPECTION DATE: INFO. NOT SUPPLIED BY REGION

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
--------	------------------	-------------------	---------

-----  
INFO. NOT SUPPLIED BY REGION  
=====

1. Dock#: 59-155 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. R. JOHNSTON (616) 547-6537

4. Licensed Thermal Power (MWh): 240

5. Nameplate Rating (Gross MWe): 70.6 X 0.85 = 60

6. Design Electrical Rating (Net MWe): 72

7. Maximum Dependable Capacity (Gross MWe): 73

8. Maximum Dependable Capacity (Net MWe): 69

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>218,491.0</u>
13. Hours Reactor Critical	<u>532.1</u>	<u>1,253.0</u>	<u>157,086.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>492.0</u>	<u>1,209.8</u>	<u>154,344.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>95,043</u>	<u>230,112</u>	<u>29,163,635</u>
18. Gross Elec Ener (MWH)	<u>30,730</u>	<u>74,559</u>	<u>9,246,393</u>
19. Net Elec Ener (MWH)	<u>29,028</u>	<u>70,461</u>	<u>8,743,703</u>
20. Unit Service Factor	<u>70.7</u>	<u>84.0</u>	<u>70.6</u>
21. Unit Avail Factor	<u>70.7</u>	<u>84.0</u>	<u>70.6</u>
22. Unit Cap Factor (MDC Net)	<u>60.4</u>	<u>70.9</u>	<u>59.4*</u>
23. Unit Cap Factor (DER Net)	<u>57.9</u>	<u>68.0</u>	<u>55.6</u>
24. Unit Forced Outage Rate	<u>21.8</u>	<u>11.9</u>	<u>13.6</u>
25. Forced Outage Hours	<u>137.1</u>	<u>163.3</u>	<u>12,270.0</u>

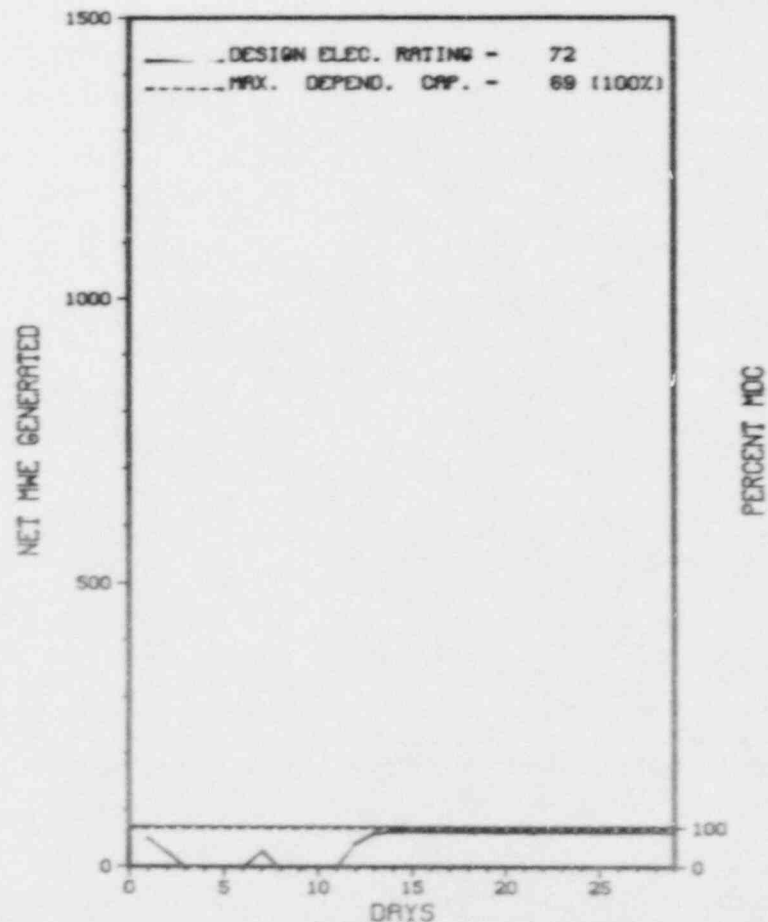
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
04/08/88

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* BIG ROCK POINT 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BIG ROCK POINT 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* BIG ROCK POINT 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-03	01/22/88	F	0.0	A	5				THE UNIT OPERATED AT REDUCED POWER DUE TO #1 REACTOR RECIRC PUMP SEAL PROBLEM.
88-04	02/02/88	S	66.9	A	1	88-01			WHILE REMOVING THE UNIT FROM SERVICE TO MAKE REPAIRS TO THE #1 REACTOR RECIRC PUMP SEAL, A REACTOR TRIP OCCURRED WHEN A TRAINEE OPERATOR INADVERTANTLY DOWNSCALED #1 CHANNEL RANGE SWITCH ONE RANGE TOO FAR. REACTOR POWER WAS ABOUT 25XE-05 AND ALL CONTROL RODS NOT AT "00" WERE INSERTED TO NOTCH "00" AT THAT TIME. REPAIRS WERE COMPLETED.
88-05	02/05/88	F	43.7	G	2	88-02			WHILE ATTEMPTING TO SYNCHRONIZE THE UNIT WITH THE GRID, THE TURBINE GENERATOR 116 OCB AND THE 199 OCB OPENED, THUS CAUSING A TEMPORARY LOSS OF STATION POWER. THE REACTOR WAS MANUALLY SCRAMMED PER PROCEDURE DUE TO THE LOSS OF BOTH RECIRC PUMPS. THE PROBLEM WITH SYNCHRONIZING THE UNIT IS THOUGHT TO HAVE BEEN CAUSED BY BREAKER CLOSURE SLIGHTLY OUT OF PHASE, RESULTING IN ACTUATION OF MAIN TRANSFORMER DIFFERENTIAL OVER CURRENT RELAY. THE UNIT WAS RETURNED TO SERVICE AFTER SUBSEQUENT INVESTIGATION AND REPAIRS.
88-06	02/08/88	F	93.4	A	1	88-03			THE UNIT WAS REMOVED FROM SERVICE DUE TO HIGHER THAN NORMAL UNIDENTIFIED LEAK RATE. THE SOURCE OF THE LEAKAGE WAS THE #2 REACTOR RECIRC PUMP COOLING WATER HEAT EXCHANGER WHICH HAD A PIN HOLE LEAK. AFTER REPAIRS WERE MADE THE UNIT WAS RETURNED TO SERVICE.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 BIG ROCK POINT INCURRED 1 POWER REDUCTION AND 3 OUTAGES IN FEBRUARY AS DISCUSSED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* BIG ROCK POINT 1 \*  
\*\*\*\*\*

F A C I L I T Y   D A T A

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MICHIGAN  
  
COUNTY.....CHARLEVOIX  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...4 MI NE OF  
CHARLEVOIX, MICH  
  
TYPE OF REACTOR.....BWR  
  
DATE INITIAL CRITICALITY...SEPTEMBER 27, 1962  
  
DATE ELEC ENER 1ST GENER...DECEMBER 8, 1962  
  
DATE COMMERCIAL OPERATE...MARCH 29, 1963  
  
CONDENSER COOLING METHOD...ONCE THRU  
  
CONDENSER COOLING WATER...LAKE MICHIGAN  
  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CONSUMERS POWER  
  
CORPORATE ADDRESS.....212 WEST MICHIGAN AVENUE  
JACKSON, MICHIGAN 49201  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
  
CONSTRUCTOR.....BECHTEL  
  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
  
IE RESIDENT INSPECTOR.....S. GUTHRIE  
  
LICENSING PROJ MANAGER.....W. SCOTT  
DOCKET NUMBER.....50-155  
  
LICENSE & DATE ISSUANCE...DPR-6, AUGUST 30, 1962  
  
PUBLIC DOCUMENT ROOM.....NORTH CENTRAL MICHIGAN COLLEGE  
1515 HOWARD STREET  
PETOSKEY, MICHIGAN 49770

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 1-5 (88004): ROUTINE, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM INCLUDING MAINTENANCE OUTAGE ACTIVITIES. AREAS INSPECTED INCLUDED: ORGANIZATION AND MANAGEMENT CONTROLS (IP 83722); TRAINING AND QUALIFICATIONS (IP 83723, 83729); OUTAGE PLANNING AND PREPARATION (IP 83729); EXTERNAL AND INTERNAL EXPOSURE CONTROLS AND PERSONAL DOSIMETRY (IP 83724, 83725); FACILITIES AND EQUIPMENT (IP 83727, 83729); CONTAMINATION CONTROL (IP 83726, 83729); THE ALARA PROGRAM (IP 83728, 83729); RADIATION WORK PERMIT PROGRAM (IP 83724); TRANSPORTATION ACTIVITIES (IP 86721) AND AUDITS AND APPRAISALS (IP 83722, 83729). ALSO REVIEWED WERE PAST OPEN ITEMS (IP 92701), AN ALLEGATION CONCERNING THE RADIATION PROTECTION PROGRAM, AND SPENT FUEL POOL LINER LEAKAGE ISSUES (IP 92705). THE LICENSEE'S RADIATION PROTECTION PROGRAM CONTINUES TO BE EFFECTIVE IN PROTECTING THE HEALTH AND SAFETY OF OCCUPATIONAL WORKERS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. ONE UNRESOLVED ITEM WAS IDENTIFIED PERTAINING TO THE ABSORBER THICKNESS USED WITH PERSONAL DOSIMETRY

ENFORCEMENT SUMMARY

None

OTHER ITEMS

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X                   BIG ROCK POINT 1                   X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING ROUTINELY.

LAST IE SITE INSPECTION DATE: 02/16/88

INSPECTION REPORT NO: 88002

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	020288	022388	UPSCALE/DOWNSCALE REACTOR TRIP - PERSONNEL ERROR
88-02	020588	030788	MANUAL REACTOR TRIP - LOSS OF RECIRCULATION FLOW

=====



1. Docket: SC-456 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: B. M. PEACOCK (815) 458-2801 EXT. 2480  
 4. Licensed Thermal Power (MWh): 3411  
 5. Nameplate Rating (Gross MWe): \_\_\_\_\_  
 6. Design Electrical Rating (Net MWe): 1120  
 7. Maximum Dependable Capacity (Gross MWe): 1175  
 8. Maximum Dependable Capacity (Net MWe): 1120  
 9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>5,593.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>14.5</u>	<u>3,074.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>14.5</u>	<u>2,625.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>47,283</u>	<u>5,062,955</u>
18. Gross Elec Ener (MWh)	<u>0</u>	<u>17,056</u>	<u>1,621,660</u>
19. Net Elec Ener (MWh)	<u>0</u>	<u>16,111</u>	<u>1,472,762</u>
20. Unit Service Factor			
21. Unit Avail Factor		NOT IN	
22. Unit Cap Factor (MDL Net)		COMMERCIAL	
23. Unit Cap Factor (DER Net)		OPERATION	
24. Unit Forced Outage Rate			
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>872.2</u>

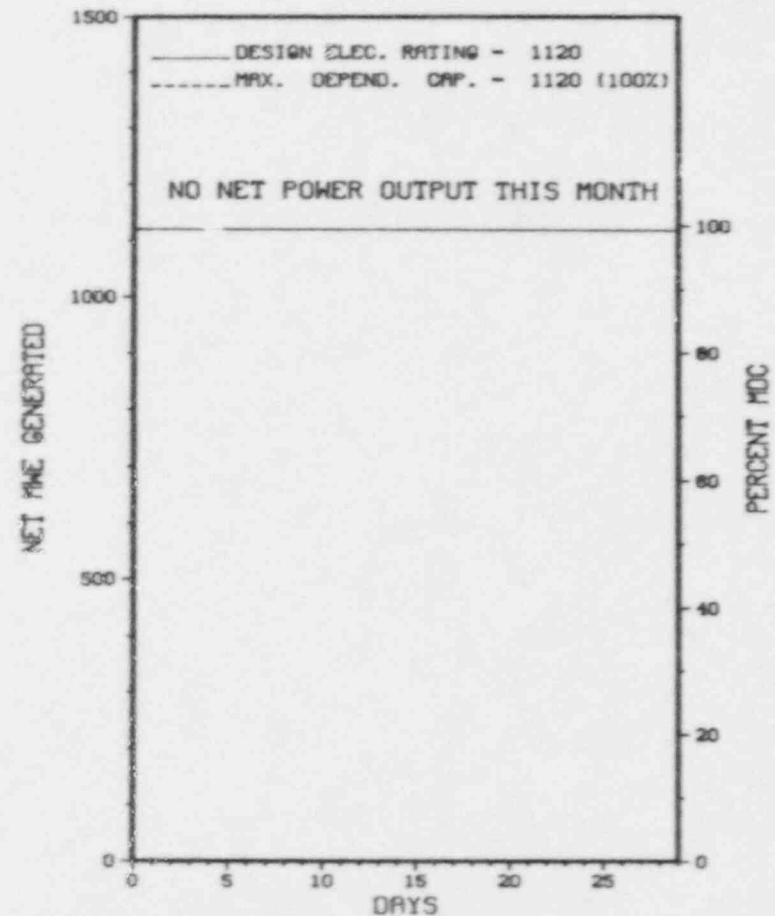
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* BRAIDWOOD 1 \*  
 \*\*\*\*\*  
 AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRAIDWOOD 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* BRAIDWOOD 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	01/01/88	S	696.0	H	4			CONTINUANCE OF 6 WEEK SURVEILLANCE OUTAGE. SUBSEQUENT RCS LEAKAGE CAUSED THE UNIT TO REMAIN DOWN. REACTOR COOLANT PUMP SEALS WERE REPLACED.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 BRAIDWOOD 1 CONTINUED 6 WEEK SCHEDULED SURVEILLANCE OUTAGE. A RCS LEAKAGE CAUSED THE UNIT TO REMAIN SHUTDOWN THE REMAINDER OF THE MONTH.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* BRAIDWOOD 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
  
COUNTY.....WILL  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...24 MI SSW OF  
JOLIET, ILL  
  
TYPE OF REACTOR.....PWR  
  
DATE INITIAL CRITICALITY...MAY 29, 1987  
DATE ELEC ENER 1ST GENER...JULY 12, 1987  
DATE COMMERCIAL OPERATE...\*\*\*\*\*  
  
CONDENSER COOLING METHOD...CC ART  
CONDENSER COOLING WATER...KANKAKEE RIVER  
  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM\*SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....COMMONWEALTH EDISON  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....I. MCGREGOR  
LICENSING PROJ MANAGER.....S. SANDS  
DOCKET NUMBER.....50-456  
LICENSE & DATE ISSUANCE...NPF-72, JULY 2, 1987  
PUBLIC DOCUMENT ROOM.....HEAD LIBRARIAN  
GOVERNMENT DOCUMENTS COLLECTION  
WILMINGTON PUBLIC LIBRARY  
201 SOUTH KANKAKEE STREET  
WILMINGTON, ILLINOIS, 60481

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON DECEMBER 10-22 (87045; 87046): ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE'S QA PROGRAM IMPLEMENTATION IN PREPARATION FOR OPERATION OF UNIT 2 IN THE SPECIFIC AREAS OF PREOPERATIONAL TESTING QA, QA PROGRAM ADMINISTRATION, DOCUMENT CONTROL, AND MAINTENANCE. THIS INSPECTION WAS CONDUCTED UTILIZING PORTIONS OF INSPECTION PROCEDURES 35301, 35740, 35742, AND 35743. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FROM DECEMBER 2-31 (87044; 87045): ROUTINE, UNANNOUNCED SAFETY INSPECTION OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED ITEMS; LICENSEE EVENT REPORT (LER) REVIEW; UNIT 2 OPERATING LICENSE ISSUANCE; UNIT 2 FUEL LOAD AND CORE SEQUENCE; CARBON DIOXIDE SUPPRESSION SYSTEMS; OPERATING PROCEDURES; EMERGENCY PROCEDURES; TITLE 10 REQUIREMENTS; SAFETY EVALUATION REPORT REVIEW AND FOLLOWUP; SUMP SCREEN EVALUATION; OPERATION SAFETY VERIFICATION; RADIOLOGICAL PROTECTION; ENGINEERED SAFETY FEATURE (ESF) SYSTEMS; PHYSICAL SECURITY; MONTHLY MAINTENANCE OBSERVATION AND MODIFICATION INSTALLATIONS; MONTHLY SURVEILLANCE OBSERVATION; UNIT 2 PLANT TOURS; TRAINING EFFECTIVENESS; REPORT REVIEW; AND PLANT STATUS MEETING. OF THE TWENTY AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED IN EIGHTEEN. IN THE REMAINING AREAS, TWO VIOLATIONS WERE IDENTIFIED REGARDING FAILURE TO PERFORM REQUIRED PREVENTIVE MAINTENANCE (PARAGRAPH 2.B) AND FAILURE TO PROVIDE INSTRUCTIONS APPROPRIATE TO CIRCUMSTANCES FOR PLANT EMERGENCY OPERATIONS (PARAGRAPH 9).

INSPECTION FROM JANUARY 14-21 (88004): ROUTINE SAFETY INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS (92701), OF PREOPERATIONAL TEST PROCEDURES (70370), AND OF TRAINING AND QUALIFICATION (41400). OF THE AREAS INSPECTED, NO VIOLATIONS OR

Report Period FEB 1988

I N S P E C T I O N   S T A T U S - (CONTINUED)

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\*                   BRAIDWOOD 1                   \*  
\*\*\*\*\*

INSPECTION SUMMARY

DEVIATIONS WERE IDENTIFIED.

INSPECTION FROM JANUARY 1 THROUGH FEBRUARY 13 (88003): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS OF TECHNICAL SPECIFICATION REVIEW; OPERATIONAL SAFETY VERIFICATION; RADIOLOGICAL PROTECTION; ENGINEERED SAFETY FEATURE SYSTEMS; PHYSICAL SECURITY; MONTHLY MAINTENANCE OBSERVATION AND MODIFICATION INSTALLATIONS; SURVEILLANCE TEST SHIFT BRIEFING; MONTHLY SURVEILLANCE OBSERVATION; TRAINING EFFECTIVENESS; REPORT REVIEW; AND MEETINGS AND OTHER ACTIVITIES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

DEFERRED COMPONENT PROBLEMS:

DEFERRED SYSTEMS (PLANS AND PROCEDURES):

NONE

PLANT STATUS

BRAIDWOOD 1 OPERATING IN THE STARTUP TEST PROGRAM UP TO 100% RATED POWER

LAST TIME THE INSPECTION DATE: 02/25/88

INSPECTION REPORT NO: 88006

R E P O R T S   F R O M   L I C E N S E E

NO	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-02	012588	021788	REACTOR TRIP AND SAFETY INJECTION DUE TO COGNITIVE PERSONNEL ERROR
88-05	020488	022388	1A DIESEL GENERATOR START ON A SAFETY INJECTION SIGNAL INSTEAD OF AN UNDERVOLTAGE SIGNAL DURING TESTING DUE TO OPERATOR MISCOMMUNICATION

1. Docket: 50-259                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: J. D. CRAWFORD (205) 729-2507

4. Licensed Thermal Power (Mwt):                      3293

5. Nameplate Rating (Gross MWe):                      1280 X 0.9 = 1152

6. Design Electrical Rating (Net MWe):                      1065

7. Maximum Dependable Capacity (Gross MWe):                      1098

8. Maximum Dependable Capacity (Net MWe):                      1065

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>119,066.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>59,520.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>6,996.8</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>58,276.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>167,963,338</u>
18. Gross Elec Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>55,398,130</u>
19. Net Elec Ener (MWH)	<u>-2,003</u>	<u>-2,831</u>	<u>53,665,086</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>48.9</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>48.9</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>42.3</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>42.3</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>42.0</u>
25. Forced Outage Hours	<u>696.0</u>	<u>1,440.0</u>	<u>42,138.1</u>

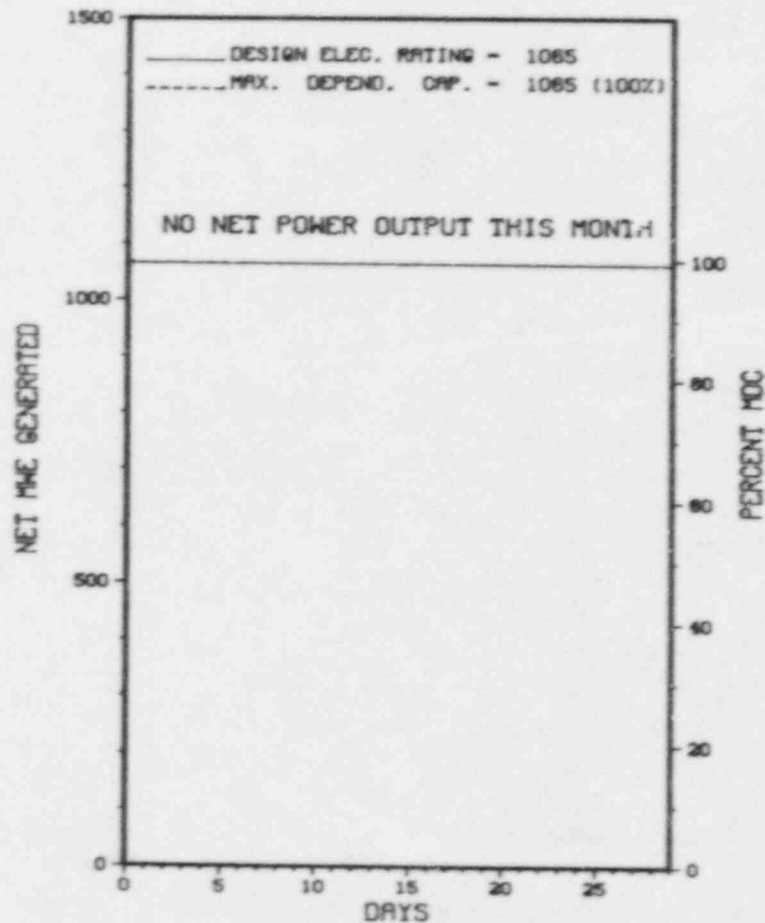
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XX  
X                      BROWNS FERRY 1                      X  
XX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* BROWNS FERRY 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
315	06/01/85	F	696.0	F	4			ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
BROWN'S FERRY 1 REMAINED ON ADMINISTRATIVE HOLD IN FEBRUARY  
IN ORDER TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



ENFORCEMENT SUMMARY

IDENTIFIED CONDITIONS ADVERSE TO QUALITY IN THAT AFTER SEVERAL NOTIFICATIONS OF ADVERSE TRENDS IN THE DIVISION OF NUCLEAR ENGINEERING CORRECTIVE ACTION PROGRAM PERFORMANCE, NO EFFECTIVE CORRECTIVE ACTIONS WERE INSTIGATED. CONTRARY TO 10 CFR 50 APPENDIX B CRITERION XVI, THE LICENSEE FAILED TO CORRECT IDENTIFIED CONDITIONS ADVERSE TO QUALITY IN THAT AFTER SEVERAL NOTIFICATIONS OF ADVERSE TRENDS IN THE DIVISION OF NUCLEAR ENGINEERING CORRECTIVE ACTION PROGRAM PERFORMANCE, NO EFFECTIVE CORRECTIVE ACTIONS WERE INSTIGATED. CONTRARY TO TS 3.6.3 AND 3.6.1.1, THE LICENSEE FAILED, ON TWO OCCASIONS, TO ISOLATE THE AFFECTED PENETRATION LINE WITHIN 8 HOURS, IN THAT PENETRATION LINES ASSOCIATED WITH INOPERABLE CONTAINMENT ISOLATION VALVES WERE SECURED WITH VALVES THAT WERE NOT DEACTIVATED. VALVES 1-CAC-V50 AND 1-B32-F020 WERE RED-TAGGED CLOSED BEFORE DECEMBER 8, 1987. THE VALVE SWITCHES WERE STILL CAPABLE OF OPERATING THE VALVES. ALSO, CONTAINMENT INTEGRITY WAS INADEQUATELY MAINTAINED IN THAT A PENETRATION WAS CLOSED BY AN AUTOMATIC VALVE 2-RXS-SV-4189, WITHOUT BEING PROPERLY DEACTIVATED PRIOR TO DECEMBER 23, 1987. THE VALVE WAS CLOSED AND RED-TAGGED WITH THE SWITCH STILL CAPABLE OF OPERATING THE VALVE. CONTRARY TO TS 3.6.3 AND 3.6.1.1, THE LICENSEE FAILED, ON TWO OCCASIONS, TO ISOLATE THE AFFECTED PENETRATION LINE WITHIN 8 HOURS, IN THAT PENETRATION LINES ASSOCIATED WITH INOPERABLE CONTAINMENT ISOLATION VALVES WERE SECURED WITH VALVES THAT WERE NOT DEACTIVATED. VALVES 1-CAC-V50 AND 1-B32-F020 WERE RED-TAGGED CLOSED BEFORE DECEMBER 8, 1987. THE VALVE SWITCHES WERE STILL CAPABLE OF OPERATING THE VALVES. ALSO, CONTAINMENT INTEGRITY WAS INADEQUATELY MAINTAINED IN THAT A PENETRATION WAS CLOSED BY AN AUTOMATIC VALVE 2-RXS-SV-4189, WITHOUT BEING PROPERLY DEACTIVATED PRIOR TO DECEMBER 23, 1987. THE VALVE WAS CLOSED AND RED-TAGGED WITH THE SWITCH STILL CAPABLE OF OPERATING THE VALVE.  
(8704 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ENVIRONMENTAL QUALIFICATION WORK.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

TVA APPOINTED MR. JOHN WALKER TO PLANT MANAGER POSITION.

PLANT STATUS:

SHUTDOWN FOR REPAIRS ON 03/19.

LAST IE SITE INSPECTION DATE: JANUARY 25-29, 1988 +

INSPECTION REPORT NO: 50-259/88-03 +



Report Period FEB 1988

R E P O R T S F R O M L I C E N S E E

\*\*\*\*\*  
\* BROWNS FERRY 1 \*  
\*\*\*\*\*

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/17/88	02/12/88	UNPLANNED REACTOR WATER CLEANUP ISOLATION DUE TO LOOSE CONNECTION
88-002	01/06/88	02/05/88	ENGINEERED SAFETY FEATURE ACTUATION DUE TO PERSONNEL ERROR DURING SWITCH CALIBRATION
88-003	01/12/88	02/05/88	INADEQUATE PROCEDURE CAUSES INADVERTENT START OF EMERGENCY EQUIPMENT COOLING WATER PUMPS

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1. Docket: 50-260                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: J. D. CRAWFORD (205) 729-2507

4. Licensed Thermal Power (MWh):                      3293

5. Nameplate Rating (Gross MWe):                      1280 X 0.9 = 1152

6. Design Electrical Rating (Net MWe):                      1065

7. Maximum Dependable Capacity (Gross MWe):                      1098

8. Maximum Dependable Capacity (Net MWe):                      1065

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):                     

11. Reasons for Restrictions, If Any:                       
NONE

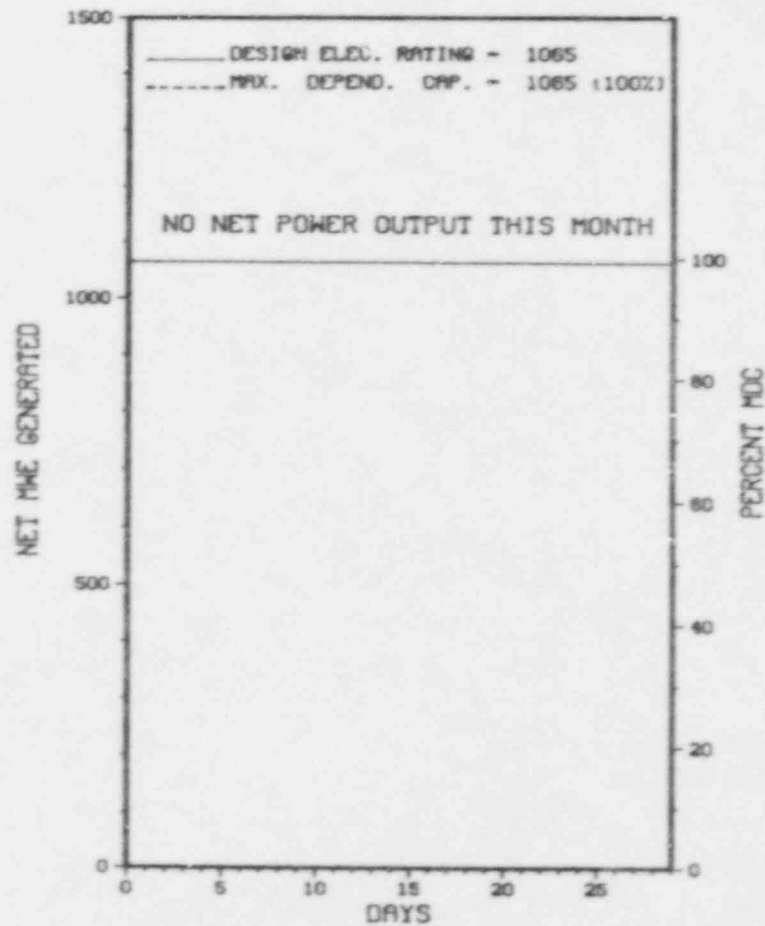
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>113,977.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>55,859.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>14,200.4</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>54,338.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWh)	<u>0</u>	<u>0</u>	<u>153,245,167</u>
18. Gross Elec Ener (MWh)	<u>0</u>	<u>0</u>	<u>50,771,798</u>
19. Net Elec Ener (MWh)	<u>-1,973</u>	<u>-3,959</u>	<u>49,179,874</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>47.7</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>47.7</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>40.5</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>40.5</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>41.2</u>
25. Forced Outage Hours	<u>696.0</u>	<u>1,440.0</u>	<u>58,193.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                      BROWNS FERRY 2                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
BROWNS FERRY 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* BROWNS FERRY 2 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
305	09/15/84	F	696.0	F	4				ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

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\* SUMMARY \*  
\*\*\*\*\*  
BROWN'S FERRY 2 REMAINED ON ADMINISTRATIVE HOLD IN FEBRUARY  
IN ORDER TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* BROWNS FERRY 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ALABAMA  
COUNTY.....LIMESTONE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...10 MI NW OF  
DECATUR, ALA  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JULY 20, 1974  
DATE ELEC ENER 1ST GENER...AUGUST 28, 1974  
DATE COMMERCIAL OPERATE...MARCH 1, 1975  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...TENNESSEE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....TENNESSEE VALLEY AUTHORITY  
CORPORATE ADDRESS..... 500A CHESTNUT STREET TOWER II  
CHATTANOOGA, TENNESSEE 37401  
CONTRACTOR  
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....J. PAULK  
LICENSING PROJ MANAGER.....J. GEARS  
DOCKET NUMBER.....50-260  
LICENSE & DATE ISSUANCE...DPR-52, AUGUST 2, 1974  
PUBLIC DOCUMENT ROOM.....ATHENS PUBLIC LIBRARY  
SOUTH AND FORREST  
ATHENS, ALABAMA 35611

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 1-31 (87-46): THIS ROUTINE INSPECTION WAS IN THE AREAS OF PREVIOUS ENFORCEMENT MATTERS, MULTI-PLANT ACTION ITEM, "WAR ROOM" MEETING, OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, INFORMATION NOTICE REVIEW, SURVEILLANCE OBSERVATION, REPORTABLE OCCURRENCES, COLD WEATHER PREPARATIONS, RESTART TESTING, AND EMERGENCY PROCEDURES. A VIOLATION OF TECHNICAL SPECIFICATION 4.7.B.2 A INVOLVED FAILURE TO PROPERLY TEST THE STANDBY GAS TREATMENT SYSTEM FOLLOWING THE FIRE IN THE UNIT 2 DRYWELL ON NOVEMBER 2, 1987.

INSPECTION JANUARY 25-29 (88-03): THIS ROUTINE, UNANNOUNCED INSPECTION EXAMINED THE FOLLOWING AREAS: SECURITY PLAN AND IMPLEMENTING PROCEDURES; RECORDS AND REPORTS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; LIGHTING; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL AND PACKAGES; AND ALARM STATIONS. ADDITIONALLY, AS PART OF THIS INSPECTION, THE INSPECTOR REVIEWED THE LICENSEE'S RESPONSIVE ACTION TO THE NRC'S REGULATORY EFFECTIVENESS REVIEW. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

TVA APPOINTED MR. JOHN WALKER TO PLANT MANAGER POSITION.

PLANT STATUS:

SHUTDOWN ON SEPTEMBER 15, 1984 FOR REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: JANUARY 25-29, 1988 +

INSPECTION REPORT NO: 50-260/88-03 +

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE.

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1. Docket: 50-296 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. D. CRAWFORD (205) 729-2507

4. Licensed Thermal Power (MWT): 3295

5. Nameplate Rating (Gross MWe): 1280 X 0.9 = 1152

6. Design Electrical Rating (Net MWe): 1065

7. Maximum Dependable Capacity (Gross MWe): 3

8. Maximum Dependable Capacity (Net MWe): 1

9. If Changes Occur Above Since Last Report, Give Reasons

NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>96,432.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>45,306.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,149.4</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>44,195.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>0</u>	<u>131,846,076</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>43,473,760</u>
19. Net Elec Ener (MWH)	<u>-2,570</u>	<u>-7,228</u>	<u>42,034,840</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>45.8</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>45.8</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>40.9</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>40.9</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>42.1</u>
25. Forced Outage Hours	<u>696.0</u>	<u>1,440.0</u>	<u>32,177.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

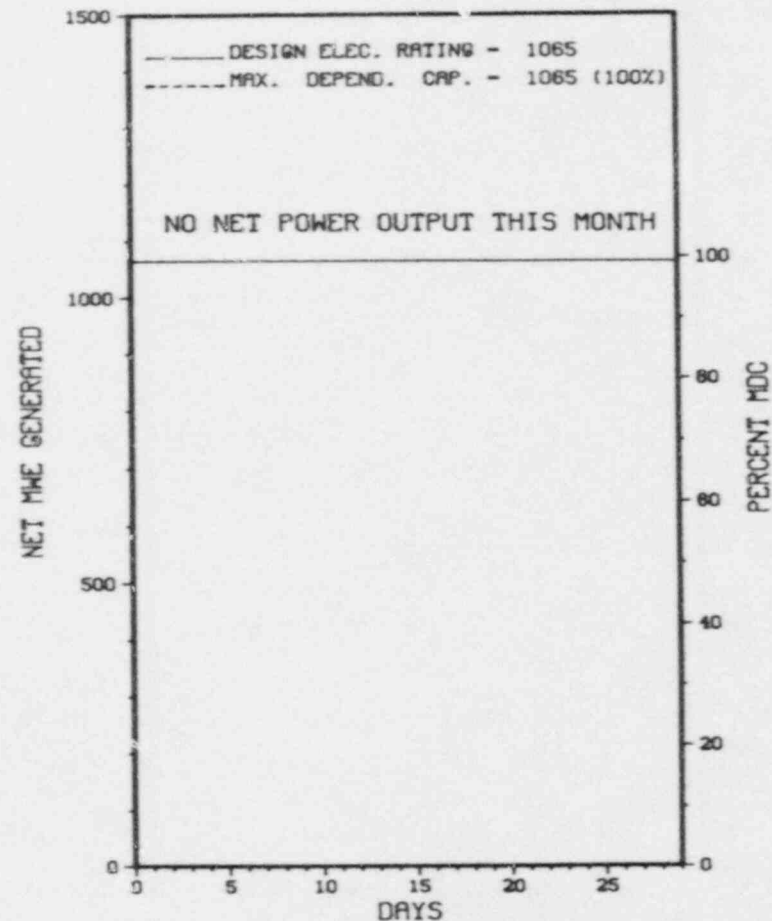
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* BROWNS FERRY 3 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 3



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

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\* BROWNS FERRY 3 \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
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157	03/03/85	F	696.0	F	4				
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ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

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\* SUMMARY \*  
\*\*\*\*\*  
BROWN'S FERRY 3 REMAINED ON ADMINISTRATIVE HOLD IN FEBRUARY IN ORDER TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



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\* BROWNS FERRY 3 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....ALABAMA  
COUNTY.....LIMESTONE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...10 MI NW OF  
DECATUR, ALA  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...AUGUST 8, 1976  
DATE ELEC ENER 1ST GENER...SEPTEMBER 12, 1976  
DATE COMMERCIAL OPERATE...MARCH 1, 1977  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...TENNESSEE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY  
LICENSEE.....TENNESSEE VALLEY AUTHORITY  
CORPORATE ADDRESS.....500A CHESTNUT STREET TOWER II  
CHATTANOOGA, TENNESSEE 37401  
CONTRACTOR  
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....J. PAULK  
LICENSING PROJ MANAGER.....J. GEARS  
DOCKET NUMBER.....50-296  
LICENSE & DATE ISSUANCE...DPR-68, AUGUST 18, 1976  
PUBLIC DOCUMENT ROOM.....ATHENS PUBLIC LIBRARY  
SOUTH AND FORREST  
ATHENS, ALABAMA 35611

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 1-31 (87-46): THIS ROUTINE INSPECTION WAS IN THE AREAS OF PREVIOUS ENFORCEMENT MATTERS, MULTI-PLANT ACTION ITEM, "WAR ROOM" MEETING, OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, INFORMATION NOTICE REVIEW, SURVEILLANCE OBSERVATION, REPORTABLE OCCURRENCES, COLD WEATHER PREPARATIONS, RESTART TESTING, AND EMERGENCY PROCEDURES. A VIOLATION OF TECHNICAL SPECIFICATION 4.7.B.2 A INVOLVED FAILURE TO PROPERLY TEST THE STANDBY GAS TREATMENT SYSTEM FOLLOWING THE FIRE IN THE UNIT 2 DRYWELL ON NOVEMBER 2, 1987.

INSPECTION JANUARY 25-29 (88-03): THIS ROUTINE, UNANNOUNCED INSPECTION EXAMINED THE FOLLOWING AREAS: SECURITY PLAN AND IMPLEMENTING PROCEDURES; RECORDS AND REPORTS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; LIGHTING; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL AND PACKAGES; AND ALARM STATIONS. ADDITIONALLY, AS PART OF THIS INSPECTION, THE INSPECTOR REVIEWED THE LICENSEE'S RESPONSIVE ACTION TO THE NRC'S REGULATORY EFFECTIVENESS REVIEW. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

LICENSEE EVALUATING CAUSE OF REACTOR VESSEL WATER LEVEL INDICATION PROBLEMS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

TVA APPOINTED MR. JOHN WALKER TO PLANT MANAGER POSITION.

PLANT STATUS:

SHUTDOWN ON MARCH 9, 1985.

LAST IE SITE INSPECTION DATE: JANUARY 25-29, 1988 +

INSPECTION REPORT NO: 50-296/88-03 +

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE.			

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1. Docket: 50-325 OPERATING STATUS
2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0
3. Utility Contact: FRANCES HARRISON (919) 457-2756
4. Licensed Thermal Power (Mwt): 2436
5. Nameplate Rating (Gross MWe): 963 X 0.9 = 867
6. Design Electrical Rating (Net MWe): 821
7. Maximum Dependable Capacity (Gross MWe): 815
8. Maximum Dependable Capacity (Net MWe): 790
9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE
10. Power Level To Which Restricted, If Any (Net MWe):
11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>96,025.0</u>
13. Hours Reactor Critical	<u>224.3</u>	<u>786.8</u>	<u>61,724.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,647.1</u>
15. Hrs Generator On-Line	<u>166.1</u>	<u>717.6</u>	<u>58,578.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>363,722</u>	<u>1,650,772</u>	<u>123,630,308</u>
18. Gross Elec Ener (MWH)	<u>116,380</u>	<u>541,365</u>	<u>40,650,912</u>
19. Net Elec Ener (MWH)	<u>108,511</u>	<u>519,559</u>	<u>39,098,691</u>
20. Unit Service Factor	<u>23.9</u>	<u>49.8</u>	<u>61.0</u>
21. Unit Avail Factor	<u>23.9</u>	<u>49.8</u>	<u>61.6</u>
22. Unit Cap Factor (MDC Net)	<u>19.7</u>	<u>45.7</u>	<u>51.5</u>
23. Unit Cap Factor (DER Net)	<u>19.0</u>	<u>43.9</u>	<u>49.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>15.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,619.7</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

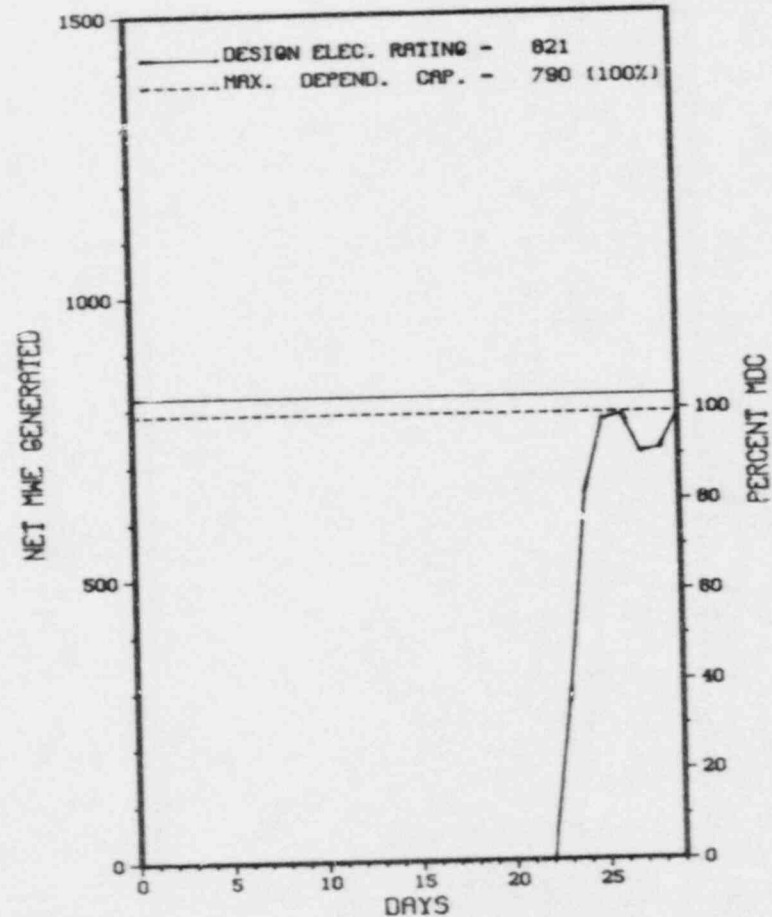
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X BRUNSWICK 1 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRUNSWICK 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* BRUNSWICK 1 \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-006	01/23/88	S	529.9	B	4				MAINTENANCE OUTAGE.
88-010	02/26/88	F	0.0	H	5				1C CIRC WATER PUMP STOPPED PER NPDES PERMIT TO NOT RUN COARSE MESH SCREEN PUMPS.
88011	02/26/88	F	0.0	H	5				VENT STATOR COOLANT RUNBACK D/P INSTRUMENT.

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 \* SUMMARY \*  
 \*\*\*\*\*  
 BRUNSWICK 1 ENTERED FEBRUARY SHUTDOWN FOR MAINTENANCE OUTAGE.  
 RETURNED TO POWER ON 23RD. SUBSEQUENTLY, INCURRED 2 POWER  
 REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* BRUNSWICK 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....NORTH CAROLINA  
COUNTY.....BRUNSWICK  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...3 MI N OF  
SOUTHPORT, NC  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...OCTOBER 8, 1976  
DATE ELEC ENER 1ST GENER...DECEMBER 4, 1976  
DATE COMMERCIAL OPERATE...MARCH 18, 1977  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...CAPE FEAR RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY  
LICENSEE.....CAROLINA POWER & LIGHT  
CORPORATE ADDRESS.....P. O. BOX 1551  
RALEIGH, NORTH CAROLINA 27602  
CONTRACTOR  
ARCHITECT/ENGINEER.....UNITED ENG. & CONSTRUCTORS  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BROWN & ROOT  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....W. RULAND  
LICENSING PROJ MANAGER.....E. SYLVESTER  
DOCKET NUMBER.....50-325  
LICENSE & DATE ISSUANCE...DPR-71, NOVEMBER 12, 1976  
PUBLIC DOCUMENT ROOM.....RANDALL LIBRARY  
UNIV OF N.C. AT WILMINGTON  
601 S. COLLEGE ROAD  
WILMINGTON, N. C. 28403

I N S P E C T I O N    S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 1-31 (87-42): THIS ROUTINE SAFETY INSPECTION BY THE RESIDENT INSPECTOR INVOLVED THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, MAINTENANCE OBSERVATION, SUREVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, COLD WEATHER PREPARATIONS, AND ONSITE FOLLOWUP OF EVENTS. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. FAILURE TO DEACTIVATE PRIMARY CONTAINMENT SYSTEM ISOLATION VALVES.

INSPECTION FEBRUARY 1-5 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF PLANT CHEMISTRY, HYDROGEN WATER CHEMISTRY, AND PIPE THINNING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS





Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* BRUNSWICK 2 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88003	01/02/88	S	696.0	C	4		RC	FUELXX	REFUELING/MAINTENANCE OUTAGE.

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\* SUMMARY \*  
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BRUNSWICK 2 REMAINED SHUTDOWN IN FEBRUARY FOR SCHEDULED  
REFUELING/MAINTENANCE OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)



\*\*\*\*\*  
\* BRUNSWICK 2 \*  
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FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NORTH CAROLINA  
COUNTY.....BRUNSWICK  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...3 MI N OF  
SOUTHPORT, NC  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...MARCH 20, 1975  
DATE ELEC ENER 1ST GENER...APRIL 29, 1975  
DATE COMMERCIAL OPERATE...NOVEMBER 3, 1975  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...CAPE FEAR RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CAROLINA POWER & LIGHT  
CORPORATE ADDRESS.....411 FAYETTEVILLE STREET  
RALEIGH, NORTH CAROLINA 27602  
CONTRACTOR  
ARCHITECT/ENGINEER.....UNITED ENG. & CONSTRUCTORS  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BROWN & ROOT  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....W. RULAND  
LICENSING PROJ MANAGER.....E. SYLVESTER  
DOCKET NUMBER.....50-324  
LICENSE & DATE ISSUANCE...DPR-62, DECEMBER 27, 1974  
PUBLIC DOCUMENT ROOM.....RANDALL LIBRARY  
UNIV OF N.C. AT WILMINGTON  
601 S. COLLEGE ROAD  
WILMINGTON, N. C. 28403

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 1-31 (87-43): THIS ROUTINE SAFETY INSPECTION BY THE RESIDENT INSPECTOR INVOLVED THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, MAINTENANCE OBSERVATION, SUREVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, COLD WEATHER PREPARATIONS, AND ONSITE FOLLOWUP OF EVENTS. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED: FAILURE TO DEACTIVATE PRIMARY CONTAINMENT SYSTEM ISOLATION VALVES.

INSPECTION FEBRUARY 1-5 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF PLANT CHEMISTRY, HYDROGEN WATER CHEMISTRY, AND PIPE THINNING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

REFUELING OUTAGE RESTART IN APRIL, 1988. +

LAST IE SITE INSPECTION DATE: FEBURARY 1-5, 1988 +

INSPECTION REPORT NO: 50-324/88-07 +

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/02/88	02/01/88	MANUAL REACTOR SCRAM DUE TO DECREASING MAIN CONDENSER VACUUM FAILURE OF PRIMARY CONTAINMENT GROUP 2 VAL TO CLOSE ON ISOL

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1. Docket: 50-454 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: D. J. SPITZER (815) 234-5441 X2023  
 4. Licensed Thermal Power (MWt): 3911  
 5. Nameplate Rating (Gross MWe): 1175  
 6. Design Electrical Rating (Net MWe): 1120  
 7. Maximum Dependable Capacity (Gross MWe): 1120  
 8. Maximum Dependable Capacity (Net MWe): 1120  
 9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): 1097  
 11. Reasons for Restrictions, If Any:

STEAM GENERATOR SPLIT FLOW

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>21,529.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>16,752.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>37.8</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>16,401.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>0</u>
17. Gross Therm Ener (MWH)	<u>2,303,251</u>	<u>4,414,159</u>	<u>48,010,010</u>
18. Gross Elec Ener (MWH)	<u>762,962</u>	<u>1,453,446</u>	<u>16,079,223</u>
19. Net Elec Ener (MWH)	<u>723,016</u>	<u>1,373,388</u>	<u>15,112,865</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>76.2</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>76.2</u>
22. Unit Cap Factor (MDC Net)	<u>92.8</u>	<u>85.2</u>	<u>62.7</u>
23. Unit Cap Factor (DER Net)	<u>92.8</u>	<u>85.2</u>	<u>62.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>5.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>912.1</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

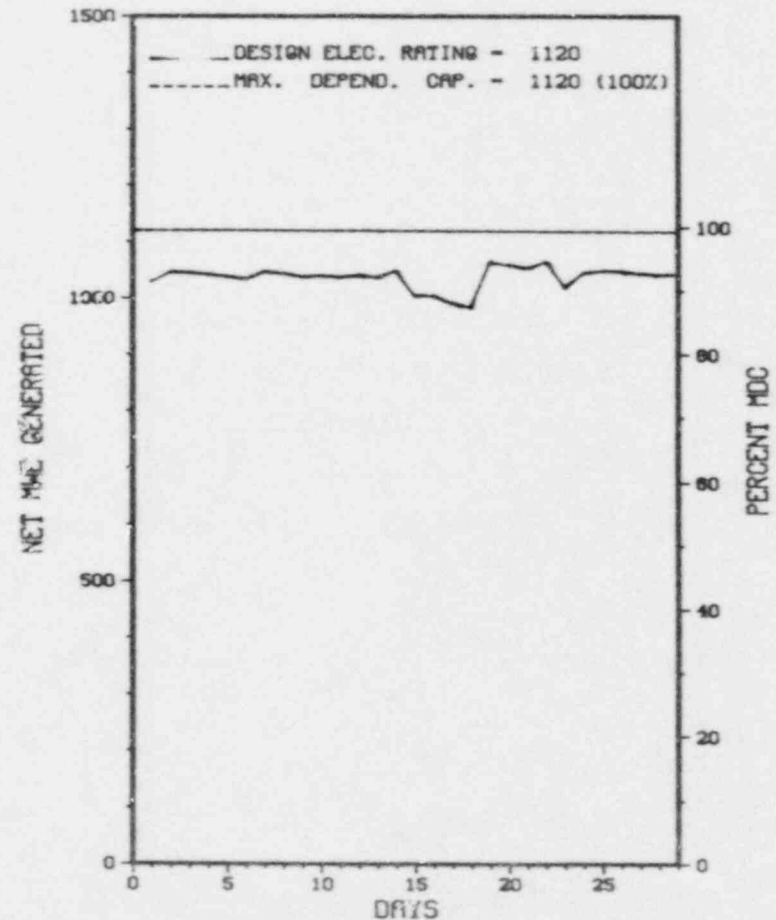
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* BYRON 1 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* BYRON 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

XXXXXXXXXX BYRON : OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
\* SUMMARY \*  
XXXXXXXXXX OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* BYRON 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....OGLE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...17 MI SW OF  
ROCKFORD, ILL  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...FEBRUARY 2, 1985  
DATE ELEC EMER 1ST GENER...MARCH 1, 1985  
DATE COMMERCIAL OPERATE...SEPTEMBER 16, 1985  
CONDENSER COOLING METHOD...CC HNDCT  
CONDENSER COOLING WATER...ROCK RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....COMMONWEALTH EDISON  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....J. HINDS  
LICENSING PROJ MANAGER.....L. OLSHAN  
BUCKET NUMBER.....50-454  
LICENSE & DATE ISSUANCE...NPF-37, FEBRUARY 14, 1985  
PUBLIC DOCUMENT ROOM.....LIBRARIAN  
BUSINESS SCIENCE & TECHNOLOGY DEPT.  
ROCKFORD PUBLIC LIBRARY  
215 NORTH WYMAN STREET  
ROCKFORD, ILLINOIS 61101

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON JULY 7-9 AND AUGUST 20-21 (87027; 87025): ROUTINE, UNANNOUNCED SAFETY INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; FOLLOWUP REVIEW OF NONSEISMICALLY QUALIFIED COMPONENTS IN EMERGENCY DIESEL GENERATOR (DG) CONTROL CIRCUITRY; OBSERVATION OF MAINTENANCE SURVEILLANCE ACTIVITIES, AND TRAINING (62705, 92702, 92705, 41400). OF THE FOUR AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THREE AREAS. ONE VIOLATION WAS IDENTIFIED IN ONE AREA (FAILURE TO ASSURE, VIA THE DESIGN REVIEW PROCESS, THAT SEISMICALLY QUALIFIED ELECTRICAL COMPONENTS WERE USED IN THE DG CONTROL CIRCUITRY).

INSPECTION FROM DECEMBER 1-31 (87043; 87040): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; BULLETINS; LICENSEE EVENT REPORTS (LERS); OPERATIONS SUMMARY; TRAINING; LOCAL LEAK RATE TESTING; SURVEILLANCE; MAINTENANCE; OPERATIONAL SAFETY; AND EVENT FOLLOWUP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED, NOR WERE ANY ITEMS IDENTIFIED WHICH COULD AFFECT THE PUBLIC'S HEALTH AND SAFETY.

INSPECTION FROM JANUARY 1 THROUGH FEBRUARY 11 (88002, 88002): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; LICENSEE EVENT REPORTS; OPERATIONS SUMMARY; TRAINING; SURVEILLANCE; MAINTENANCE; OPERATIONAL SAFETY AND ENGINEERED SAFETY FEATURES (ESF) SYSTEM WALKDOWN; INFORMATION NOTICE FOLLOWUP; MEETINGS WITH LOCAL PUBLIC OFFICIALS; ALLEGATION FOLLOWUP; AND MANAGEMENT MEETINGS. OF THE 10 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN 8 AREAS. IN THE TWO REMAINING AREAS, 1 VIOLATION WAS IDENTIFIED FOR WHICH A NOTICE OF VIOLATION WAS ISSUED (FAILURE TO MAINTAIN ENVIRONMENTAL QUALIFICATION FOR A SAFETY-RELATED COMPONENT), AND A SECOND VIOLATION WAS IDENTIFIED FOR WHICH, IN



1. Docket: 50-455 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: D. J. SPITZER (815)234-5441 X2023  
 4. Licensed Thermal Power (MWt): 3411  
 5. Nameplate Rating (Gross MWe): 1175  
 6. Design Electrical Rating (Net MWe): 1120  
 7. Maximum Dependable Capacity (Gross MWe): 1120  
 8. Maximum Dependable Capacity (Net MWe): 1120  
 9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): 1055  
 11. Reasons for Restrictions, If Any:

STEAM GENERATOR SPLIT FLOW

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>4,633.0</u>
13. Hours Reactor Critical	<u>681.6</u>	<u>1,425.6</u>	<u>3,752.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>601.1</u>	<u>1,345.1</u>	<u>3,625.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,765,813</u>	<u>3,569,270</u>	<u>10,041,433</u>
18. Gross Elec Ener (MWH)	<u>577,812</u>	<u>1,183,030</u>	<u>3,287,341</u>
19. Net Elec Ener (MWH)	<u>543,279</u>	<u>1,109,986</u>	<u>3,080,887</u>
20. Unit Service Factor	<u>86.4</u>	<u>93.4</u>	<u>78.3</u>
21. Unit Avail Factor	<u>86.4</u>	<u>93.4</u>	<u>78.3</u>
22. Unit Cap Factor (MDC Net)	<u>69.7</u>	<u>68.8</u>	<u>59.4</u>
23. Unit Cap Factor (DER Net)	<u>69.7</u>	<u>68.8</u>	<u>59.4</u>
24. Unit Forced Outage Rate	<u>4.0</u>	<u>1.8</u>	<u>8.0</u>
25. Forced Outage Hours	<u>25.2</u>	<u>25.2</u>	<u>313.2</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

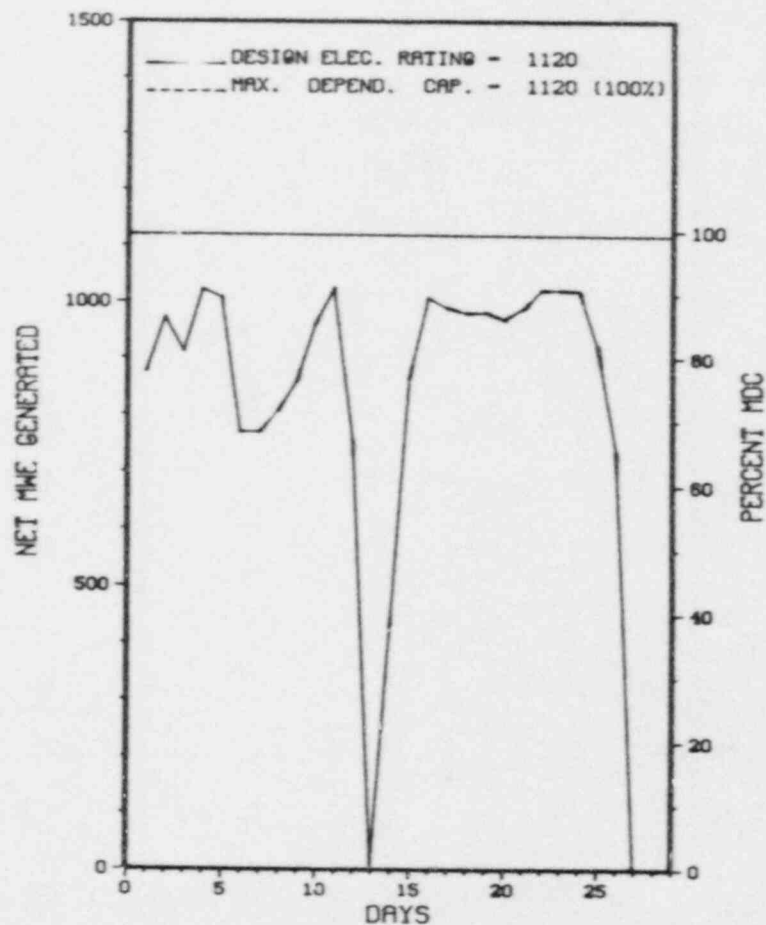
NONE

27. If Currently Shutdown Estimated Startup Date: 03/03/88

\*\*\*\*\*  
 \* BYRON 2 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* BYRON 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3	02/06/88	S	0.0	A	5		CK		REDUCED LOAD TO ALLOW FOR 2A CW BOX CLEANING.
4	02/12/88	F	25.2	A	3	6-2-88-26	FW	2CFWPP	2C FEEDWATER PUMP TRIPPED - ATTEMPTS TO MAINTAIN SG LEVEL BY RUNNING BACK THE TURBINE FAILED.
5	02/27/88	S	69.7	A	1		EH		TOOK UNIT 2 TURBINE OFF LINE TO TROUBLESHOOT AND REPAIR EH SYSTEM LOW PRESSURE. REACTOR AT 12% POWER.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 BYRON 2 INCURRED 2 OUTAGES AND 1 POWER REDUCTION IN  
 FEBRUARY IJR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* BYRON 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....OGLE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...17 MI SW OF  
ROCKFORD, ILL  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JANUARY 9, 1987  
DATE ELEC ENER 1ST GENER...FEBRUARY 6, 1987  
DATE COMMERCIAL OPERATE...AUGUST 21, 1987  
CONDENSER COOLING METHOD...CCHNDCT  
CONDENSER COOLING WATER...ROCK RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690

CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....COMMONWEALTH EDISON  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....J. HINDS  
LICENSING PROJ MANAGER.....L. OLSHAN  
DOCKET NUMBER.....50-455  
LICENSE & DATE ISSUANCE...NPF-66, JANUARY 30, 1987  
PUBLIC DOCUMENT ROOM.....LIBRARIAN  
BUSINESS SCIENCE & TECHNOLOGY DEPT.  
ROCKFORD PUBLIC LIBRARY  
215 NORTH HYMAN STREET  
ROCKFORD, ILLINOIS 61101

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON JULY 7-9 AND AUGUST 20-21 (87027; 87025): ROUTINE, UNANNOUNCED SAFETY INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; FOLLOWUP REVIEW OF NONSEISMICALLY QUALIFIED COMPONENTS IN EMERGENCY DIESEL GENERATOR (DG) CONTROL CIRCUITRY; OBSERVATION OF MAINTENANCE SURVEILLANCE ACTIVITIES, AND TRAINING (62705, 92702, 92705, 41400). OF THE FOUR AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THREE AREAS. ONE VIOLATION WAS IDENTIFIED IN ONE AREA (FAILURE TO ASSURE, VIA THE DESIGN REVIEW PROCESS, THAT SEISMICALLY QUALIFIED ELECTRICAL COMPONENTS WERE USED IN THE DG CONTROL CIRCUITRY).

INSPECTION FROM DECEMBER 1-31 (87043; 87040): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; BULLETINS; LICENSEE EVENT REPORTS (LERS); OPERATIONS SUMMARY; TRAINING; LOCAL LEAK RATE TESTING; SURVEILLANCE; MAINTENANCE; OPERATIONAL SAFETY; AND EVENT FOLLOWUP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED, NOR WERE ANY ITEMS IDENTIFIED WHICH COULD AFFECT THE PUBLIC'S HEALTH AND SAFETY.

INSPECTION FROM JANUARY 1 THROUGH FEBRUARY 11 (88002, 88032): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; LICENSEE EVENT REPORTS; OPERATIONS SUMMARY; TRAINING; SURVEILLANCE; MAINTENANCE; OPERATIONAL SAFETY AND ENGINEERED SAFETY FEATURES (ESF) SYSTEM WALKDOWN; INFORMATION NOTICE FOLLOWUP; MEETINGS WITH LOCAL PUBLIC OFFICIALS; ALLEGATION FOLLOWUP; AND MANAGEMENT MEETINGS. OF THE 10 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN 8 AREAS. IN THE TWO REMAINING AREAS, 1 VIOLATION WAS IDENTIFIED FOR WHICH A NOTICE OF VIOLATION WAS ISSUED (FAILURE TO MAINTAIN ENVIRONMENTAL QUALIFICATION FOR A SAFETY-RELATED COMPONENT), AND A SECOND VIOLATION WAS IDENTIFIED FOR WHICH, IN

INSPECTION SUMMARY

ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.G.1, A NOTICE OF VIOLATION WAS NOT ISSUED (FAILURE TO PROPERLY CALIBRATE A RADIATION DETECTOR).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

CHANGE NRC RESIDENT TO P BROCHMAN

PLANT STATUS:

U-2 SHUTDOWN UNTIL SEPTEMBER 4, FOR FORCED OUTAGE. ONLINE FOR REST OF MONTH U-2 PLACED IN COMMERCIAL SERVICE EFFECTIVE 8/21/87.

LAST IE SITE INSPECTION DATE: 02/18/88

INSPECTION REPORT NO: 88005

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	021288	021288	REACTOR TRIP ON 2C STEAM GENERATOR LOW LEVEL DUE TO A FEEDWATER PUMP TRIP AND FAILURE OF DIGITAL ELECTROHYDRAULIC CONTROL SYSTEM TO RUNBACK TURBINE

=====

1. Docket: 50-483                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: MARY DALY (314) 676-8460

4. Licensed Thermal Power (Mwt):                      3411

5. Nameplate Rating (Gross MWe):                      1373 X .9 = 1236

6. Design Electrical Rating (Net MWe):                      1171

7. Maximum Dependable Capacity (Gross MWe):                      1174

8. Maximum Dependable Capacity (Net MWe):                      1120

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):                     

11. Reasons for Restrictions, If Any:                       
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>28,022.5</u>
13. Hours Reactor Critical	<u>600.5</u>	<u>1,333.7</u>	<u>23,331.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>583.6</u>	<u>1,303.6</u>	<u>22,759.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,944,633</u>	<u>4,345,394</u>	<u>72,635,174</u>
18. Gross Elec Ener (MWH)	<u>664,073</u>	<u>1,483,000</u>	<u>24,524,720</u>
19. Net Elec Ener (MWH)	<u>631,769</u>	<u>1,412,238</u>	<u>23,301,914</u>
20. Unit Service Factor	<u>83.9</u>	<u>90.5</u>	<u>81.2</u>
21. Unit Avail Factor	<u>83.9</u>	<u>90.5</u>	<u>81.2</u>
22. Unit Cap Factor (MDC Net)	<u>81.0</u>	<u>87.6</u>	<u>74.2</u>
23. Unit Cap Factor (DER Net)	<u>77.5</u>	<u>83.8</u>	<u>71.0</u>
24. Unit Forced Outage Rate	<u>16.1</u>	<u>9.5</u>	<u>4.4</u>
25. Forced Outage Hours	<u>112.4</u>	<u>136.4</u>	<u>1,039.9</u>

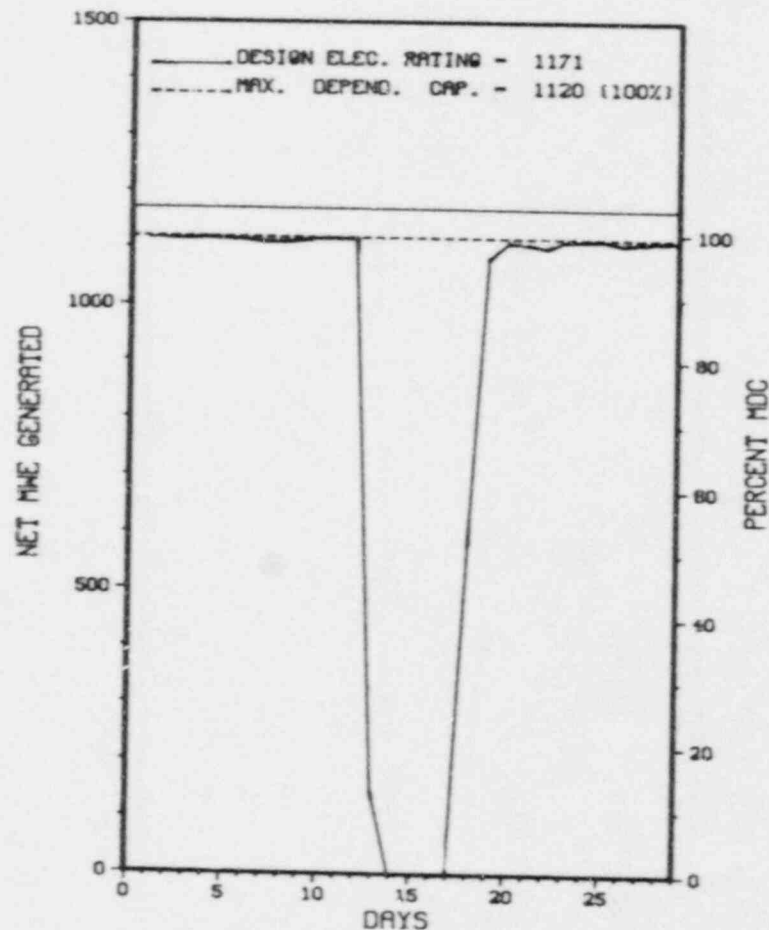
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                      CALLAWAY 1                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALLAWAY 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* CALLAWAY 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3	02/13/88	F	112.4	B	3	88-004-0			TURBINE/REACTOR TRIP WHILE PERFORMING TURBINE TRIP TEST. SUBSEQUENT SAFETY INJECTION.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
CALLAWAY 1 INCURRED 1 OUTAGE IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)

\*\*\*\*\*  
\* CALLAWAY 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MISSOURI  
COUNTY.....CALLAWAY  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...10 MI SE OF  
FULTON, MO  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...OCTOBER 2, 1984  
DATE ELEC ENER 1ST GENER...OCTOBER 24, 1984  
DATE COMMERCIAL OPERATE...DECEMBER 19, 1984  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...MISSOURI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....UNION ELECTRIC  
CORPORATE ADDRESS.....P.O. BOX 149  
ST LOUIS, MISSOURI 63166  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DANIEL INTERNATIONAL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....B. LITTLE  
LICENSING PROJ MANAGER....T. ALEXION  
DOCKET NUMBER.....50-483  
LICENSE & DATE ISSUANCE...NPF-30, OCTOBER 18, 1984  
PUBLIC DOCUMENT ROOM.....WASHINGTON UNIVERSITY  
JOHN M. OLIN LIBRARY  
SKINKER & LINDELL BLVD.  
ST. LOUIS, MO. 63130

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION FROM DECEMBER 5 THROUGH FEBRUARY 6 (87036): A ROUTINE UNANNOUNCED SAFETY INSPECTION OF LICENSEE EVENT REPORTS (LERS), INSPECTOR-IDENTIFIED PROBLEMS, PLANT OPERATIONS, ENGINEERED SAFETY FEATURES (ESF) SYSTEM WALKDOWN, RADIOLOGICAL CONTROLS, MAINTENANCE, SURVEILLANCE, FIRE PROTECTION, EMERGENCY PREPAREDNESS, SECURITY, QUALITY PROGRAMS AND ADMINISTRATIVE CONTROLS AFFECTING QUALITY, TRAINING AND QUALIFICATION EFFECTIVENESS AND REGIONAL REQUESTS. OF THE 13 AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED IN 12 AREAS. ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA (FAILURE TO PLACE THE AUXILIARY FEEDWATER PRESSURE SWITCH IN A TRIPPED CONDITION WITHIN ONE HOUR). HOWEVER, IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.A., A NOTICE OF VIOLATION WAS NOT ISSUED. THE VIOLATION WAS OF MINOR SAFETY SIGNIFICANCE.

INSPECTION ON JANUARY 25 THROUGH FEBRUARY 2 (88003): ROUTINE, UNANNOUNCED INSPECTION OF THE EMERGENCY PREPAREDNESS PROGRAM INCLUDING: EMERGENCY PLAN ACTIVATIONS; LICENSEE ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; CHANGES TO THE EMERGENCY PLAN AND IMPLEMENTING PROCEDURES; TRAINING; MANAGEMENT AND ORGANIZATION CONTROL; INDEPENDENT AUDITS; STAFF AUGMENTATION; COMMUNICATIONS; FACILITIES AND EQUIPMENT; AND REQUIRED DRILLS. THE INSPECTION WAS CONDUCTED BY TWO NRC INSPECTORS. ONE VIOLATION WAS IDENTIFIED AS A RESULT OF THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE



1. Docket: 50-317 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: C. BEHNKE (301) 260-4871

4. Licensed Thermal Power (MWt): 2700

5. Nameplate Rating (Gross MWe): 1020 X 0.9 = 918

6. Design Electrical Rating (Net MWe): 845

7. Maximum Dependable Capacity (Gross MWe): 860

8. Maximum Dependable Capacity (Net MWe): 825

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

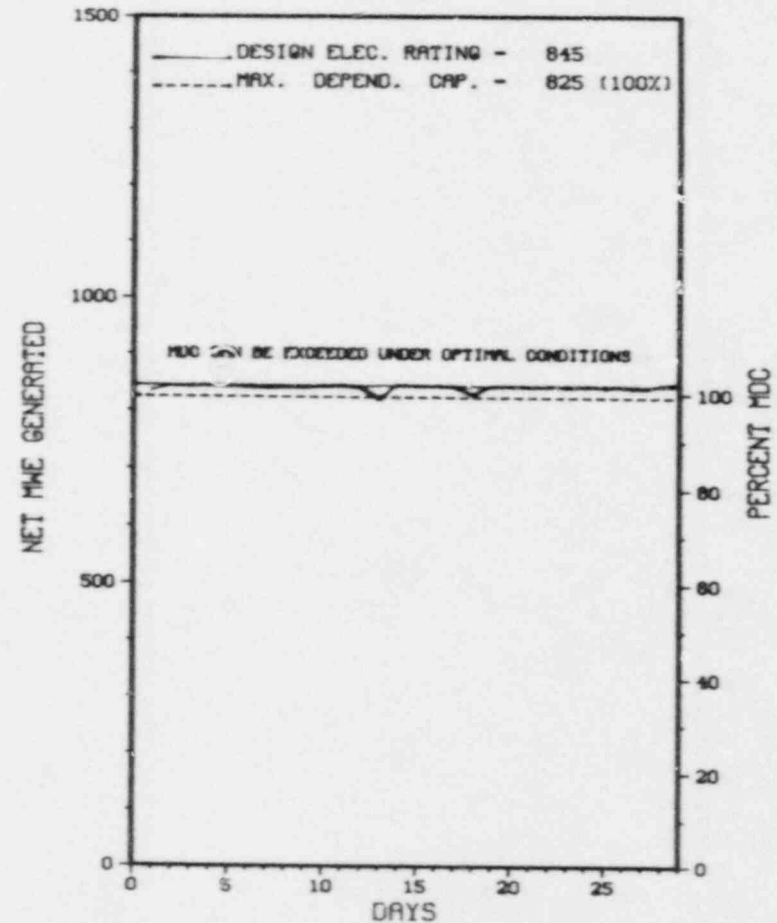
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>112,333.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>87,827.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,299.2</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,414.4</u>	<u>65,867.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,818,768</u>	<u>3,695,033</u>	<u>215,769,751</u>
18. Gross Elec Ener (MWH)	<u>611,347</u>	<u>1,243,426</u>	<u>71,459,027</u>
19. Net Elec Ener (MWH)	<u>586,372</u>	<u>1,191,968</u>	<u>68,207,485</u>
20. Unit Service Factor	<u>100.0</u>	<u>98.2</u>	<u>76.4</u>
21. Unit Avail Factor	<u>100.0</u>	<u>98.2</u>	<u>76.4</u>
22. Unit Cap Factor (MDC Net)	<u>102.1</u>	<u>100.3</u>	<u>73.6*</u>
23. Unit Cap Factor (DER Net)	<u>99.7</u>	<u>98.0</u>	<u>71.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.8</u>	<u>9.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>25.6</u>	<u>8,607.8</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING, APRIL 8, 1988 - 48 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* CALVERT CLIFFS 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
CALVERT CLIFFS 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* CALVERT CLIFFS 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
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NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*

CALVERT CLIFFS 1 OPERATED ROUTINELY IN FEBRUARY WITH NO  
OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0151)



\*\*\*\*\*  
\* CALVERT CLIFFS 1 \*  
\*\*\*\*\*

F A C I L I T Y   D A T A

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MARYLAND  
COUNTY.....CALVERT  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...40 MI S OF  
ANNAPOLIS, MD  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...OCTOBER 7, 1974  
DATE ELEC ENER 1ST GENER...DECEMBER 30, 1974  
DATE COMMERCIAL OPERATE...MAY 8, 1975  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATFR...CHESAPEAKE BAY  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....BALTIMORE GAS & ELEC  
CORPORATE ADDRESS.....P.O. BOX 1475  
BALTIMORE, MARYLAND 21203  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....T. FOLEY  
LICENSING PROJ MANAGER.....S. MCNEIL  
DOCKET NUMBER.....50-317  
LICENSE & DATE ISSUANCE...DPR-53, JULY 31, 1974  
PUBLIC DOCUMENT ROOM.....CALVERT COUNTY LIBRARY  
FOURTH STREET  
PRINCE FREDERICK, MARYLAND 20678

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B CRITERION XVI REQUIRES THAT MEASURES ESTABLISHED TO ASSURE THAT CONDITIONS ADVERSE TO QUALITY ARE PROMPTLY IDENTIFIED AND CORRECTED. CONTRARY TO THE ABOVE, ON SEPTEMBER 8, 1987, MEASURES WERE NOT ESTABLISHED TO ASSURE THAT THE ROOT CAUSE OF THE TRIPPING OF #12 EMERGENCY DIESEL GENERATOR ON HIGH COOLING WATER TEMPERATURE WAS PROMPTLY IDENTIFIED AND CORRECTED PRIOR TO DECLARATION OF DIESEL OPERABILITY. THE FAILURE RECURRED ON SEPTEMBER 28, 1987, AND THE ROOT CAUSE WAS THEN IDENTIFIED. 10 CFR 50, APPENDIX B CRITERION XVI REQUIRES THAT MEASURES ESTABLISHED TO ASSURE THAT CONDITIONS ADVERSE TO QUALITY ARE PROMPTLY IDENTIFIED AND CORRECTED. CONTRARY TO THE ABOVE, ON SEPTEMBER 8, 1987, MEASURES WERE NOT ESTABLISHED TO ASSURE THAT THE ROOT CAUSE OF THE TRIPPING OF #12 EMERGENCY DIESEL GENERATOR ON HIGH COOLING WATER TEMPERATURE WAS PROMPTLY IDENTIFIED AND CORRECTED PRIOR TO DECLARATION OF DIESEL OPERABILITY. THE FAILURE RECURRED ON SEPTEMBER 28, 1987, AND THE ROOT CAUSE WAS THEN IDENTIFIED. (8702 4)

OTHER ITEMS

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NO INPUT PROVIDED.

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1. Docket: 50-318                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: C. BEHNKE (301) 260-4871

4. Licensed Thermal Power (Mwt):                      2700

5. Nameplate Rating (Gross MWe):                      10.2 X 0.9 = 911

6. Design Electrical Rating (Net MWe):                      845

7. Maximum Dependable Capacity (Gross MWe):                      860

8. Maximum Dependable Capacity (Net MWe):                      825

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

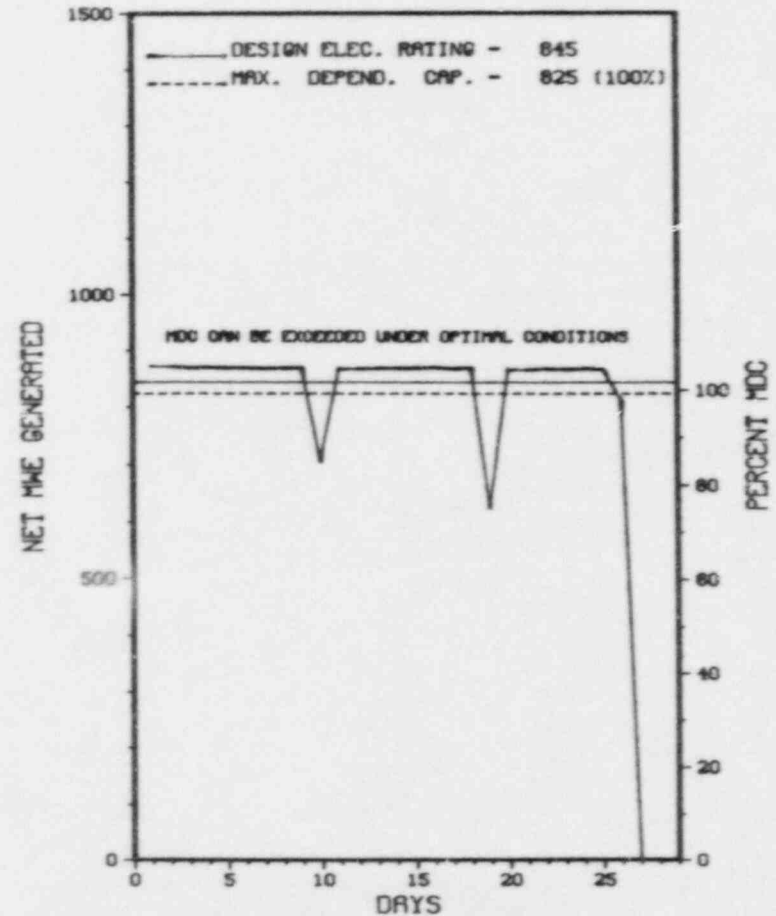
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>95,688.0</u>
13. Hours Reactor Critical	<u>649.7</u>	<u>1,381.7</u>	<u>79,224.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,296.8</u>
15. Hrs Generator On-Line	<u>648.7</u>	<u>1,376.9</u>	<u>78,057.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,630,042</u>	<u>3,556,246</u>	<u>196,896,909</u>
18. Gross Elec Ener (MWH)	<u>554,058</u>	<u>1,210,673</u>	<u>65,098,809</u>
19. Net Elec Ener (MWH)	<u>531,488</u>	<u>1,161,178</u>	<u>62,150,075</u>
20. Unit Service Factor	<u>93.2</u>	<u>95.6</u>	<u>81.6</u>
21. Unit Avail Factor	<u>93.2</u>	<u>95.6</u>	<u>81.6</u>
22. Unit Cap Factor (MDC Net)	<u>92.6</u>	<u>97.7</u>	<u>78.7</u>
23. Unit Cap Factor (DER Net)	<u>90.4</u>	<u>95.4</u>	<u>76.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.1</u>	<u>5.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>15.8</u>	<u>4,588.3</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Startup Date: 03/18/88

\*\*\*\*\*  
\* CALVERT CLIFFS 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALVERT CLIFFS 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XX  
 X CALVERT CLIFFS 2 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	02/10/88	F	0.0	A	5		SF	INSTRU	REDUCTION TO REPAIR 22B SAFETY INJECTION TANK LEVEL MONITORING TRANSMITTER.
88-03	02/19/88	F	0.0	A	5		SF	INSTRU	REDUCTION TO REPLACE 21A SAFETY INJECTION TANK LEVEL MONITORING TRANSMITTER.
88-04	02/27/88	S	47.3	B	1				SHUTDOWN FOR PRE-SUMMER GENERAL MAINTENANCE MINI-OUTAGE.

XXXXXXXXXXXX CALVERT CLIFFS 2 INCURRED 2 POWER REDUCTIONS IN FEBRUARY FOR REASONS  
 \* SUMMARY \* STATED ABOVE AND SUBSEQUENTLY SHUTDOWN FOR SCHEDULED MAINTENANCE  
 XXXX-XXXXXX OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* CALVERT CLIFFS 2 \*  
\*\*\*\*\*

F A C I L I T Y   D A T A

Report Period FEB 1985

FACILITY DESCRIPTION

LOCATION  
STATE.....MARYLAND  
COUNTY.....CALVERT  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...40 MI S OF  
ANNAPOLIS, MD  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...NOVEMBER 30, 1976  
DATE ELEC ENER 1ST GENER...DECEMBER 7, 1976  
DATE COMMERCIAL OPERATE...APRIL 1, 1977  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...CHESAPEAKE BAY  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....BALTIMORE GAS & ELEC  
CORPORATE ADDRESS.....P.O. BOX 1475  
BALTIMORE, MARYLAND 21203  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....T. FOLEY  
LICENSING PROJ MANAGER.....S. MCNEIL  
DOCKET NUMBER.....50-318  
LICENSE & DATE ISSUANCE...DPR-69, NOVEMBER 30, 1976  
PUBLIC DOCUMENT ROOM.....CALVERT COUNTY LIBRARY  
FOURTH STREET  
PRINCE FREDERICK, MARYLAND 20678

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*            CALVERT CLIFFS 2            \*  
\*\*\*\*\*

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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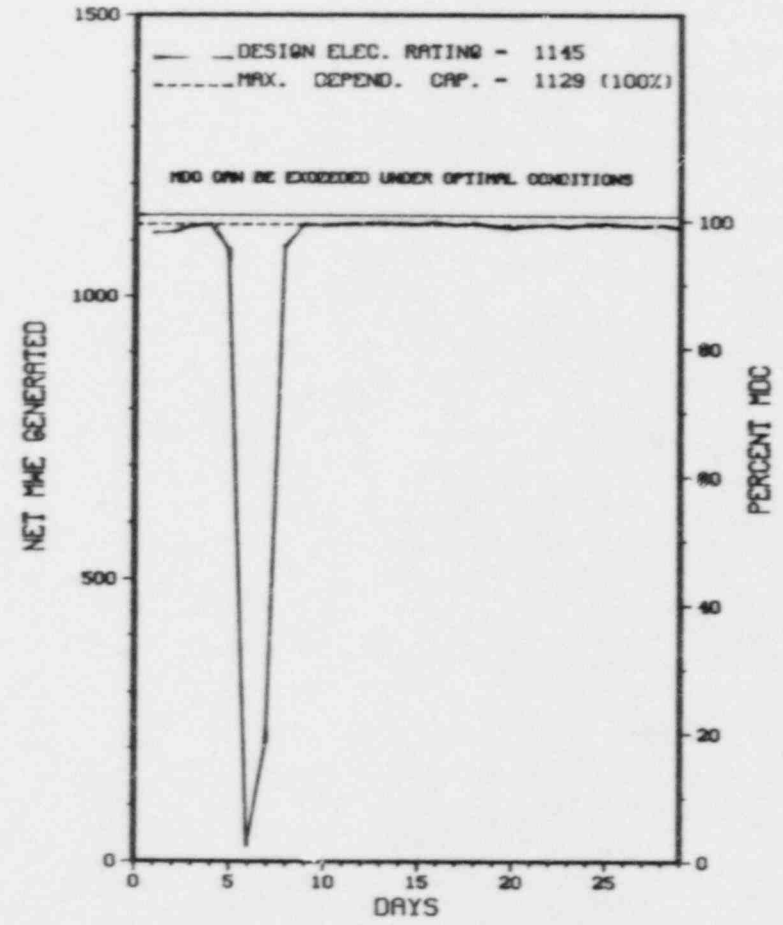
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
-----			
NO INPUT PROVIDED.			
=====			

1. Docket: 50-413 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: J. A. REAVIS (704) 373-7567  
 4. Licensed Thermal Power (MWh): 3411  
 5. Nameplate Rating (Gross MWe): 1305  
 6. Design Electrical Rating (Net MWe): 1145  
 7. Maximum Dependable Capacity (Gross MWe): 1145  
 8. Maximum Dependable Capacity (Net MWe): 1129  
 9. If Changes Occur Above Since Last Report, Give Reasons:

\*\*\*\*\*  
 \* CATAWBA 1 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CATAWBA 1



10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_  
 11. Reasons for Restrictions, If Any: \_\_\_\_\_  
 NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>23,425.0</u>
13. Hours Reactor Critical	<u>671.6</u>	<u>1,230.7</u>	<u>16,344.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>665.1</u>	<u>1,195.9</u>	<u>15,795.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,176,563</u>	<u>3,752,228</u>	<u>49,807,092</u>
18. Gross Elec Ener (MWH)	<u>777,144</u>	<u>1,326,410</u>	<u>17,417,532</u>
19. Net Elec Ener (MWH)	<u>734,738</u>	<u>1,244,181</u>	<u>16,245,026</u>
20. Unit Service Factor	<u>95.6</u>	<u>83.0</u>	<u>67.4</u>
21. Unit Avail Factor	<u>95.6</u>	<u>83.0</u>	<u>67.4</u>
22. Unit Cap factor (MDC Net)	<u>93.5</u>	<u>76.5</u>	<u>61.4</u>
23. Unit Cap factor (DER Net)	<u>92.2</u>	<u>75.5</u>	<u>60.6</u>
24. Unit Forced Outage Rate	<u>4.4</u>	<u>16.9</u>	<u>18.2</u>
25. Forced Outage Hours	<u>30.9</u>	<u>243.6</u>	<u>3,502.7</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
 NONE

27. If Currently Shutdown Estimated Startup Date: N/A

FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* CATAWBA 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
19-P	02/01/88	F	0.0	A	5		CB	ZZZZZZ	REACTOR COOLANT FLOW OUT OF SPEC.
20-P	02/05/88	F	0.0	B	5		CG	VALVEX	POWER REDUCTION TO INSPECT SAFETY RELATED LIMITORQUE VALVES INSIDE CONTAINMENT.
6	02/06/88	F	30.9	B	1		CG	VALVEX	UNIT SHUTDOWN TO INSPECT SAFETY RELATED LIMITORQUE VALVES INSIDE CONTAINMENT.
21-P	02/07/88	S	0.0	B	5		IE	INSTRU	POWER HOLD FOR NUCLEAR INSTRUMENT CALIBRATION.
22-P	02/08/88	F	0.0	A	5		CB	ZZZZZZ	POWER REDUCTION DUE TO REACTOR COOLANT FLOW OUT OF SPEC.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 CATAWBA 1 INCURRED 4 POWER REDUCTIONS AND 1 OUTAGE IN FEBRUARY AS DISCUSSED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* CATAWBA 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....SOUTH CAROLINA  
  
COUNTY.....YORK  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...6 MI NW OF  
ROCK HILL, SC  
  
TYPE OF REACTOR.....PWR  
  
DATE INITIAL CRITICALITY...JANUARY 7, 1985  
DATE ELEC ENER 1ST GENER...JANUARY 22, 1985  
DATE COMMERCIAL OPERATE...JUNE 29, 1985  
CONDENSER COOLING METHOD...MDCT  
CONDENSER COOLING WATER...LAKE WYLIE  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUKE POWER  
  
CORPORATE ADDRESS.....422 SOUTH CHURCH STREET  
CHARLOTTE, NORTH CAROLINA 28242  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....DUKE POWER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
INSTRUCTOR.....DUKE POWER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....P. SKINNER  
LICENSING PROJ MANAGER.....K. JABBOUR  
DOCKET NUMBER.....50-413  
LICENSE & DATE ISSUANCE...NPF-35, JANUARY 17, 1985  
PUBLIC DOCUMENT ROOM.....YORK COUNTY LIBRARY  
138 E. BLACK STREET  
ROCK HILL, SOUTH CAROLINA 29730

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 26, 1987 - JANUARY 25, 1988 (87-44): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF REVIEW OF PLANT OPERATIONS; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; FOI OF PREVIOUSLY IDENTIFIED ITEMS; REVIEW OF LOW TEMPERATURE OVERPRESSURE PROTECTION, REFUELING ACTIVITIES; AND PART 21 REPORT OF THE NINE (9) AREAS INSPECTED, TWO APPARENT VIOLATIONS WERE IDENTIFIED IN TWO AREAS. (FAILURE TO FOLLOW PROCEDURE REGARDING IN OPERATION WITHOUT EMERGENCY POWER SUPPLY FOR CONTROL ROOM AREA VENTILATION AND FAILURE TO MAINTAIN AUXILIARY FEEDER AUTOMATIC VALVES IN THE FLOW PATH FULLY OPEN.

INSPECTION JANUARY 5-7 AND 19-22 (88-01): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) (UNITS 1 AND 2) AND MAINTENANCE/MODIFICATION WELDING AND NDE (UNIT 2). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 11-15 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) INCLUDING NONDESTRUCTIVE EXAMINATION (NDE) PROCEDURES REVIEW, OBSERVATION OF EXAMINATIONS, INDEPENDENT EXAMINATION VERIFICATIONS, AND ISI DATA REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 12-15 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF THE SNUBBER SURVEILLANCE PROGRAM, REFUELING ACTIVITIES, AND LICENSEE ACTION ON A PREVIOUS INSPECTION FINDINGS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 25-29 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF COMPLEX SURVEILLANCE TESTING, MODIFICATION TESTING, IE BULLETIN FOLLOW-UP, AND LICENSEE EVENT REPORT (LER) REVIEW. ONE VIOLATION WAS IDENTIFIED INVOLVING

INSPECTION SUMMARY

FAILURE TO DOCUMENT ACTIVITIES DURING MOVATS TESTING OF ROTORK ACTUATORS.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NONE.

LAST IE SITE INSPECTION DATE: JANUARY 25-29, 1988 +

INSPECTION REPORT NO: 50-413/88-05 +

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/12/88	02/11/88	MISSED HOURLY FIRE WATCHES RESULTING IN TECH SPEC VIOLATIONS DUE TO PERSONNEL ERROR AND MANAGEMENT DEFICIENCIES
88-003	01/16/88	02/15/88	WIDE RANGE TEMPERATURE MONITORING INST TECHNICALLY INOPERABLE DURING CERTAIN ACCIDENT CONDITION; INSTALLATION AND DESIGN DEFICIENCY
88-004	01/16/88	02/15/88	REACTOR TRIP BREAKERS OPEN DURING UNIT SHUTDOWN DUE TO A FUSE FAILURE

1. Docket: 50-414                    O P E R A T I N G   S T A T U S  
 2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0  
 3. Utility Contact: J. A. REAVIS (704) 373-7567  
 4. Licensed Thermal Power (Mwt):                    3411  
 5. Nameplate Rating (Gross MWe):                    1305  
 6. Design Electrical Rating (Net MWe):                    1145  
 7. Maximum Dependable Capacity (Gross MWe):                    1145  
 8. Maximum Dependable Capacity (Net MWe):                    1129  
 9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_  
 11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>13,441.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>8,605.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>8,344.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>0</u>	<u>25,727,493</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>9,077,028</u>
19. Net Elec Ener (MWH)	<u>-15,284</u>	<u>-19,620</u>	<u>8,447,077</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>62.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>62.1</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>55.7</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>54.9</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>29.1</u>
25. Forced Outage Hours	<u>36.0</u>	<u>36.0</u>	<u>3,430.0</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

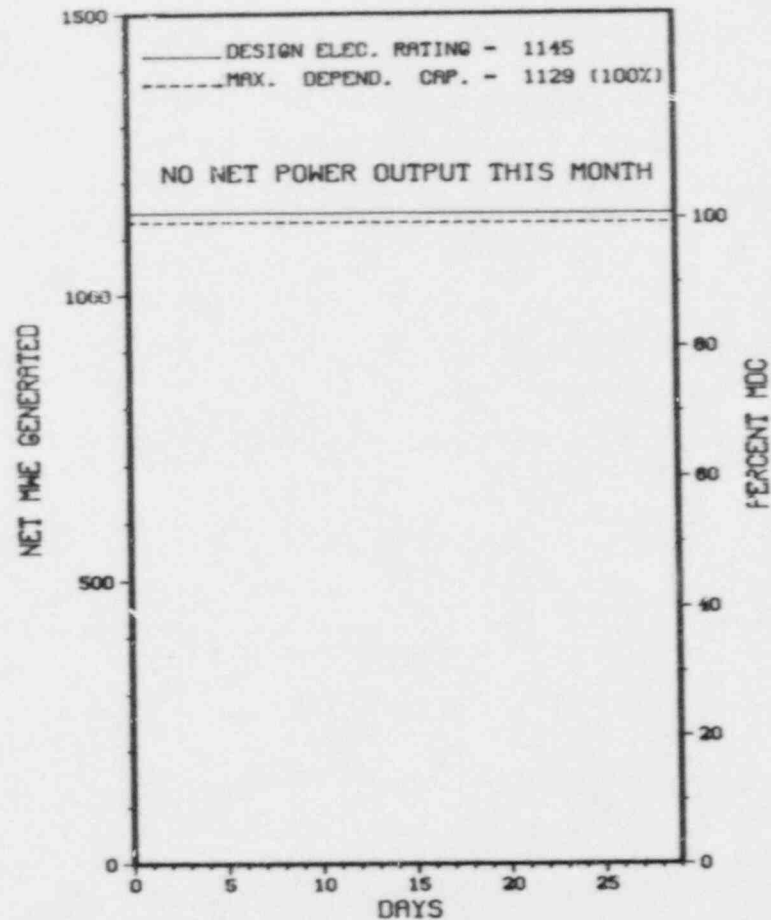
NONE

27. If Currently Shutdown Estimated Startup Date: 03/15/88

\*\*\*\*\*  
 \*                    CATAWBA 2                    \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CATAWBA 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* CATAWBA 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/01/88	S	540.0	C	4		RC	FUELXX	END OF CYCLE 1 REFUELING OUTAGE.
2	02/23/88	S	72.0	A	9		FD	XXXXXX	OUTAGE EXTENSION DUE TO RX BUILDING MANIPULATOR CRANE PROBLEMS.
3	02/26/88	S	48.0	B	9		CH	HTEXCH	ADDITIONAL EDDY CURRENT TESTING OF THE 'A' AND 'D' STEAM GENERATORS.
4	02/28/88	F	36.0	A	9		HH	PUMPXX	OUTAGE OVERRUN DUE TO TURBINE DRIVEN AUXILIARY FEEDWATER PUMP PROBLEMS

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 \* SUMMARY \*  
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 CATAWBA 2 COMPLETED REFUELING OUTAGE IN FEBRUARY.  
 REMAINED SHUTDOWN FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* CATAWBA 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....SOUTH CAROLINA  
COUNTY.....YORK  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...6 MI NNW OF  
ROCK HILL, SC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 8, 1986  
DATE ELEC ENER 1ST GEWER...MAY 18, 1986  
DATE COMMERCIAL OPERATE...AUGUST 19, 1986  
CONDENSER COOLING METHOD...HNDCT  
CONDENSER COOLING WATER...LAKE WYLIE  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUKE POWER  
CORPORATE ADDRESS.....POWER BLDG., BOX 2178  
CHARLOTTE, NORTH CAROLINA 28201  
CONTRACTOR  
ARCHITECT/ENGINEER.....DUKE POWER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DUKE POWER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....P. SKINNER  
LICENSING PROJ MANAGER....K. JABBOUR  
DOCKET NUMBER.....50-414  
LICENSE & DATE ISSUANCE...NPF-52, MAY 15, 1986  
PUBLIC DOCUMENT ROOM.....YORK COUNTY LIBRARY  
138 E. BLACK STREET  
ROCK HILL, SOUTH CAROLINA 29730

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 26, 1987 - JANUARY 25, 1988 (87-44): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF REVIEW OF PLANT OPERATIONS; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS; REVIEW OF LOW TEMPERATURE OVERPRESSURE PROTECTION, REFUELING ACTIVITIES; AND PART 21 REPORTS. OF THE NINE (9) AREAS INSPECTED, TWO APPARENT VIOLATIONS WERE IDENTIFIED IN TWO AREAS. (FAILURE TO FOLLOW PROCEDURE RESULTING IN OPERATION WITHOUT EMERGENCY POWER SUPPLY FOR CONTROL ROOM AREA VENTILATION AND FAILURE TO MAINTAIN AUXILIARY FEEDWATER AUTOMATIC VALVES IN THE FLOW PATH FULLY OPEN.

INSPECTION JANUARY 5-7 AND 19-22 (88-01): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) (UNITS 1 AND 2) AND MAINTENANCE/MODIFICATION WELDING AND NDE (UNIT 2). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 11-15 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) INCLUDING NONDESTRUCTIVE EXAMINATION (NDE) PROCEDURES REVIEW, OBSERVATION OF EXAMINATIONS, INDEPENDENT EXAMINATION VERIFICATIONS, AND ISI DATA REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 12-15 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF THE SNUBBER SURVEILLANCE PROGRAM, REFUELING ACTIVITIES, AND LICENSEE ACTION ON A PREVIOUS INSPECTION FINDINGS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 25-29 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF COMPLEX SURVEILLANCE TESTING, MODIFICATION TESTING, IE BULLETIN FOLLOW-UP, AND LICENSEE EVENT REPORT (LER) REVIEW. ONE VIOLATION WAS IDENTIFIED INVOLVING



1. Docket: 50-461                    O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: F.A. SPANGENBERG (217)935-8881 X3400

4. Licensed Thermal Power (MWT):                    2894

5. Nameplate Rating (Gross MWe):                    \_\_\_\_\_

6. Design Electrical Rating (Net MWe):                    933

7. Maximum Dependable Capacity (Gross MWe):                    933

8. Maximum Dependable Capacity (Net MWe):                    930

9. If Changes Occur Above Since Last Report, Give Reasons: \_\_\_\_\_

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>2,338.3</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>2,338.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>2,338.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,936,404</u>	<u>3,955,535</u>	<u>6,101,035</u>
18. Gross Elec Ener (MWH)	<u>649,105</u>	<u>1,327,511</u>	<u>2,044,161</u>
19. Net Elec Ener (MWH)	<u>623,076</u>	<u>1,273,030</u>	<u>1,957,133</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
22. Unit Cap Factor (MDC Net)	<u>96.3</u>	<u>95.1</u>	<u>90.0</u>
23. Unit Cap Factor (DER Net)	<u>96.0</u>	<u>94.8</u>	<u>89.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>.0</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

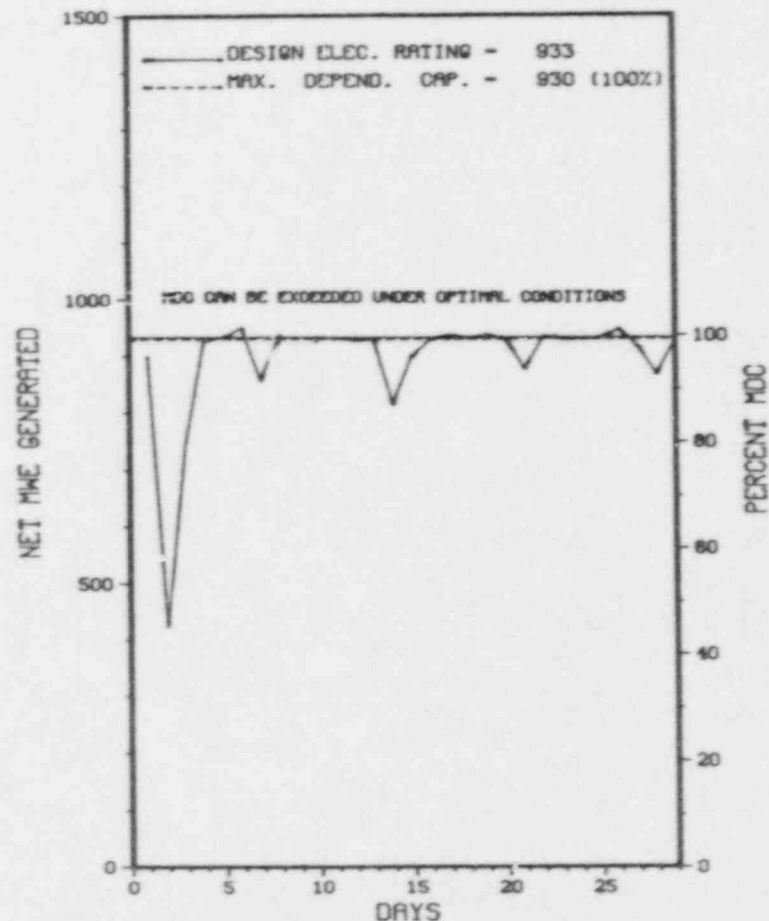
MAINTENANCE - MARCH 19, 1988 - DURATION 38 DAYS.

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 \*                    CLINTON 1                    \*  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CLINTON 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* CLINTON 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	02/01/88	F	0.0	A	5			POWER REDUCED TO APPROXIMATELY 45% OF RATED POWER TO ALLOW REPAIR OF CONDENSER WATER BOX TUBES.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
CLINTON 1 INCURRED 1 POWER REDUCTION IN FEBRUARY TO REPAIR CONDENSER WATER BOX TUBES.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* CLINTON 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....DE WITT  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...6 MI E OF  
CLINTON, ILL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...FEBRUARY 27, 1987  
DATE ELEC ENER 1ST GENER...APRIL 24, 1987  
DATE COMMERCIAL OPERATE...NOVEMBER 24, 1987  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...SALT CREEK  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....ILLINOIS POWER  
CORPORATE ADDRESS.....500 SOUTH 27TH STREET  
DECATUR, ILLINOIS 62525  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BALDWIN ASSOCIATES  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....P. HILAND  
LICENSING PROJ MANAGER.....J. STEVENS  
DOCKET NUMBER.....50-461  
LICENSE & DATE ISSUANCE...NPF-62, APRIL 17, 1987  
PUBLIC DOCUMENT ROOM.....ESPASIAN WARNER PUBLIC LIBRARY  
120 WEST JOHNSON ST.  
CLINTON, IL. 61727

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 25 THROUGH JANUARY 11 (87039): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; IE BULLETIN FOLLOWUP; ONSITE FOLLOWUP OF WRITTEN REPORTS OF NONROUTINE EVENTS AT POWER REACTOR FACILITIES; OPERATIONAL SAFETY VERIFICATION; MONTHLY MAINTENANCE OBSERVATION; MONTHLY SURVEILLANCE OBSERVATION; TRAINING EFFECTIVENESS; ONSITE FOLLOWUP OF EVENTS AT OPERATING REACTORS; REGIONAL REQUESTS; AND MANAGEMENT MEETING. OF THE TEN AREAS INSPECTED, ONE VIOLATION WITH TWO EXAMPLES WAS IDENTIFIED IN THE AREA OF ONSITE FOLLOWUP OF EVENTS. THIS VIOLATION IS RECEIVING LICENSEE MANAGEMENT ATTENTION. IN ADDITION, ONE VIOLATION OF TECHNICAL SPECIFICATIONS WAS IDENTIFIED IN THE AREA OF ONSITE FOLLOWUP OF EVENTS FOR WHICH A NOTICE OF VIOLATION WAS NOT ISSUED IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, PARAGRAPH V (INOPERABLE DRYWELL PRESSURE TRANSMITTERS).

INSPECTION ON JANUARY 11 THROUGH FEBRUARY 17 (88003): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; INFORMATION NOTICE FOLLOWUP; GENERIC LETTER FOLLOWUP; ONSITE FOLLOWUP OF WRITTEN REPORTS OF NONROUTINE EVENTS AT POWER REACTOR FACILITIES; OPERATIONAL SAFETY VERIFICATION; ENGINEERED SAFETY FEATURE SYSTEM WALKDOWN; MONTHLY MAINTENANCE OBSERVATION; MONTHLY SURVEILLANCE OBSERVATION; TRAINING EFFECTIVENESS; ONSITE FOLLOWUP OF EVENTS AT OPERATING REACTORS; REGIONAL REQUESTS; AND MANAGEMENT MEETINGS. OF THE 12 AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED IN THE AREA OF ENGINEERED SAFETY FEATURE SYSTEM WALKDOWN. THIS VIOLATION WAS RECEIVING LICENSEE MANAGEMENT ATTENTION. IN ADDITION, ONE UNRESOLVED ITEM WAS IDENTIFIED IN THE AREA OF ENGINEERED SAFETY FEATURE SYSTEM WALKDOWN. THE UNRESOLVED ITEM CONCERNED INCORRECT PROCEDURAL CHANGES AND WAS RECEIVING LICENSEE MANAGEMENT ATTENTION.



1. Docket: 50-315 OPERATING STATUS
2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0
3. Utility Contact: HIRSCH (616) 465-5901
4. Licensed Thermal Power (Mwt): 3250
5. Nameplate Rating (Gross MWe): 1280 X 0.9 = 1152
6. Design Electrical Rating (Net MWe): 1030
7. Maximum Dependable Capacity (Gross MWe): 1056
8. Maximum Dependable Capacity (Net MWe): 1020
9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE
10. Power Level To Which Restricted, If Any (Net MWe): 920
11. Reasons for Restrictions, If Any:

ADMINISTRATIVE

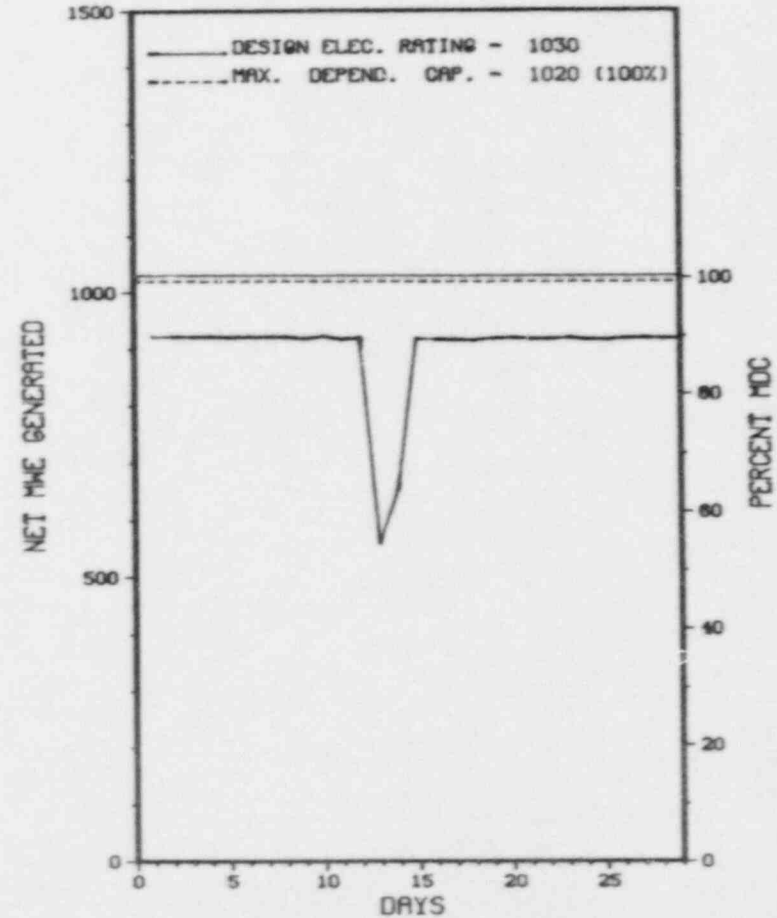
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>115,392.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,419.8</u>	<u>83,256.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>463.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,413.5</u>	<u>81,650.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>321.0</u>
17. Gross Therm Ener (MWH)	<u>1,997,614</u>	<u>4,074,586</u>	<u>237,065,956</u>
18. Gross Elec Ener (MWH)	<u>650,850</u>	<u>1,329,150</u>	<u>77,473,820</u>
19. Net Elec Ener (MWH)	<u>625,430</u>	<u>1,277,684</u>	<u>74,508,682</u>
20. Unit Service Factor	<u>100.0</u>	<u>98.2</u>	<u>72.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>98.2</u>	<u>72.0</u>
22. Unit Cap Factor (MDC Net)	<u>88.1</u>	<u>87.0</u>	<u>64.4</u>
23. Unit Cap Factor (DER Net)	<u>87.2</u>	<u>86.1</u>	<u>62.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.8</u>	<u>8.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>26.5</u>	<u>6,644.7</u>

26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):  
SURVEILLANCE OUTAGE - MARCH 26, 1988 - 10 DAY DURATION
27. If Currently Shutdown Estimated Startup Date: P/A

\*\*\*\*\*  
\* COOK 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOK 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* COOK 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
267	02/12/88	S	0.0	A	5		HH	PIPEXA	A PLANNED POWER REDUCTION TO 55% REACTOR POWER TO REPAIR A LEAK ON THE EAST MAIN FEED PUMP EMERGENCY LEAK OFF LINE ELBOW OCCURRED ON 2/12/88 AT 2339. POWER WAS RESTORED TO 90% AS OF 2125 ON 2/14/88.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 COOK 1 INCURRED 1 POWER REDUCTION IN FEBRUARY AS STATED ABOVE WHILE OPERATING AT AN ADMINISTRATIVELY IMPOSED RESTRICTION OF 90% POWER.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* COOK 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MICHIGAN  
COUNTY.....BERRIEN  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...11 MI S OF  
BENTON HARBOR, MI  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JANUARY 18, 1975  
DATE ELEC ENER 1ST GENER...FEBRUARY 10, 1975  
DATE COMMERCIAL OPERATE...AUGUST 27, 1975  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....INDIANA MICHIGAN POWER CO.  
CORPORATE ADDRESS.....1 RIVERSIDE PLAZA  
COLUMBUS, OHIO 43216  
CONTRACTOR  
ARCHITECT/ENGINEER.....AMERICAN ELEC. POWER SERVICE CORP.  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....AMERICAN ELEC. POWER SERVICE CORP.  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....B. JORGENSEN  
LICENSING PROJ MANAGER.....J. STANG  
DOCKET NUMBER.....50-315  
LICENSE & DATE ISSUANCE...DPR-58, OCTOBER 25, 1974  
PUBLIC DOCUMENT ROOM.....MAUDE PRESTON PALENSKE MEMORIAL LIBRARY  
500 MARKET STREET  
ST. JOSEPH, MICHIGAN 49085

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 11 THROUGH DECEMBER 14 (87031, 87031): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT AND REGION III INSPECTORS OF: ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; OPERATIONAL SAFETY VERIFICATION; RADIOLOGICAL CONTROLS; MAINTENANCE; SURVEILLANCE; FIRE PROTECTION; SECURITY; REPORTABLE EVENTS; BULLETINS, NOTICES AND GENERIC LETTERS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN ANY AREAS INSPECTED.

INSPECTION ON SEPTEMBER 21 THROUGH DECEMBER 23 (87028, 87028): ROUTINE, UNANNOUNCED, SAFETY INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS (92701), CONTROL ROD TESTING (72700), SHUTDOWN MARGIN/ESTIMATED CRITICAL CONDITION CALCULATION (61707), CONTROL ROD WORTH MEASUREMENTS (61710), CORE POWER DISTRIBUTION LIMITS (61702), CORE THERMAL POWER EVALUATION (61706), AND ISOTHERMAL AND MODERATOR TEMPERATURE COEFFICIENT DETERMINATIONS (61708). OF THE SIX AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN FOUR AREAS, AND TWO VIOLATIONS WERE IDENTIFIED IN THE REMAINING TWO AREAS. ONE VIOLATION IS FOR FAILURE TO PERFORM A TECHNICAL SPECIFICATION SURVEILLANCE, WHICH IS IDENTIFIED AS AN EXAMPLE TO A PREVIOUS VIOLATION. THE SECOND VIOLATION IS FOR FAILURE TO PROPERLY IMPLEMENT A PROCEDURE.

INSPECTION ON JANUARY 19-21 AND 27-28 (88004, 88005): ROUTINE, ANNOUNCED INSPECTION OF LICENSEE'S ACTIONS ON PREVIOUS INSPECTION FINDINGS IN ACCORDANCE WITH INSPECTION MODULES 92701 AND 92702. ONE VIOLATION WAS IDENTIFIED (FAILURE TO PERFORM A SAFETY EVALUATION). OF 14 INSPECTION FINDINGS AND OBSERVATIONS REVIEWED, 14 WERE CLOSED.

INSPECTION ON JANUARY 19-20 (88005, 88006): INCLUDED MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; PHYSICAL BARRIER - PROTECTED AREA; COMPENSATORY MEASURES; AND PERSONNEL TRAINING AND QUALIFICATIONS. ONE VIOLATION WAS IDENTIFIED RELATIVE TO

INSPECTION SUMMARY

INEFFECTIVE IMPLEMENTATION OF COMPENSATORY MEASURES. A CONCERN WAS ALSO IDENTIFIED REGARDING THE LICENSEE FAILURE TO ADEQUATE ADDRESS AN ADVERSE TREND OF POOR GUARD FORCE PERFORMANCE.

INSPECTION ON DECEMBER 15 THROUGH JANUARY 26 (88002, 88003): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTORS OF: ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; PLANT OPERATIONS; REACTOR TRIPS; RADIOLOGICAL CONTROLS; MAINTENANCE; SURVEILLANCE; FIRE PROTECTION; SECURITY; OUTAGES; MANAGEMENT PROGRAMS; REPORTABLE EVENTS; AND BULLETINS, NOTICES AND GENERIC LETTERS. OF THE TWELVE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN ANY AREAS.

INSPECTION ON DECEMBER 3, JANUARY 15, FEBRUARY 4-15 (88002): ROUTINE, UNANNOUNCED SAFETY INSPECTION OF THE PROCEDURES, PERSONNEL QUALIFICATIONS, AND RESULTS OF THE UNIT 2 EDDY CURRENT EXAMINATION OF THE STEAM GENERATORS (73755) AND THE AUXILIARY BUILDING CRANE UPGRADE FOR STEAM GENERATOR REPLACEMENT (37702). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATIONS, SECTION 6.8.1.C, STATES THAT WRITTEN PROCEDURES COVERING, AMONG OTHER THINGS, SURVEILLANCE AND TEST ACTIVITIES OF SAFETY RELATED EQUIPMENT SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED. PROCEDURE, \*\*1 THP 6040 PER.352, "ROD WORTH VERIFICATION UTILIZING RCC BANK INTERCHANGE" INVOLVES TESTING OF CONTROL RODS WHICH ARE SAFETY RELATED EQUIPMENT. STEP 8.2.5 OF THIS PROCEDURE STATES, IN PART, THAT FOUR BORON SAMPLES BE OBTAINED AND RECORDED ON FORM NO. 352-3. CONTRARY TO THE ABOVE, PROCEDURE \*\*1 THP 6040 PER.352 WAS NOT IMPLEMENTED PROPERLY FOR UNIT 1 ON OCTOBER 6, 1987, IN THAT THE BORON SAMPLES WERE NOT RECORDED ON FORM NO.352-3.

TECHNICAL SPECIFICATIONS, SECTION 6.8.1.C, STATES THAT WRITTEN PROCEDURES COVERING, AMONG OTHER THINGS, SURVEILLANCE AND TEST ACTIVITIES OF SAFETY RELATED EQUIPMENT SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED. PROCEDURE, \*\*1 THP 6040 PER.352, "ROD WORTH VERIFICATION UTILIZING RCC BANK INTERCHANGE" INVOLVES TESTING OF CONTROL RODS WHICH ARE SAFETY RELATED EQUIPMENT. STEP 8.2.5 OF THIS PROCEDURE STATES, IN PART, THAT FOUR BORON SAMPLES BE OBTAINED AND RECORDED ON FORM NO. 352-3. CONTRARY TO THE ABOVE, PROCEDURE \*\*1 THP 6040 PER.352 WAS NOT IMPLEMENTED PROPERLY FOR UNIT 1 ON OCTOBER 6, 1987, IN THAT THE BORON SAMPLES WERE NOT RECORDED ON FORM NO.352-3.

(8702 5)

OTHER ITEMS

## SYSTEMS AND COMPONENT PROBLEMS:

NONE

## FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

## MANAGERIAL ITEMS:

THE ASSISTANT PLANT MANAGER, ENGINEERING IS ACTING FOR THE TECHNICAL SUPERINTENDENT, PHYSICAL SCIENCE RADIATION PROTECTION MANAGER

## PLANT STATUS:

THE UNIT OPERATED NORMALLY THROUGHOUT THE MONTH.



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1. Decklet: 20-316 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: HIRSCH (616) 465-5901  
 4. Licensed Thermal Power (MWT): 3.21  
 5. Nameplate Rating (Gross MWe): 1353 X 0.85 = 1133  
 6. Design Electrical Rating (Net MWe): 1100  
 7. Maximum Dependable Capacity (Gross MWe): 1100  
 8. Maximum Dependable Capacity (Net MWe): 1060  
 9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): 864  
 11. Reasons for Restrictions, If Any: \_\_\_\_\_

ADMINISTRATIVE

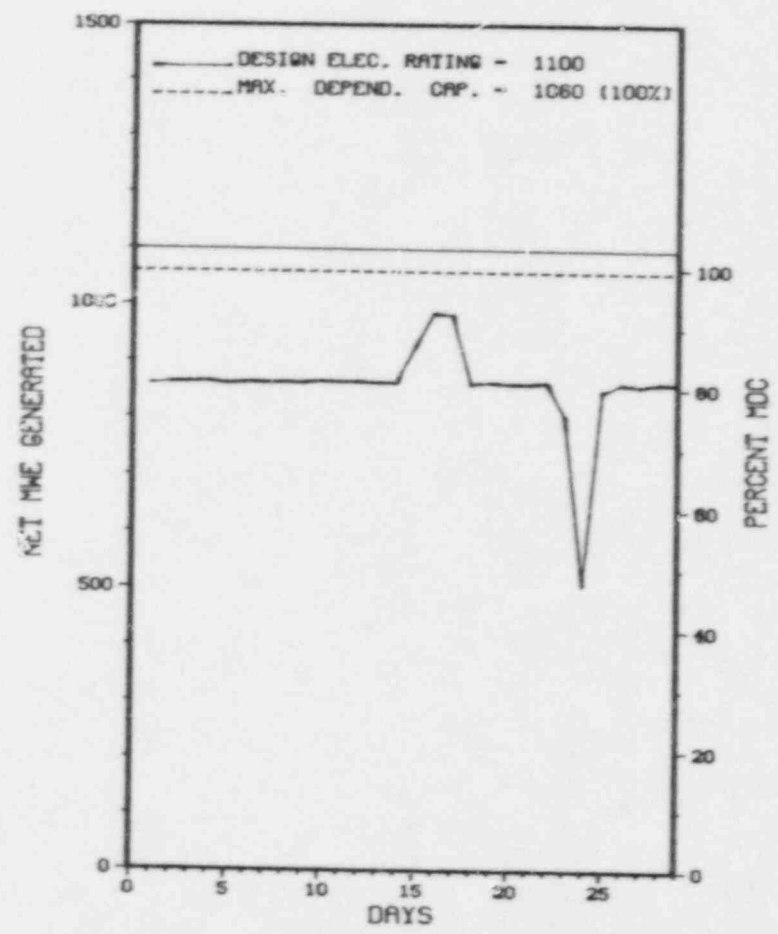
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>89,088.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>62,312.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>60,935.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2.2</u>
17. Gross Therm Ener (MWH)	<u>1,900,060</u>	<u>3,939,874</u>	<u>188,519,112</u>
18. Gross Elec Ener (MWH)	<u>622,010</u>	<u>1,289,480</u>	<u>60,765,920</u>
19. Net Elec Ener (MWH)	<u>597,526</u>	<u>1,238,718</u>	<u>58,502,199</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>70.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>70.3</u>
22. Unit Cap Factor (MDC Net)	<u>81.0</u>	<u>81.2</u>	<u>63.7</u>
23. Unit Cap Factor (DER Net)	<u>78.0</u>	<u>78.2</u>	<u>62.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,497.2</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
S.G. REPLACEMENT APRIL 23, 1988 - DURATION 225 DAYS.

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X COOK 2 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
 COOK 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* COOK 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
188	02/23/88	S	0.0	A	5		HH	PIPEXA	ON 2-23-88 AT 1706. A REACTOR POWER REDUCTION TO APPROXIMATELY 50% REACTOR POWER WAS INITIATED TO PERMIT CORRECTIVE MAINTENANCE ON THE EAST MAIN FEED PUMP SUCTION STRAINER VENT LINE. THE UNIT REACHED 51.5% REACTOR POWER AT 2315 ON 2-23-88. AT 2125 ON 2-24-88 OPERATORS BEGAN INCREASING POWER TO 80% WHICH WAS REACHED AT 0335 ON 2-25-88.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 COOK 2 OPERATED AT A NOMINAL 80% ADMINISTRATIVELY IMPOSED POWER LEVEL DURING FEBRUARY INCURRING ONE POWER REDUCTION.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* COOK 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MICHIGAN  
COUNTY.....BERRIEN  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...11 MI S OF  
BENTON HARBOR, MI  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MARCH 10, 1978  
DATE ELEC ENER 1ST GENER...MARCH 22, 1978  
DATE COMMERCIAL OPERATE...JULY 1, 1978  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....INDIANA MICHIGAN POWER CO.  
CORPORATE ADDRESS.....1 RIVERSIDE PLAZA  
COLUMBUS, OHIO 43216  
CONTRACTOR  
ARCHITECT/ENGINEER.....AMERICAN ELEC. POWER SERVICE CORP.  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....J. A. JONES CONSTRUCTION  
TURBINE SUPPLIER.....BROWN BOVERI

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....B. JORGENSEN  
LICENSING PROJ MANAGER.....J. STANG  
DOCKET NUMBER.....50-316  
LICENSE & DATE ISSUANCE...DPR-74, DECEMBER 23, 1977  
PUBLIC DOCUMENT ROOM.....MAUDE PRESTON PALENSKE MEMORIAL LIBRARY  
500 MARKET STREET  
ST. JOSEPH, MICHIGAN 49085

INSPECTION SUMMARY

I N S P E C T I O N   S T A T U S

INSPECTION ON NOVEMBER 11 THROUGH DECEMBER 14 (87031, 87031): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT AND REGION III INSPECTORS OF: ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; OPERATIONAL SAFETY VERIFICATION; RADIOLOGICAL CONTROLS; MAINTENANCE; SURVEILLANCE; FIRE PROTECTION; SECURITY; REPORTABLE EVENTS; BULLETINS, NOTICES AND GENERIC LETTERS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN ANY AREAS INSPECTED.

INSPECTION ON SEPTEMBER 21 THROUGH DECEMBER 23 (87028, 87028): ROUTINE, UNANNOUNCED, SAFETY INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS (92701), CONTROL ROD TESTING (72700), SHUTDOWN MARGIN/ESTIMATED CRITICAL CONDITION CALCULATION (61707), CONTROL ROD WORTH MEASUREMENTS (61710), CORE POWER DISTRIBUTION LIMITS (61702), CORE THERMAL POWER EVALUATION (61706), AND ISOTHERMAL AND MODERATOR TEMPERATURE COEFFICIENT DETERMINATIONS (61708). OF THE SIX AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN FOUR AREAS, AND TWO VIOLATIONS WERE IDENTIFIED IN THE REMAINING TWO AREAS. ONE VIOLATION IS FOR FAILURE TO PERFORM A TECHNICAL SPECIFICATION SURVEILLANCE, WHICH IS IDENTIFIED AS AN EXAMPLE TO A PREVIOUS VIOLATION. THE SECOND VIOLATION IS FOR FAILURE TO PROPERLY IMPLEMENT A PROCEDURE.

INSPECTION ON JANUARY 19-21 AND 27-28 (88004, 88005): ROUTINE, ANNOUNCED INSPECTION OF LICENSEE'S ACTIONS ON PREVIOUS INSPECTION FINDINGS IN ACCORDANCE WITH INSPECTION MODULES 92701 AND 92702. ONE VIOLATION WAS IDENTIFIED (FAILURE TO PERFORM A SAFETY EVALUATION). OF 14 INSPECTION FINDINGS AND OBSERVATIONS REVIEWED, 14 WERE CLOSED.

INSPECTION ON JANUARY 19-20 (88005, 88006): INCLUDED MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; PHYSICAL BARRIER - PROTECTED AREA; COMPENSATORY MEASURES; AND PERSONNEL TRAINING AND QUALIFICATIONS. ONE VIOLATION WAS IDENTIFIED RELATIVE TO



1. Docket: 50-290                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: J. T. SCHEVERMAN (402) 825-3811

4. Licensed Thermal Power (MWt):                      2381

5. Nameplate Rating (Gross MWe):                      983 X 0.85 = 836

6. Design Electrical Rating (Net MWe):                      778

7. Maximum Dependable Capacity (Gross MWe):                      787

8. Maximum Dependable Capacity (Net MWe):                      764

9. If Changes Occur Above Since Last Report, Give Reasons: NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>119,809.0</u>
13. Hours Reactor Critical	<u>529.3</u>	<u>1,196.5</u>	<u>91,203.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>513.5</u>	<u>1,180.7</u>	<u>89,725.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,024,032</u>	<u>2,440,272</u>	<u>177,070,979</u>
18. Gross Elec Ener (MWH)	<u>338,681</u>	<u>809,032</u>	<u>56,868,113</u>
19. Net Elec Ener (MWH)	<u>325,983</u>	<u>779,499</u>	<u>54,808,123</u>
20. Unit Service Factor	<u>73.8</u>	<u>82.0</u>	<u>74.9</u>
21. Unit Avail Factor	<u>73.8</u>	<u>82.0</u>	<u>74.9</u>
22. Unit Cap Factor (MDC Net)	<u>61.3</u>	<u>70.9</u>	<u>59.9</u>
23. Unit Cap Factor (DER Net)	<u>60.2</u>	<u>69.6</u>	<u>58.8</u>
24. Unit Forced Outage Rate	<u>26.2</u>	<u>18.0</u>	<u>4.9</u>
25. Forced Outage Hours	<u>182.5</u>	<u>259.3</u>	<u>3,953.6</u>

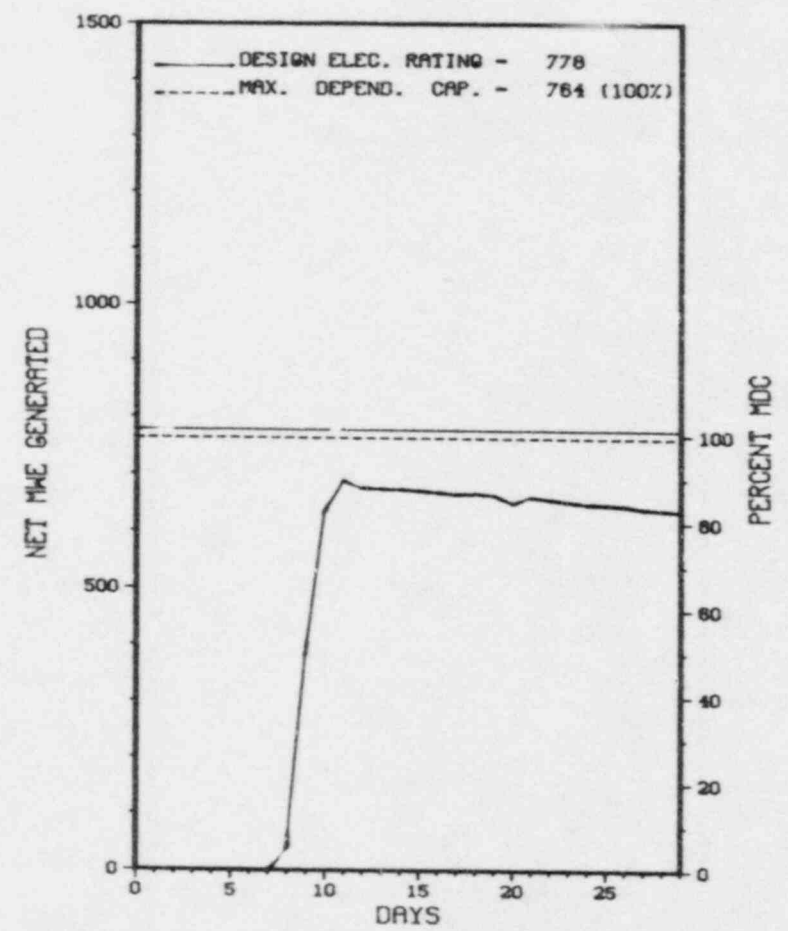
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING/MAINTENANCE - MARCH 5, 1988 - DURATION OF 8 WEEK

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* COOPER STATION \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOPER STATION



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* COOPER STATION \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	01/28/88	F	182.5	A	4	88-002	AD	MG	HIGH FLUX SCRAM, DURING REACTOR RECIRCULATION PUMP 1B RESTART, DUE TO LOSS OF START SEQUENCE RUNBACK SIGNAL. FOUND LOOSE LIMIT SWITCH CAM; REPOSITIONED AND SECURED CAM WITH SUITABLE LOCKING DEVICE. RESIDUAL HEAT REMOVAL PUMP 1B INOPERABLE DUE TO MOTOR GROUND FAULT. MOTOR REPLACED AND TESTING PERFORMED ON IDENTICAL UNITS. (LER 88-003). OUTAGE INITIATED BY REACTOR RECIRCULATION AND EXTENDED BY RESIDUAL HEAT REMOVAL.

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 \* SUMMARY \*  
 \*\*\*\*\*  
 COOPER NUCLEAR STATION ENTERED FEBRUARY SHUTDOWN BECAUSE OF EQUIPMENT FAILURE. RESUMED POWER ON THE 8TH AND NORMAL COASTDOWN OPERATION CONTINUED FOR THE REMAINDER OF THE MONTH.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* COOPER STATION \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEBRASKA  
COUNTY.....NEMAHA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...23 MI S OF  
NEBRASKA CITY, NEB  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...FEBRUARY 21, 1974  
DATE ELEC ENER 1ST GENER...MAY 10, 1974  
DATE COMMERCIAL OPERATE...JULY 1, 1974  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...MISSOURI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-CONTINENT AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NEBRASKA PUBLIC POWER DISTRICT  
CORPORATE ADDRESS.....P.O. BOX 499  
COLUMBUS, NEBRASKA 68601  
CONTRACTOR  
ARCHITECT/ENGINEER.....BURNS & ROE  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BURNS & ROE  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV  
IE RESIDENT INSPECTOR.....D. DUBOIS  
LICENSING PROJ MANAGER....W. LONG  
DGCKET NUMBER.....50-298  
LICENSE & DATE ISSUANCE...DPR-46, JANUARY 18, 1974  
PUBLIC DOCUMENT ROOM.....AUBURN PUBLIC LIBRARY  
1118 15TH STREET  
AUBURN, NEBRASKA 68305

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION CONDUCTED DEC.22, - JAN.31, 1988 (87-33) ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY FEATURE WALKDOWN, PREPARATION FOR REFUELING, MONTHLY SURVEILLANCE AND MAINTENANCE OBSERVATIONS, NRC BULLETIN 87-02, RADIOLOGICAL PROTECTION, AND SECURITY. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JAN.4-8, 1988 (88-02) ROUTINE, UNANNOUNCED INSPECTION OF KNOWLEDGE AND PERFORMANCE OF DUTIES, LICENSEE AUDITS, AND OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM. WITHIN THE AREAS INSPECTED, TWO VIOLATIONS AND ONE DEVIATION WERE IDENTIFIED.

ENFORCEMENT SUMMARY

FAILURE TO MAINTAIN ADEQUATE VITAL AREA ACCESS CONTROLS AND ACCOUNTABILITY - I.E. IMPROPER ISSUANCE OF VITAL AREA KEY CARDS. SAFEGUARDS INFO. (8702 3)

INADEQUATE KEY CONTROLS. SAFEGUARDS INFO. (8702 4)

Report Period FEB 1988

I N S P E C T I O N    S T A T U S    -    (CONTINUED)

\*\*\*\*\*  
\*                    COOPER STATION                    \*  
\*\*\*\*\*

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50.59, THE LICENSEE IMPROPERLY ANALYZED CHANGES MADE TO ITS FACILITY, AS DESCRIBED IN THE USAR, AND CONCLUDED THAT AN UNREVIEWED SAFETY QUESTION DID NOT EXIST, WHEN IN FACT, AN UNREVIEWED SAFETY QUESTION DID EXIST.  
(8703 3)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

NORMAL POWER OPERATION

LAST IE SITE INSPECTION DATE: JAN. 31, 1988

INSPECTION REPORT NO: 50-298/87-33

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/05/88	01/27/88	HUMAN FACTOR DISCREPANCY WHICH CAUSED AN UNPLANNED DIESEL GENERATOR ACTUATION WHILE VERIFYING ELECTRICAL SCHEMATIC DRAWINGS



1. Docket: 50-302                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: D. GRAHAM (904) 795-3802

4. Licensed Thermal Power (MWt):                      2544

5. Nameplate Rating (Gross MWe):                      989 X 0.9 = 890

6. Design Electrical Rating (Net MWe):                      825

7. Maximum Dependable Capacity (Gross MWe):                      860

8. Maximum Dependable Capacity (Net MWe):                      821

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>96,144.0</u>
13. Hours Reactor Critical	<u>659.8</u>	<u>1,215.1</u>	<u>60,541.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,275.5</u>
15. Hrs Generator On-Line	<u>659.8</u>	<u>1,177.2</u>	<u>59,193.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,658,824</u>	<u>2,784,155</u>	<u>132,531,323</u>
18. Gross Elec Ener (MWH)	<u>574,992</u>	<u>959,018</u>	<u>45,333,133</u>
19. Net Elec Ener (MWH)	<u>548,110</u>	<u>911,540</u>	<u>43,045,122</u>
20. Unit Service Factor	<u>94.8</u>	<u>81.8</u>	<u>61.5</u>
21. Unit Avail Factor	<u>94.8</u>	<u>81.8</u>	<u>61.6</u>
22. Unit Cap Factor (MDC Net)	<u>95.9</u>	<u>77.1</u>	<u>51.5</u>
23. Unit Cap Factor (DER Net)	<u>95.5</u>	<u>76.7</u>	<u>54.3</u>
24. Unit Forced Outage Rate	<u>5.2</u>	<u>3.0</u>	<u>23.0</u>
25. Forced Outage Hours	<u>36.2</u>	<u>36.2</u>	<u>17,671.2</u>

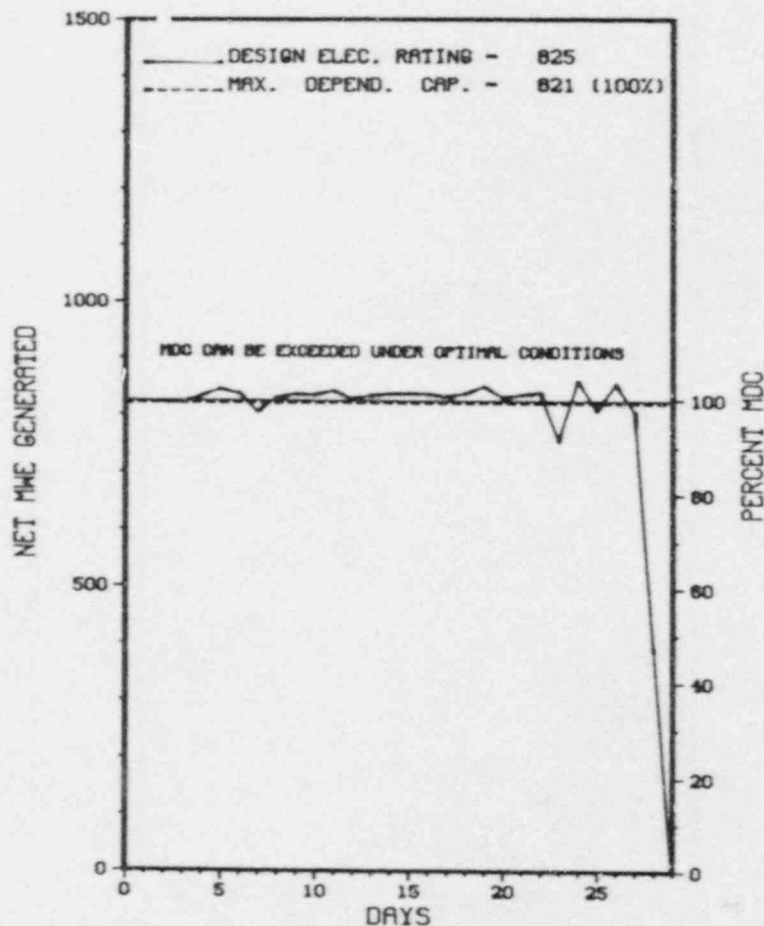
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: 03/03/88

\*\*\*\*\*  
\*                      CRYSTAL RIVER 3                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CRYSTAL RIVER 3



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* CRYSTAL RIVER 3 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-2	02/23/88	F	0.0	A	5		HC	HTEXCH	REDUCED POWER TO LOCATE AND REPAIR A CONDENSER SALT WATER LEAK IN THE 'B' WATERBOX. PLUGGED ONE TUBE.
88-3	02/28/88	F	36.2	A	3	88-006	CH	VALVOP	WHILE DECREASING POWER TO TROUBLESHOOT VOLTAGE REGULATOR FOR MAIN GENERATOR, THE UNIT TRIPPED DUE TO FAILURE OF THE MAIN FEEDWATER BLOCK VALVE TO THE 'B' STEAM GENERATOR TO FULLY CLOSE. THE RESULTING FEEDWATER UPSET CAUSED THE TRIP (HIGH RCS PRESSURE). THE FAILURE OF THE VALVE WAS CAUSED BY A BROKEN STEM NUT IN THE LIMITORQUE OPERATOR.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 CRYSTAL RIVER 3 INCURRED 1 OUTAGE AND 1 POWER REDUCTION IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training & License Examination	5-Reduced Load	Licensee Event Report
		9-Other	(LER) Form (NUREG-0161)

\*\*\*\*\*  
\* CRYSTAL RIVER 3 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....FLORIDA  
  
COUNTY.....CITRUS  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...7 MI NW OF  
CRYSTAL RIVER, FLA  
  
TYPE OF REACTOR.....PWR  
  
DATE INITIAL CRITICALITY...JANUARY 14, 1977  
DATE ELEC ENER 1ST GENER...JANUARY 30, 1977  
DATE COMMERCIAL OPERATE...MARCH 13, 1977  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...GULF OF MEXICO  
  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....FLORIDA POWER CORPORATION  
  
CORPORATE ADDRESS.....3201 34TH STREET, SOUTH  
ST PETERSBURG, FLORIDA 33733  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES  
  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
  
CONSTRUCTOR.....J. A. JONES CONSTRUCTION  
  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
  
IE RESIDENT INSPECTOR.....T. STETKA  
  
LICENSING PROJ MANAGER.....H. SILVER  
DOCKET NUMBER.....50-302  
  
LICENSE & DATE ISSUANCE....DPR-72, JANUARY 28, 1977  
  
PUBLIC DOCUMENT ROOM.....CRYSTAL RIVER PUBLIC LIBRARY  
668 N.W. FIRST  
CRYSTAL RIVER, FLORIDA 32629

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 13 - DECEMBER 15 (87-40): THIS ROUTINE INSPECTION WAS CONDUCTED BY TWO RESIDENT INSPECTORS IN THE AREAS OF PLANT OPERATIONS, SECURITY, RADIOLOGICAL CONTROLS, LICENSEE EVENT REPORTS AND NONCONFORMING OPERATIONS REPORTS, FACILITY MODIFICATIONS, REFUELING ACTIVITIES, REVIEW OF SPECIAL REPORTS, REVIEW OF 10 CFR PART 21 EVALUATIONS, NRC ENFORCEMENT BULLETIN REVIEW, AND LICENSEE ACTION ON PREVIOUS INSPECTION ITEMS. NUMEROUS FACILITY TOURS WERE CONDUCTED AND FACILITY OPERATIONS OBSERVED. SOME OF THESE TOURS AND OBSERVATIONS WERE CONDUCTED ON BACKSHIFTS. ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED: FAILURE TO ADHERE TO PLANT PROCEDURES; FAILURE TO INSTALL INSTRUMENT RECORDERS AS COMMITTED TO MEET REGULATORY GUIDE.

INSPECTION JANUARY (87-42): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF NON-LICENSED STAFF TRAINING, LICENSED OPERATOR TRAINING AND IMPLEMENTATION OF GENERIC LETTER NO. 81-21, NATURAL CIRCULATION COOLDOWN. ONE APPARENT VIOLATION IN THE AREA OF LICENSED OPERATOR REQUALIFICATION TRAINING WAS IDENTIFIED, AS WELL AS THREE INSPECTOR FOLLOW-UP ITEMS FOR NATURAL CIRCULATION COOLDOWN. BECAUSE THIS VIOLATION IS IN AN AREA ADDRESSED BY INPO ACCREDITATION OF TRAINING PROGRAMS, NRC POLICY IS THAT NO NOTICE OF VIOLATION WILL BE ISSUED.

INSPECTION JANUARY 5-7 (88-03): THIS WAS A SPECIAL, UNANNOUNCED INSPECTION TO REVIEW THE CIRCUMSTANCES SURROUNDING A RADIATION WORKER'S ENTRY INTO A HIGH RADIATION AREA WITHOUT A RADIATION MONITORING DEVICE TO CONTINUOUSLY INDICATE THE RADIATION DOSE RATE. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO HAVE A RADIATION DOSE RATE INSTRUMENT UPON ENTRY INTO A HIGH RADIATION AREA, AND; FAILURE TO PROVIDE AND IMPLEMENT ADEQUATE PROCEDURES FOR PROMPT CORRECTIVE ACTION FOR RADIATION SAFETY VIOLATIONS AND FAILURE TO FOLLOW RADIOLOGICAL CONTROL PROCEDURES.

INSPECTION SUMMARY

INSPECTION JANUARY 11-14 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) OF PUMP AND VALVES INCLUDING ADMINISTRATIVE CONTROL PROCEDURES, SURVEILLANCE PROCEDURES AND DATA ANALYSIS. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION JANUARY 11-15 (88-05): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF VERIFICATION OF CONFIRMATION OF ACTION LETTER (CAL) ITEMS IDENTIFIED IN THE CAL OF NOVEMBER 17, 1987 AND REVIEW OF MODIFICATIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS.

LAST IE SITE INSPECTION DATE: JANUARY 11-15, 1988 +

INSPECTION REPORT NO: 50-302/88-05 +

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE.			

1. Docket: 50-346                    O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: MORTEZA KHARZRAI (419) 249-5000 X7290

4. Licensed Thermal Power (MWT):                    2772

5. Nameplate Rating (Gross MWe):                    1069 X 0.9 = 962

6. Design Electrical Rating (Net MWe):                    906

7. Maximum Dependable Capacity (Gross MWe):                    904

8. Maximum Dependable Capacity (Net MWe):                    860

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): 697

11. Reasons for Restrictions, If Any: \_\_\_\_\_

ADMINISTRATIVE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>84,025.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>44,921.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,050.1</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,359.5</u>	<u>43,160.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,732.7</u>
17. Gross Therm Ener (MWH)	<u>1,458,959</u>	<u>2,924,571</u>	<u>100,886,769</u>
18. Gross Elec Ener (MWH)	<u>476,145</u>	<u>949,145</u>	<u>33,324,948</u>
19. Net Elec Ener (MWH)	<u>446,078</u>	<u>886,963</u>	<u>31,187,610</u>
20. Unit Service Factor	<u>100.0</u>	<u>94.4</u>	<u>51.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>94.4</u>	<u>53.4</u>
22. Unit Cap Factor (MDC Net)	<u>74.5</u>	<u>71.6</u>	<u>43.1</u>
23. Unit Cap Factor (DER Net)	<u>70.7</u>	<u>68.0</u>	<u>40.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>32.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>21,470.0</u>

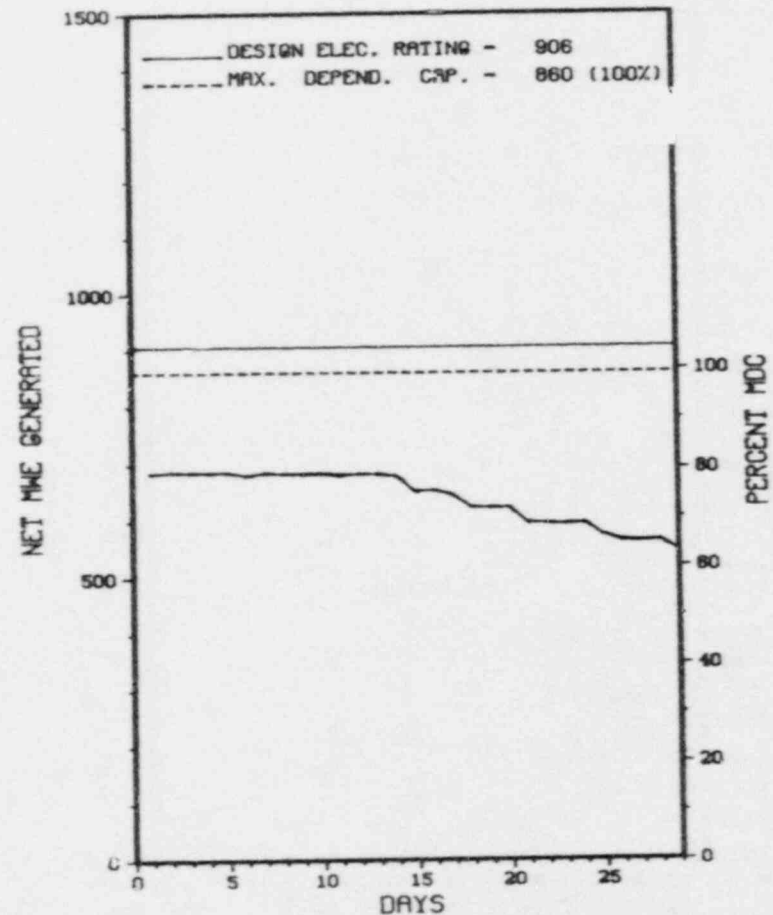
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

REFUELING - MARCH 10, 1988 - 26 WEEKS DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                    DAVIS-BESSE 1                    \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
DAVIS-BESSE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XX  
\* DAVIS-BESSE 1 \*  
XX

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

XXXXXXXXXX DAVIS-BESSE 1 OPERATED ROUTINELY AT AN ADMINISTRATIVELY  
\* SUMMARY \* IMPOSED RESTRICTED POWER LEVEL IN FEBRUARY WITH NO OUTAGES.  
XXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* DAVIS-BESSE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....OHIO  
COUNTY.....OTTAWA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...21 MI E OF  
TOLEDO, OH  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 12, 1977  
DATE ELEC ENER 1ST GENER...AUGUST 28, 1977  
DATE COMMERCIAL OPERATE....JULY 31, 1978  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER....LAKE ERIE  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....TOLEDO EDISON  
CORPORATE ADDRESS.....300 MADISON AVENUE  
TOLEDO, OHIO 43652  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....P. BYRON  
LICENSING PROJ MANAGER.....A. DEGAZIO  
DOCKET NUMBER.....50-346  
LICENSE & DATE ISSUANCE....NPF-3, APRIL 22, 1977  
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF TOLEDO LIBRARY  
GOVERNMENT DOCUMENTS COLLECTION  
2801 WEST BANCROFT AVENUE  
TOLEDO, OHIO 43606

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION FROM DECEMBER 9 THROUGH JANUARY 8 (88004): SPECIAL ANNOUNCED INSPECTION OF ACTIVITIES WITH REGARD TO AN ALLEGATION. TWO VIOLATIONS WERE IDENTIFIED (FAILURE TO FOLLOW PROCEDURES AND FAILURE TO TAKE PROMPT AND EFFECTIVE CORRECTIVE ACTIONS AFTER THE PROCEDURAL VIOLATION HAD BEEN IDENTIFIED BY THE QUALITY ORGANIZATION.

INSPECTION ON OCTOBER 19-23 AND JANUARY 5 (87027): ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, AND A LIMITED SCOPE FIRE PROTECTION PROGRAM REVIEW INCLUDING A SELECTED REVIEW OF THE FIRE PROTECTION ORGANIZATION, ADMINISTRATIVE CONTROLS AND FIRE PROTECTION SYSTEM PREVENTIVE MAINTENANCE PROGRAM. OF THE FIVE AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED IN TWO AREAS, THREE VIOLATIONS WERE IDENTIFIED IN THE REMAINING AREAS (MAINTENANCE PROCEDURE NO. MP 1405.07 DID NOT REQUIRE A DESIGN REVIEW FOR PROPOSED MODIFICATIONS INVOLVING FIRE DAMPERS; NO SPECIAL REPORT WAS SUBMITTED FOR AN OUT OF SERVICE FIRE DETECTION ZONE INSTRUMENTATION; AND FOUR DEFICIENCIES OF THE PLANT FIRE PROTECTION LICENSE CONDITION). INSPECTION ON JANUARY 11-15 (88003): SECURITY PLAN/IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; PERSONNEL TRAINING AND QUALIFICATIONS; SAFEGUARDS CONTINGENCY PLAN; PROTECTION OF SAFEGUARDS INFORMATION AND LICENSEE ACTION ON PREVIOUS FINDINGS. THREE OF FOUR PREVIOUS FINDINGS WERE CLOSED. THE FOURTH FINDING, WHICH INVOLVED IMPROVEMENTS TO THE SURVEILLANCE SYSTEM, SHOULD BE COMPLETED SOON. THE LICENSEE WAS IN COMPLIANCE WITH NRC REQUIREMENTS IN ALL 18 INSPECTED AREAS. THE SECURITY PROGRAM WAS WELL MANAGED, WAS EFFECTIVE, AND RECEIVED GOOD SUPPORT FROM CORPORATE AND PLANT STAFF. SECURITY INFRACTIONS COMMITTED BY NON-SECURITY PERSONNEL REQUIRE CONTINUED MANAGEMENT ATTENTION.

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 16 THROUGH DECEMBER 31 (87031): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; LICENSEE EVENT REPORTS FOLLOWUP, I.E. BULLETIN FOLLOWUP; TRAINING; ONSITE FOLLOWUP OF EVENTS; EMERGENCY PREPAREDNESS; RADIOLOGICAL ENVIRONMENTAL MONITORING; AND AUXILIARY FEEDWATER SYSTEM RELIABILITY. OF THE 11 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN 10 AREAS. ONE VIOLATION WAS IDENTIFIED IN THE AREA OF LICENSEE EVENT REPORTS FOLLOWUP.

ENFORCEMENT SUMMARY

AMENDMENT NO. 18 OF PLANT OPERATING LICENSE NO. NPF-3 IN PARAGRAPH 2.C(4) REQUIRES THE LICENSEE TO COMPLETE THOSE MODIFICATIONS IDENTIFIED IN SECTION 1 OF THE SAFETY EVALUATION (SE) DATED JULY 26, 1979 INCLUDING THOSE MODIFICATIONS SPECIFIED IN TABLE 1 OF THE SE. SECTION B.14 OF TABLE 1 OF THE SE REQUIRES THAT THE FIRE PROTECTION ADMINISTRATIVE CONTROLS BE REVISED TO FOLLOW THE NRC DOCUMENT, "NUCLEAR PLANT FIRE PROTECTION FUNCTIONAL RESPONSIBILITIES, ADMINISTRATIVE CONTROLS AND QUALITY ASSURANCE." PARAGRAPH 1.0.C OF ATTACHMENT NO. 6 OF THIS NRC DOCUMENT STATES IN PART THAT, ". . . PLANT MODIFICATIONS, INCLUDING FIRE PROTECTION SYSTEMS, ARE REVIEWED BY QUALIFIED PERSONNEL TO ASSURE INCLUSION OF APPROPRIATE FIRE PROTECTION REQUIREMENTS. THESE REVIEWS SHOULD INCLUDE ITEMS SUCH AS: . . . (2) DESIGN REVIEWS TO VERIFY APPROPRIATE REQUIREMENTS FOR ROOM ISOLATION (SEALING PENETRATIONS, FLOORS, AND OTHER FIRE BARRIERS)." CONTRARY TO THE ABOVE, MAINTENANCE PROCEDURE (MP) NO. MP 1405.07 DID NOT REQUIRE A DESIGN REVIEW FOR PROPOSED MODIFICATIONS INVOLVING FIRE DAMPERS. TECHNICAL SPECIFICATION 3.3.3.8 REQUIRES THAT WITH THE NUMBER OF OPERABLE FIRE DETECTION INSTRUMENT(S) LESS THAN THE MINIMUM NUMBER OPERABLE AS SPECIFIED IN TABLE 3.3-14, RESTORE THE INOPERABLE INSTRUMENT(S) TO OPERABLE STATUS WITHIN 14 DAYS OR PREPARE AND SUBMIT A SPECIAL REPORT TO THE COMMISSION PURSUANT TO SPECIFICATION 6.9.2 WITHIN THE NEXT 30 DAYS. CONTRARY TO THE ABOVE, ON JULY 18, 1987, FIRE DETECTION SYSTEM ZONE (FDZ) FDZ-A208 WAS DECLARED INOPERABLE RESULTING IN LESS THAN THE MINIMUM NUMBER OF DETECTORS BEING OPERABLE. AS OF OCTOBER 23, 1987, FDZ-A208 HAD NOT BEEN RESTORED TO AN OPERABLE STATUS, NOR HAD A SPECIAL REPORT BEEN SUBMITTED.

AMENDMENT NO. 18 OF PLANT OPERATING LICENSE NO. NPF-3 IN PARAGRAPH 2.C(4) REQUIRES THE LICENSEE TO COMPLETE THOSE MODIFICATIONS IDENTIFIED IN SECTION 1 OF THE SAFETY EVALUATION (SE) DATED JULY 26, 1979 INCLUDING THOSE MODIFICATIONS SPECIFIED IN TABLE 1 OF THE SE. SECTION B OF TABLE 1 REQUIRED THE LICENSEE TO COMPLETE THESE MODIFICATIONS BY APRIL 22, 1980. CONTRARY TO THE ABOVE, THE LICENSEE FAILED TO COMPLETE THE MODIFICATIONS IDENTIFIED IN SECTIONS B.9, 10, 12 AND 13 OF TABLE 1 OF THE SE AS FOLLOWS: (A) THE CABLE TRAY SUPPORTS AT COLUMN LINE 9-F ABOVE ELEVATION 603' 0" DID NOT HAVE THE REQUIRED FIRE PROOFING INSTALLED. (B) THE REQUIRED ADDITIONAL FIRE DETECTORS HAD NOT BEEN INSTALLED IN THE DEMINERALIZER ROOM (ROOM 233) AND FUEL HANDLING AREA ROOM (ROOM 300). (C) AN EMERGENCY LIGHTING UNIT WAS NOT INSTALLED IN THE ROOM 241 PASSAGE. (D) THE KAOWOOL AROUND THE CONDUITS IN THE SERVICE WATER (SW) VALVE ROOM AND COMPONENT COOLING WATER (CCW) PUMP ROOM WAS FOUND INCOMPLETE IN THAT 37 OF 63 CIRCUITS REQUIRING FIRE WRAPS INSPECTED WERE CONSIDERED UNSATISFACTORY DUE TO MISSING KAOWOOL, DAMAGED KAOWOOL OR MISSING BANDS. (8702 4)

10 CFR 50, APPENDIX B, CRITERION V, "INSTRUCTIONS, PROCEDURES, AND DRAWINGS," REQUIRES IN PART THAT ACTIVITIES AFFECTING QUALITY BE ACCOMPLISHED IN ACCORDANCE WITH APPROPRIATE PROCEDURES. THIS REQUIREMENT IS IMPLEMENTED BY THE TOLEDO EDISON COMPANY NUCLEAR QUALITY ASSURANCE MANUAL, SECTION 5, AND NUCLEAR GROUP PROCEDURE NG-AV-115, WHICH REQUIRE THAT THE QUALITY ASSURANCE DIRECTOR APPROVE PROCEDURES AND CHANGES THERETO WHICH IMPLEMENT REQUIREMENTS OF THE NUCLEAR QUALITY ASSURANCE MANUAL. CONTRARY TO THE ABOVE, ON MAY 19, 1987, REVISION 27 TO SITE PROCEDURE AD-1805, "PROCEDURE PREPARATION AND MAINTENANCE," A PROCEDURE AFFECTING QUALITY, WAS ISSUED WITHOUT THE QUALITY ASSURANCE DIRECTOR'S APPROVAL.

10 CFR 50, APPENDIX B, CRITERION XVI, "CORRECTIVE ACTION," REQUIRES THAT CONDITIONS ADVERSE TO QUALITY SHALL BE PROMPTLY IDENTIFIED AND CORRECTED. THIS REQUIREMENT IS IMPLEMENTED BY THE TOLEDO EDISON COMPANY NUCLEAR QUALITY ASSURANCE MANUAL, SECTION 14, WHICH REQUIRES THAT PROCEDURE DEVIATIONS BE PROMPTLY IDENTIFIED, DOCUMENTED AND CORRECTED. CONTRARY TO THE ABOVE, THE NRC INSPECTION DETERMINED THAT AS OF JANUARY 8, 1988, A FAILURE TO OBTAIN QUALITY ASSURANCE DIRECTOR APPROVAL OF REVISION 27 TO PROCEDURE AD-1805, A CONDITION ADVERSE TO QUALITY DOCUMENTED ON POTENTIAL CONDITION ADVERSE TO QUALITY REPORT NO. 87-032 ON JUNE 26, 1987, HAD NOT BEEN RESOLVED. PORTION OF THE PROTECTED AREA WAS NOT AN EFFECTIVE PHYSICAL BARRIER AND FAILURE TO IMPLEMENT ADEQUATE COMPENSATORY MEASURES.



Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                    DAVIS-BESSE 1                    \*  
\*\*\*\*\*

ENFORCEMENT SUMMARY

(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

TWO MAIN STEAM SAFETY VALVES (MSSV) WERE REPLACED WITH BLANK FLANGES. ONE FAILED AFTER THE PLANT TRIP ON SEPTEMBER 6, 1987, THE SECOND WAS REMOVED DUE TO INDICATIONS OF WEAR WHICH MAY BE A PRECURSOR TO FAILURE. A THIRD MSSV WAS GAGGED SHUT ON OCTOBER 9, 1987, AFTER ADDITIONAL ENGINEERING EVALUATIONS AND INSPECTIONS REVEALED SIGNS OF ANOTHER POSSIBLE FAILURE PRECURSOR.

FACILITY ITEMS (PLANS AND PROCEDURES):

THE NEXT REFUELING OUTAGE IS SCHEDULED TO BEGIN IN EARLY FEBRUARY, 1988.

MANAGERIAL ITEMS:

A MEETING WAS HELD WITH THE LICENSEE ON SEPTEMBER 15, 1987 TO DISCUSS THE STATUS OF THE LICENSEE'S PROGRAM TO IMPROVE PLANT OPERATION AND MAINTENANCE. THE SALP BOARD MEETING WAS HELD ON SEPTEMBER 24, 1987.

PLANT STATUS:

OPERATING AT 81% POWER.

LAST IE SITE INSPECTION DATE: 03/09/88

INSPECTION REPORT NO: 88005

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-03	011388	021888	FIRE DETECTION SYSTEM SUPERVISION NOT TESTED FOR GROUND FAULT DETECTION DUE TO AN INADEQUATE PROCEDURE
88-04	012088	011888	INTENTIONALLY MISSED HOURLY FIRE WATCH DUE TO RADIOLOGICAL CONTROL AIR EVACUATION
88-05	012188	022288	INOPERABLE FIRE BARRIER WITH INOPERABLE FIE DETECTION

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1. Docket: 50-275                      O P E R A T I N G   S T A T U S

2. Reporting Period: C2/01/88    Outage + On-line Hrs: 656.0

3. Utility Contact: P. BEDASAM (805) 595-4097

4. Licensed Thermal Power (Mwt):                      3338

5. Nameplate Rating (Gross MWe):                      1137

6. Design Electrical Rating (Net MWe):                      1086

7. Maximum Dependable Capacity (Gross MWe):                      1124

8. Maximum Dependable Capacity (Net MWe):                      1073

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>24,694.3</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,388.3</u>	<u>21,127.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,380.1</u>	<u>20,688.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,710,575</u>	<u>3,746,060</u>	<u>62,710,523</u>
18. Gross Elec Ener (MWH)	<u>572,900</u>	<u>1,257,900</u>	<u>21,108,732</u>
19. Net Elec Ener (MWH)	<u>538,852</u>	<u>1,188,185</u>	<u>19,999,887</u>
20. Unit Service Factor	<u>100.0</u>	<u>95.8</u>	<u>83.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>95.8</u>	<u>83.8</u>
22. Unit Cap Factor (MDC Net)	<u>72.2</u>	<u>76.9</u>	<u>75.5</u>
23. Unit Cap Factor (DER Net)	<u>71.3</u>	<u>76.0</u>	<u>74.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>4.2</u>	<u>3.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>59.9</u>	<u>840.6</u>

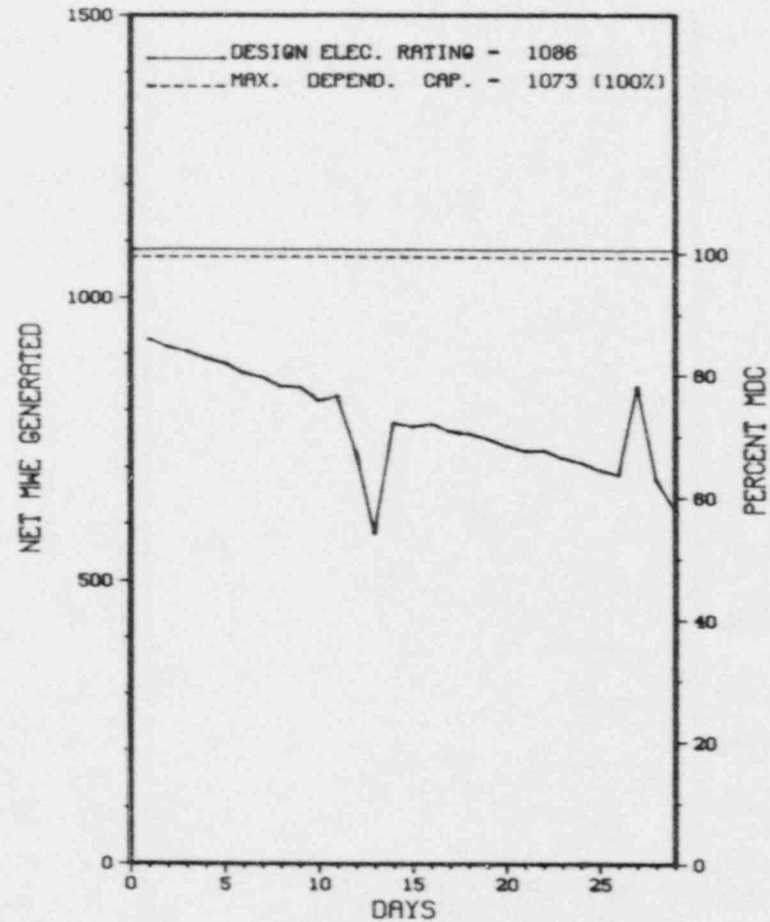
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING - MARCH 4, 1988 - 70 DAYS DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                      D I A B L O   C A N Y O N   1                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* DIABLO CANYON 1 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
DIABLO CANYON 1 COASTED DOWN IN POWER IN PREPARATION FOR THE  
SECOND REFUELING OUTAGE DURING FEBRUARY.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* DIABLO CANYON 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CALIFORNIA  
COUNTY.....SAN LUIS OBISPO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...12 MI WSW OF  
SAN LUIS OBISPO  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...APRIL 29, 1984  
DATE ELEC ENER 1ST GENER...NOVEMBER 11, 1984  
DATE COMMERCIAL OPERATE...MAY 7, 1985  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...PACIFIC OCEAN  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PACIFIC GAS & ELECTRIC  
CORPORATE ADDRESS.....77 BEALE STREET  
SAN FRANCISCO, CALIFORNIA 94106  
CONTRACTOR  
ARCHITECT/ENGINEER.....PACIFIC GAS & ELECTRIC  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....PACIFIC GAS & ELECTRIC  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....J. BURDOIN  
LICENSING PROJ MANAGER....H. ROOD  
DOCKET NUMBER.....50-275  
LICENSE & DATE ISSUANCE...DPR-80, NOVEMBER 2, 1984  
PUBLIC DOCUMENT ROOM.....ROBERT F. KENNEDY LIBRARY  
CALIFORNIA POLYTECHNIC STATE UNIVERSITY  
SAN LUIS OBISPO, CA. 93407

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION ON DECEMBER 20, 1987 - JANUARY 30, 1988 (REPORT NO. 50-275/87-44) AREAS INSPECTED: THE INSPECTION INCLUDED ROUTINE INSPECTIONS OF PLANT OPERATIONS, MAINTENANCE AND SURVEILLANCE ACTIVITIES, FOLLOW-UP OF ONSITE EVENTS, OPEN ITEMS RADIOLOGICAL CONTROLS, PHYSICAL SECURITY, LICENSEE EVENT REPORTS (LERS), AND ENFORCEMENT ITEM FOLLOW-UP, AS WELL AS SELECTED INDEPENDENT INSPECTION ACTIVITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION CONCERNING PLANT SECURITY WAS IDENTIFIED. INSPECTOR PERCEPTIONS REGARDING ROOT CAUSE ANALYSIS AND CORRECTIVE ACTION, CONFIGURATION CONTROL, AND PLANT STAFF ASSESSMENTS OF FIRST-OF-A-KIND PLANT EVOLUTIONS ARE INCLUDED.

+ INSPECTION ON JANUARY 19-22, 1988 (REPORT NO. 50-275/88-01) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF PREVIOUS INSPECTION FINDINGS, SOLID WASTES, LICENSEE REPORTS AND LICENSEE IDENTIFIED PROBLEMS, SURVEYS AND MONITORING, AND FACILITY TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-275/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 31 - MARCH 5, 1988 (REPORT NO. 50-275/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 8-22, 1988 (REPORT NO. 50-275/88-04) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

INSPECTION SUMMARY

- + INSPECTION ON MARCH 14-18, 1988 (REPORT NO. 50-275/88-05) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON MARCH 21-25, 1988 (REPORT NO. 50-275/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE PLANT IS IN COMMERCIAL OPERATION, AT APPROXIMATELY 78% POWER AND IS IN COASTDOWN FOR SECOND REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: 03/21-25/88+

INSPECTION REPORT NO: 50-275/88-06+

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-25-L0	12-17-87	01-19-88	MAIN TURBINE TRIP-MAIN FEEDWATER ISOLATION DURING STARTUP
87-28-L0	12-30-87	01-29-88	ENTRY INTO TS303 WHEN BOTH TRAINS OF AUX BLDG VENT INOPERABLE DUE TO PROCEDURAL DEFICIENCY
88-01-L0	01-01-88	02-01-88	FAIURE TO PERFORM AIR SAMPLER FLOW ESTIMATE REQUIRED BY TECHNICAL SPECIFICATION 3.3.3.10

1. Docket: 50-323                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: P. BEDESEM (805) 595-4097

4. Licensed Thermal Power (Mwt):                      3411

5. Nameplate Rating (Gross MWe):                      1164

6. Design Electrical Rating (Net MWe):                      1119

7. Maximum Dependable Capacity (Gross MWe):                      1137

8. Maximum Dependable Capacity (Net MWe):                      1087

9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:           

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>17,253.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>14,355.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>13,925.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,335,908</u>	<u>4,813,113</u>	<u>44,075,100</u>
18. Gross Elec Ener (MWH)	<u>779,300</u>	<u>1,605,800</u>	<u>14,593,499</u>
19. Net Elec Ener (MWH)	<u>742,270</u>	<u>1,529,521</u>	<u>13,792,913</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>80.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>80.7</u>
22. Unit Cap Factor (MDC Net)	<u>98.1</u>	<u>97.7</u>	<u>73.5</u>
23. Unit Cap Factor (DER Net)	<u>95.3</u>	<u>94.9</u>	<u>71.4</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>9.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>1,505.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

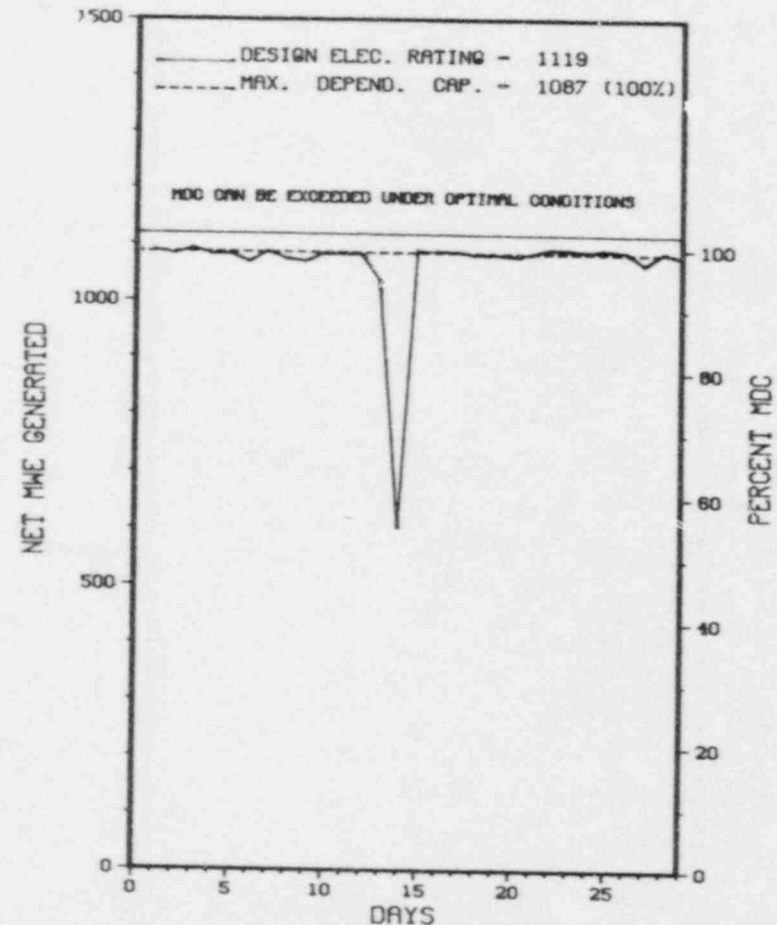
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \*                      DIABLO CANYON 2                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* DIABLO CANYON 2 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
DIABLO CANYON 2 OPERATED ROUTINELY IN FEBRUARY WITH NO  
OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

<u>Type</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; Component</u>	
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling	H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction		4-Continued	Data Entry Sheet
	E-Operator Training		5-Reduced Load	Licensee Event Report
	& License Examination		9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* DIABLO CANYON 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CALIFORNIA  
COUNTY.....SAN LUIS OBISPO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...12 MI WSW OF  
SAN LUIS OBISPO  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 19, 1985  
DATE ELEC ENER 1ST GENER...OCTOBER 20, 1985  
DATE COMMERCIAL OPERATE...MARCH 13, 1986  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...PACIFIC OCEAN  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PACIFIC GAS & ELECTRIC  
CORPORATE ADDRESS.....77 BEALE STREET  
SAN FRANCISCO, CALIFORNIA 94106  
CONTRACTOR  
ARCHITECT/ENGINEER.....PACIFIC GAS & ELECTRIC  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....PACIFIC GAS & ELECTRIC  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....J. BURDOIN  
LICENSING PROJ MANAGER.....H. ROOD  
DOCKET NUMBER.....50-323  
LICENSE & DATE ISSUANCE...DPR-82, AUGUST 26, 1985  
PUBLIC DOCUMENT ROOM.....ROBERT F. KENNEDY LIBRARY  
CALIFORNIA POLYTECHNIC STATE UNIVERSITY  
SAN LUIS OBISPO, CA. 93407

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

- + INSPECTION ON DECEMBER 20, 1987 - JANUARY 20, 1988 (REPORT NO 50-323/87-45) AREAS INSPECTED: THE INSPECTION INCLUDED ROUTINE INSPECTIONS OF PLANT OPERATIONS MAINTENANCE AND SURVEILLANCE ACTIVITIES, FOLLOW-UP OF ONSITE EVENTS, OPEN ITEMS, RADIOLOGICAL CONTROLS, PHYSICAL SECURITY, LICENSEE EVENT REPORTS (LERS), AND ENFORCEMENT ITEM FOLLOW-UP, AS WELL AS SELECTED INDEPENDENT INSPECTION ACTIVITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.  
RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.
- + INSPECTION ON JANUARY 19-22, 1988 (REPORT NO. 50-323/88-01) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF PREVIOUS INSPECTION FINDINGS, SOLID WASTES, LICENSEE REPORTS AND LICENSEE IDENTIFIED PROBLEMS, SURVEYS AND MONITORING, AND FACILITY TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.  
RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.
- + INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-323/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON FEBRUARY 8-22, 1988 (REPORT NO. 50-323/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON JANUARY 31 - MARCH 5, 1988 (REPORT NO. 50-323/88-04) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

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\*                   DIABLO CANYON 2                   \*  
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INSPECTION SUMMARY

- + INSPECTION ON MARCH 14-18, 1988 (REPORT NO. 50-323/88-05) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON MARCH 21-25, 1988 (REPORT NO. 50-323/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE PLANT IS IN COMMERCIAL OPERATION, AT APPROXIMATELY 100% POWER.

LAST IE SITE INSPECTION DATE: 03/21-25/88+

INSPECTION REPORT NO: 50-323/88-06+

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE

1. Docket: 50-237                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: D.C. MAXWELL (815) 942-2920 X 489

4. Licensed Thermal Power (Mwt):                      2527

5. Nameplate Rating (Gross MWe):                      920 X 0.9 = 828

6. Design Electrical Rating (Net MWe):                      794

7. Maximum Dependable Capacity (Gross MWe):                      812

8. Maximum Dependable Capacity (Net MWe):                      772

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>156,024.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>118,012.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>112,533.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,626,091</u>	<u>3,302,983</u>	<u>231,321,806</u>
18. Gross Elec Ener (MWH)	<u>521,673</u>	<u>1,061,786</u>	<u>74,001,756</u>
19. Net Elec Ener (MWH)	<u>498,468</u>	<u>1,014,655</u>	<u>69,950,833</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>72.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>72.1</u>
22. Unit Cap Factor (MDC Net)	<u>92.8</u>	<u>91.3</u>	<u>58.1</u>
23. Unit Cap Factor (DER Net)	<u>90.2</u>	<u>88.7</u>	<u>56.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>11.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>7,157.0</u>

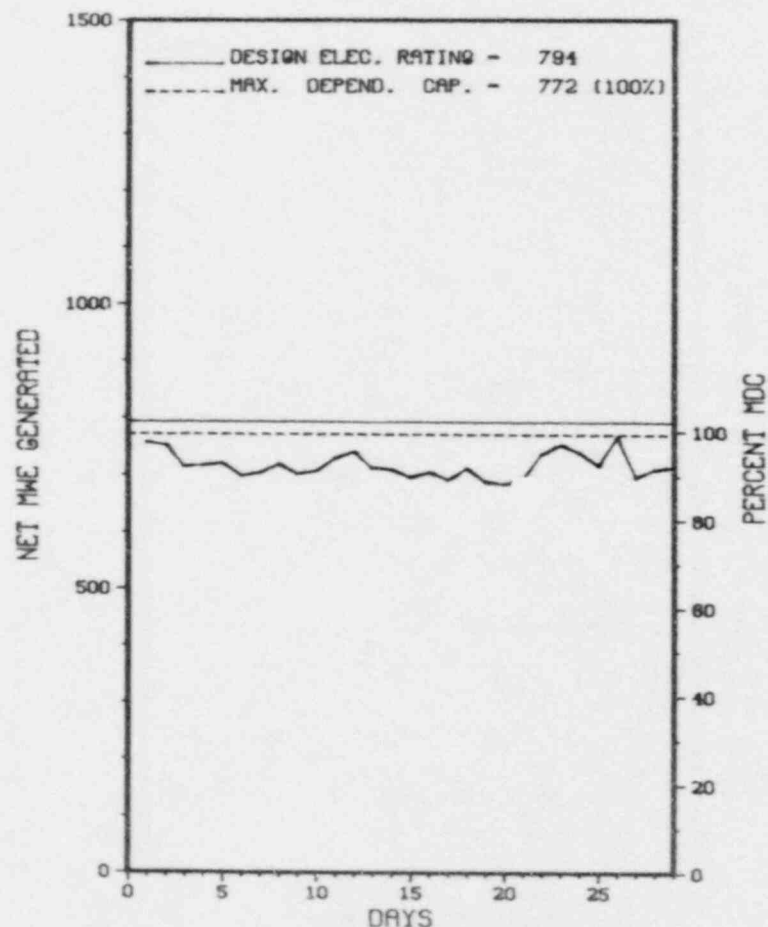
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
BATTERY DISCHARGE TEST - MAY 1988 - ONE WEEK DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                      D R E S D E N   2                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

D R E S D E N   2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* DRESDEN 2 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
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NONE

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 \* SUMMARY \*  
 \*\*\*\*\*  
 DRESDEN 2 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
 OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* DRESDEN 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....GRUNDY  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...9 MI E OF  
MORRIS, ILL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JANUARY 7, 1970  
DATE ELEC ENER 1ST GENER...APRIL 13, 1970  
DATE COMMERCIAL OPERATE...JUNE 9, 1970  
CONDENSER COOLING METHOD...COOLING LAKE  
CONDENSER COOLING WATER...KANKAKEE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....S. DUPONT  
LICENSING PROJ MANAGER.....M. GROTHENHUIS  
DOCKET NUMBER.....50-237  
LICENSE & DATE ISSUANCE...DPR-19, DECEMBER 22, 1969  
PUBLIC DOCUMENT ROOM.....MORRIS PUBLIC LIBRARY  
604 LIBERTY STREET  
MORRIS, ILLINOIS 60450

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION DURING THE PERIOD OF DECEMBER 9 THROUGH JANUARY 29 (88002, 87040, 87039): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS, OF OPERATIONAL SAFETY VERIFICATION; FOLLOWUP OF EVENTS; MONTHLY SURVEILLANCE OBSERVATION; LICENSEE EVENT REPORTS FOLLOWUP; I.E. BULLETIN FOLLOWUP; I.E. INFORMATION NOTICE FOLLOWUP; MANAGEMENT MEETINGS; AND REPORT REVIEW. OF THE EIGHT AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN SEVEN AREAS; TWO VIOLATIONS WERE IDENTIFIED IN THE REMAINING AREA: (CORRECTIVE ACTIONS PREVIOUSLY TAKEN FAILED TO PREVENT A REPETITIVE VIOLATION; FAILURE TO PERFORM TYPE B AND C LOCAL LEAK RATE TEST SURVEILLANCES WITHIN THE TWO YEAR FREQUENCY REQUIREMENT).

INSPECTION ON JANUARY 12-28 (88002, 88002): ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF GENERIC LETTER 83-28 IN THE AREAS OF EQUIPMENT CLASSIFICATION, VENDOR INTERFACE, POST MAINTENANCE TESTING AND REACTOR TRIP SYSTEM RELIABILITY. THE INSPECTION ALSO INCLUDED A FOLLOWUP ON PREVIOUS INSPECTION ITEMS. CLOSED TI 2515/64R1 AND TI 2515/91. (25564B, 92700) NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 12-15 AND 25 (88003, 88003): ROUTINE ANNOUNCED INSPECTION OF: (1) THE CHEMISTRY PROGRAM, INCLUDING PROCEDURES, ORGANIZATION, AND TRAINING; (2) REACTOR SYSTEMS WATER QUALITY CONTROL PROGRAMS; (3) QUALITY ASSURANCE/QUALITY CONTROL PROGRAM IN THE LABORATORY; AND (4) NONRADIOACTIVE CONFIRMATORY MEASUREMENTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON DECEMBER 1 THROUGH JANUARY 8 (87005): SPECIAL INSPECTION OF THE CIRCUMSTANCES SURROUNDING THE EVENT INVOLVING OPERATION OF DRESDEN UNIT 2 IN VIOLATION OF ITS LICENSE ON NOVEMBER 29, 1986. ONE APPARENT VIOLATION OF 10 CFR 50.36 WITH TWO EXAMPLES WAS IDENTIFIED WHEN DRESDEN UNIT 2 WAS OPERATED FOR GREATER THAN 24 HOURS WITH DRYWELL TO SUPPRESSION CHAMBER



1. Docket: 50-249 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: D.C. MAXWELL (815) 942-2920 X 489

4. Licensed Thermal Power (Mwt): 2527

5. Nameplate Rating (Gross MWe): 920 X 0.9 = 828

6. Design Electrical Rating (Net MWe): 794

7. Maximum Dependable Capacity (Gross MWe): 812

8. Maximum Dependable Capacity (Net MWe): 773

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>145,609.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>104,848.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>100,287.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,576,100</u>	<u>3,337,080</u>	<u>204,712,602</u>
18. Gross Elec Ener (MWH)	<u>512,860</u>	<u>1,087,756</u>	<u>66,118,998</u>
19. Net Elec Ener (MWH)	<u>490,903</u>	<u>1,042,261</u>	<u>62,620,081</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>68.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>68.9</u>
22. Unit Cap Factor (MDC Net)	<u>91.2</u>	<u>93.6</u>	<u>55.6</u>
23. Unit Cap Factor (DER Net)	<u>88.8</u>	<u>91.2</u>	<u>54.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>12.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>9,463.9</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

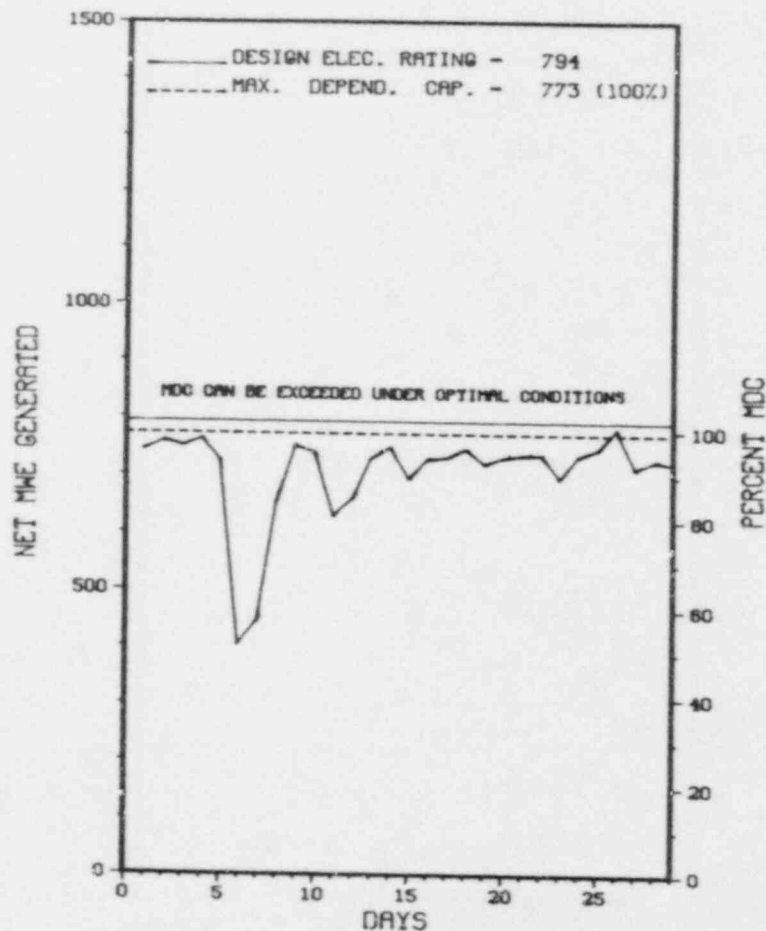
REFUELING OUTAGE - MARCH 1988 - 15 WEEK DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* DRESDEN 3 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DRESDEN 3



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* DRESDEN 3 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
DRESDEN 3 OPERATED DURING THE MONTH OF FEBRUARY AT MAXIMUM  
FLOW OR AT REDUCED LOADS AS DIRECTED BY THE LOAD DISPATCHER.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* DRESDEN 3 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....GRUNDY  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...9 MI E OF  
MORRIS, ILL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JANUARY 31, 1971  
DATE ELEC ENCL 1ST GENER...JULY 22, 1971  
DATE COMMERCIAL OPERATE...NOVEMBER 16, 1971  
CONDENSER COOLING METHOD...COOLING LAKE  
CONDENSER COOLING WATER...KANKAKEE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....L. MCGREGOR  
LICENSING PROJ MANAGER.....M. GROTENHUIS  
DOCKET NUMBER.....50-249  
LICENSE & DATE ISSUANCE...DPR-25, MARCH 2, 1971  
PUBLIC DOCUMENT ROOM.....MORRIS PUBLIC LIBRARY  
604 LIBERTY STREET  
MORRIS, ILLINOIS 60450

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION DURING THE PERIOD OF DECEMBER 9 THROUGH JANUARY 29 (88002, 87040, 87039): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS, OF OPERATIONAL SAFETY VERIFICATION; FOLLOWUP OF EVENTS; MONTHLY SURVEILLANCE OBSERVATION; LICENSEE EVENT REPORTS FOLLOWUP; I.E. BULLETIN FOLLOWUP; I.E. INFORMATION NOTICE FOLLOWUP; MANAGEMENT MEETINGS; AND REPORT REVIEW. OF THE EIGHT AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN SEVEN AREAS; TWO VIOLATIONS WERE IDENTIFIED IN THE REMAINING AREA: (CORRECTIVE ACTIONS PREVIOUSLY TAKEN FAILED TO PREVENT A REPETITIVE VIOLATION; FAILURE TO PERFORM TYPE B AND C LOCAL LEAK RATE TEST SURVEILLANCES WITHIN THE TWO YEAR FREQUENCY REQUIREMENT).

INSPECTION ON JANUARY 12-28 (88002, 88002): ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF GENERIC LETTERS 83-28 IN THE AREAS OF EQUIPMENT CLASSIFICATION, VENDOR INTERFACE, POST MAINTENANCE TESTING AND REACTOR TRIP SYSTEM RELIABILITY. THE INSPECTION ALSO INCLUDED A FOLLOWUP ON PREVIOUS INSPECTION ITEMS. CLOSED TI 2515/64R1 AND TI 2515/91. (25564B, 92700) NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 12-15 AND 25 (88003, 88003): ROUTINE ANNOUNCED INSPECTION OF: (1) THE CHEMISTRY PROGRAM, INCLUDING PROCEDURES, ORGANIZATION, AND TRAINING; (2) REACTOR SYSTEMS WATER QUALITY CONTROL PROGRAMS; (3) QUALITY ASSURANCE/QUALITY CONTROL PROGRAM IN THE LABORATORY; AND (4) NONRADIOACTIVE CONFIRMATORY MEASUREMENTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON DECEMBER 1 THROUGH JANUARY 8 (87005): SPECIAL INSPECTION OF THE CIRCUMSTANCES SURROUNDING THE EVENT INVOLVING OPERATION OF DRESDEN UNIT 2 IN VIOLATION OF ITS LICENSE ON NOVEMBER 29, 1986. ONE APPARENT VIOLATION OF 10 CFR 50.36 WITH TWO EXAMPLES WAS IDENTIFIED WHEN DRESDEN UNIT 2 WAS OPERATED FOR GREATER THAN 24 HOURS WITH DRYWELL TO SUPPRESSION CHAMBER

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

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\*                    D R E S D E N   3                    \*  
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INSPECTION SUMMARY

DIFFERENTIAL PRESSURE LESS THAN 1.00 PSID AND FOR GREATER THAN 24 HOURS FOLLOWING COMMENCEMENT OF DEINERTING ACTIVITIES.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT OPERATING ROUTINELY AT POWER

LAST IE SITE INSPECTION DATE: 01/15/88

INSPECTION REPORT NO: 88003

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-02	011388	020488	UNIT 3 DIESEL GENERATOR AUTO START DURING WORK ON AUTO START RELAY DUE TO MANAGEMENT DEFICIENCY

1. Docket: 50-331 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: L. MILLER (319) 851-7204

4. Licensed Thermal Power (Mwt): 1658

5. Nameplate Rating (Gross MWe): 663 X 0.9 = 597

6. Design Electrical Rating (Net MWe): 538

7. Maximum Dependable Capacity (Gross MWe): 545

8. Maximum Dependable Capacity (Net MWe): 515

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any:           
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>114,648.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>81,753.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>172.8</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>79,695.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,142,193</u>	<u>2,344,499</u>	<u>102,381,780</u>
18. Gross Elec Ener (MWH)	<u>392,345</u>	<u>805,896</u>	<u>34,365,724</u>
19. Net Elec Ener (MWH)	<u>371,968</u>	<u>764,968</u>	<u>32,208,296</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>69.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>69.5</u>
22. Unit Cap Factor (MDC Net)	<u>103.8</u>	<u>103.2</u>	<u>54.5</u>
23. Unit Cap Factor (DER Net)	<u>99.3</u>	<u>98.7</u>	<u>52.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>13,917.7</u>

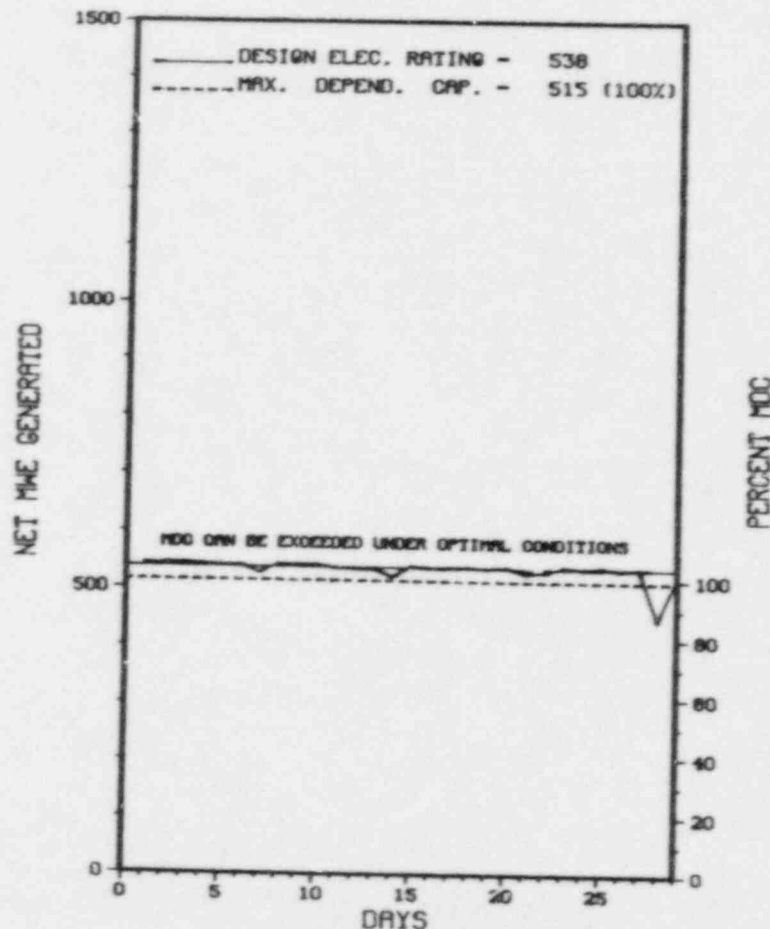
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* DUANE ARNOLD \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DUANE ARNOLD



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* DUANE ARNOLD \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
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NONE

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\* SUMMARY \*  
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DUANE ARNOLD OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* DUANE ARNOLD \*  
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FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....IOWA  
  
COUNTY.....LINN  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...8 MI NW OF  
CEDAR RAPIDS, IA  
  
TYPE OF REACTOR.....BWR  
  
DATE INITIAL CRITICALITY...MARCH 23, 1974  
  
DATE ELEC ENER 1ST GENER...MAY 19, 1974  
  
DATE COMMERCIAL OPERATE...FEBRUARY 1, 1975  
  
CONDENSER COOLING METHOD...COOLING TOWER  
  
CONDENSER COOLING WATER...CEDAR RAPIDS RIVER  
  
ELECTRIC RELIABILITY  
COUNCIL.....MID-CONTINENT AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....IOWA ELECTRIC LIGHT & POWER  
  
CORPORATE ADDRESS.....I E TOWERS, P.O. BOX 351  
CEDAR RAPIDS, IOWA 52406  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
  
CONSTRUCTOR.....BECHTEL  
  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
  
IE RESIDENT INSPECTOR.....M. PARKER  
  
LICENSING PROJ MANAGER.....J. HALL  
DOCKET NUMBER.....50-331  
  
LICENSE & DATE ISSUANCE...DPR-49, FEBRUARY 22, 1974  
  
PUBLIC DOCUMENT ROOM.....CEDAR RAPIDS PUBLIC LIBRARY  
500 FIRST STREET, S.E.  
CEDAR RAPIDS, IOWA 52401

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON JANUARY 4-8 (88002): INCLUDED A REVIEW OF LICENSEE'S ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; SECURITY PLAN AND IMPLEMENTING PROCEDURES; SECURITY ORGANIZATION; ACCESS CONTROL - PERSONNEL, PACKAGES; LOGS; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; COMPENSATORY MEASURES; ASSESSMENT AIDS; ALARM STATIONS; COMMUNICATIONS; PROTECTION OF SAFEGUARDS INFORMATION; AND PERSONNEL TRAINING AND QUALIFICATIONS. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: FAILURE TO ADEQUATELY MAINTAIN A SECTION OF THE PROTECTED AREA BARRIER AND FAILURE TO IMPLEMENT ADEQUATE COMPENSATORY MEASURES FOR A PORTION OF A DEGRADED PROTECTED AREA BARRIER.

INSPECTION ON JANUARY 4-8 (88004): ROUTINE, UNANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE EMERGENCY PREPAREDNESS PROGRAM: EMERGENCY DETECTION AND CLASSIFICATION, PROTECTIVE ACTION DECISIONMAKING, NOTIFICATIONS AND COMMUNICATIONS, CHANGES TO THE EMERGENCY PREPAREDNESS PROGRAM, TRAINING, DOSE ASSESSMENT AND LICENSEE AUDITS. IN ADDITION, LICENSE ACTION ON PREVIOUSLY IDENTIFIED ITEMS AND EMERGENCY PLAN ACTIVATIONS WERE ADDRESSED. THE INSPECTION INVOLVED TWO NRC INSPECTORS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED AS A RESULT OF THIS INSPECTION.

INSPECTION ON DECEMBER 8 THROUGH JANUARY 8 (87033): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; LICENSEE EVENT REPORTS; BULLETINS; AND DESIGN CHANGES AND MODIFICATIONS. NO VIOLATIONS WERE IDENTIFIED. TWO LONG-STANDING INSPECTOR CONCERNS HAVE NOT YET BEEN RESOLVED BY THE LICENSEE. THE FIRST CONCERNS ADEQUATE ADMINISTRATIVE CONTROLS TO ASSURE THAT INSTRUMENTATION USED FOR TECHNICAL SPECIFICATION SURVEILLANCES IS BEING CALIBRATED AT THE PROPER FREQUENCY. THE SECOND CONCERNS VERIFICATION THAT SEISMIC MONITORS ARE OPERABLE.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                   DUANE ARNOLD                   \*  
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INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING ROUTINELY.

LAST IE SITE INSPECTION DATE: 01/08/88

INSPECTION REPORT NO: 88003

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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1. Docket: 59-348 OPERATING STATUS:  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: J. D. HOODARD (205) 899-5156  
 4. Licensed Thermal Power (Mht): 2652  
 5. Nameplate Rating (Gross MWe): 860  
 6. Design Electrical Rating (Net MWe): 829  
 7. Maximum Dependable Capacity (Gross MWe): 853  
 8. Maximum Dependable Capacity (Net MWe): 813  
 9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE  
 10. Power Level To Which Restricted, If Any (Net MWe):  
 11. Reasons for Restrictions, If Any:  
NONE

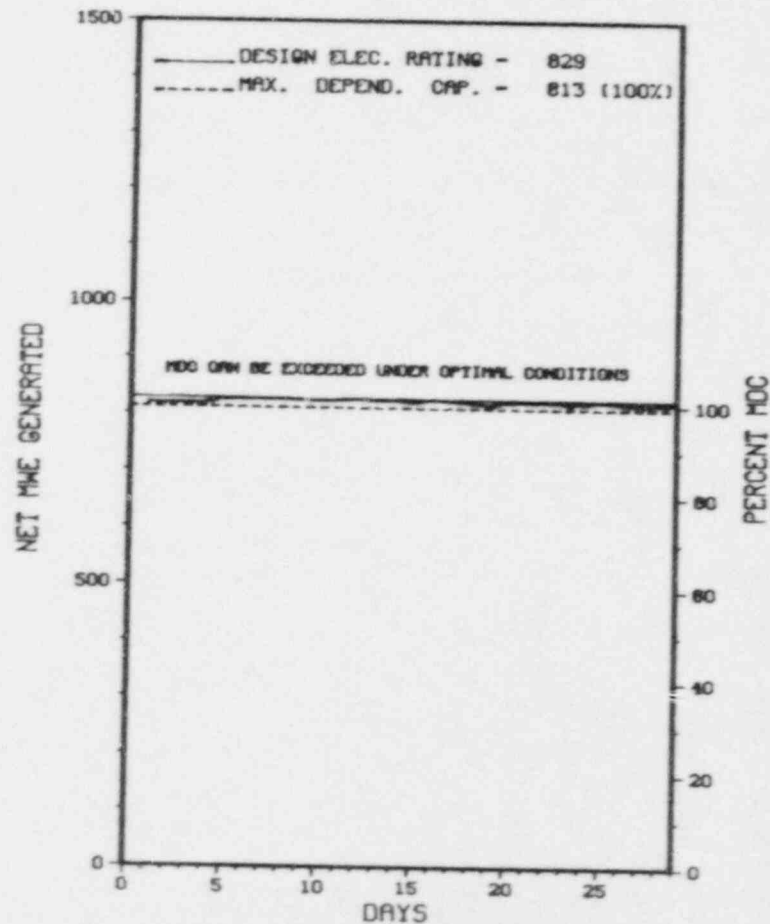
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>89,832.0</u>
13. Hours Reactor Critical	<u>196.0</u>	<u>1,440.0</u>	<u>66,656.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,650.7</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>65,265.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MNH)	<u>1,845,755</u>	<u>3,818,843</u>	<u>166,242,160</u>
18. Gross Elec Ener (MWH)	<u>603,326</u>	<u>1,248,526</u>	<u>53,314,862</u>
19. Net Elec Ener (MWH)	<u>573,472</u>	<u>1,187,042</u>	<u>50,356,238</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>72.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>72.7</u>
22. Unit Cap Factor (MDC Net)	<u>101.3</u>	<u>101.4</u>	<u>69.6*</u>
23. Unit Cap Factor (DER Net)	<u>99.4</u>	<u>99.4</u>	<u>67.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>9.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>6,823.1</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING/MAINTNANCE - MARCH 1988 - SEVEN WEEKS DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

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 \* FARLEY 1 \*  
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AVERAGE DAILY POWER LEVEL (MWe) PLOT  
 FARLEY 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* FARLEY 1 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
FARLEY 1 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR  
SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* FARLEY 1 \*  
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FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ALABAMA  
COUNTY.....HOUSTON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...18 MI SE OF  
DOTHAN, ALA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 9, 1977  
DATE ELEC ENER 1ST GENER...AUGUST 18, 1977  
DATE COMMERCIAL OPERATE...DECEMBER 1, 1977  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...CHATAHOOCHEE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....ALABAMA POWER CO.  
CORPORATE ADDRESS.....600 NORTH 18TH STREET  
BIRMINGHAM, ALABAMA 35203  
CONTRACTOR  
ARCHITECT/ENGINEER.....SOUTHERN SERVICES INCORPORATED  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DANIEL INTERNATIONAL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....W. BRADFORD  
LICENSING PROJ MANAGER.....E. REEVES  
DOCKET NUMBER.....50-348  
LICENSE & DATE ISSUANCE...NPF-2, JUNE 25, 1977  
PUBLIC DOCUMENT ROOM.....HOUSTON/LOVE MEMORIAL LIBRARY  
212 W. BURDESHAW STREET  
DOTHAN, ALABAMA 36302

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 2-20 (87-30): THIS SPECIAL, ANNOUNCED INSPECTION WAS IN THE AREA OF ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRICAL EQUIPMENT AND INCLUDED A REVIEW OF ALABAMA POWER COMPANY'S (APCO) IMPLEMENTATION OF THE REQUIREMENTS OF 10 CFR 50.49; PLANT WALKDOWN INSPECTIONS OF ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49; A REVIEW OF THE LICENSEE'S CORRECTIVE ACTIONS FOR PREVIOUSLY IDENTIFIED EQ DEFICIENCIES; AND A REVIEW OF THEIR EVALUATIONS OF THESE FINDINGS ON HOW THEY EFFECT RESTART OF UNIT 2 AND CONTINUED OPERATION OF UNIT 1. ELEVEN VIOLATIONS WERE IDENTIFIED AND ARE DISCUSSED.

INSPECTION DECEMBER 2-4 (87-35): THIS REACTIVE, UNANNOUNCED INSPECTION WAS CONDUCTED TO ASSESS LICENSEE ACTIONS IN RESPONSE TO AN EVENT WHICH OCCURRED ON NOVEMBER 27, 1987, INVOLVING A SPILL INSIDE CONTAINMENT FROM THE RESIDUAL HEAT REMOVAL (RHR) SYSTEM. ONE VIOLATION WAS IDENTIFIED INVOLVING TWO EXAMPLES OF FAILURE TO ESTABLISH AND IMPLEMENT PROCEDURES. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 4-6 (88-02): THIS WAS A SPECIAL, ANNOUNCED INSPECTION TO REVIEW THE CIRCUMSTANCES SURROUNDING THE UNAUTHORIZED ENTRY OF LICENSEE PERSONNEL INTO A HIGH RADIATION AREA. FOUR VIOLATIONS WERE IDENTIFIED: FAILURE TO ADEQUATELY CONTROL ACCESS TO A HIGH RADIATION AREA; FAILURE TO FOLLOW PROCEDURES; FAILURE TO PERFORM AN ADEQUATE SURVEY, AND; FAILURE TO ADEQUATELY INSTRUCT INDIVIDUALS WORKING IN OR FREQUENTING A RESTRICTED AREA.

INSPECTION JANUARY 12 - FEBRUARY 10 (88-03): THIS ROUTINE ON-SITE INSPECTION INVOLVED A REVIEW OF SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, AND LICENSEE EVENT REPORTS AND ENGINEERED SAFETY SYSTEMS. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO PROVIDE FIRE WATCH WITH BACKUP FIRE SUPPRESSION EQUIPMENT FOR FIRE PROTECTION SUPPRESSION SYSTEMS WHICH WERE OUT OF SERVICE; FAILURE TO FOLLOW PROCEDURES TO MAINTAIN

INSPECTION SUMMARY

FOUR ELECTRICAL BREAKERS IN CORRECT CLOSED POSITION AND TO INCLUDE ALIGNMENT IN ONE PROCEDURE.

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR PART 50, CRITERION XVI, THE INSPECTORS IDENTIFIED FIVE INSTANCES WHERE AT THE TIME OF THE INSPECTIONS, THE LICENSEE HAD FAILED TO TAKE ADEQUATE CORRECTIVE ACTION. CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION X, ON JUNE 2, 1987, BOTH TRAIN B, 125-V SERVICE WATER (SW) BATTERY RACKS, WERE FOUND TO BE IMPROPERLY INSTALLED AND MOUNTED CREATING AN UNANALYZED CONDITION CONCERNING SEISMIC QUALIFICATION. SPECIFICALLY, THE CONCRETE ANCHOR BOLT NUTS ON ALL TRAIN B BATTERY RACK ANCHORS WERE BACKED OFF AND USED AS LEVELING NUTS FOR THE RACK, THUS PROVIDING NO PRELOAD ON THE CONCRETE ANCHORS. THE BATTERY RACKS WERE IMPROPERLY INSTALLED IN THE SW TRAIN B BATTERY ROOM APPROXIMATELY ONE YEAR PRIOR TO THIS INSPECTION AND REMAINED IN THIS UNANALYZED CONDITION UNTIL IT WAS IDENTIFIED BY THE NRC INSPECTOR ON JUNE 2, 1987. CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION III, THE LICENSEE INSTALLED A NUMBER OF COMMERCIAL GRADE PARTS AT FARLEY NUCLEAR PLANT UNITS 1 AND 2 WITHOUT ADEQUATELY EVALUATING THEIR SUITABILITY FOR USE IN SAFETY-RELATED APPLICATIONS. THESE PARTS WERE IN USE AT THE TIME OF THE INSPECTIONS INDICATED. THERE WERE 5 EXAMPLES GIVEN. CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION VII, AT THE TIME OF THE INSPECTIONS, THE LICENSEE HAD NINE CIRCUIT BREAKERS WITH UNCONFIRMED SEISMIC QUALIFICATION AND VOLTAGE RATINGS INSTALLED IN SAFETY-RELATED MOTOR CONTROL CENTERS AT FARLEY NUCLEAR PLANT UNITS 1 AND 2. THE CIRCUIT BREAKERS WERE SOLD BY SATIN AMERICAN CORPORATION AS SEISMICALLY QUALIFIED SAFETY-RELATED CIRCUIT BREAKERS ACCEPTABLE FOR INSTALLATION INTO 600-V MOTOR CONTROL CENTERS. THE VENDOR PROVIDED ADEQUATE JUSTIFICATION FOR SEISMIC AND 600-V QUALIFICATION. NO TESTING ANALYSIS THAT WOULD QUALIFY THE USE OF THESE BREAKERS AS INSTALLED HAD BEEN DONE EITHER BY THE LICENSEE OR THE VENDOR. MOREOVER, ALTHOUGH THE VENDOR REPRESENTED THAT THE CIRCUIT BREAKERS WERE FULLY QUALIFIED FOR 600-V APPLICATIONS, THE LICENSEE SHOULD HAVE BEEN ALERTED TO A POSSIBLE PROBLEM SINCE THE BREAKERS WERE STILL AFFIXED WITH AN UNDERWRITERS LABORATORIES, INC. RATING OF 480-V. CONTRARY TO 10 CFR PART 50, CRITERION XVI, THE INSPECTORS IDENTIFIED FIVE INSTANCES WHERE AT THE TIME OF THE INSPECTIONS, THE LICENSEE HAD FAILED TO TAKE ADEQUATE CORRECTIVE ACTION. CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION X, ON JUNE 2, 1987, BOTH TRAIN B, 125-V SERVICE WATER (SW) BATTERY RACKS, WERE FOUND TO BE IMPROPERLY INSTALLED AND MOUNTED CREATING AN UNANALYZED CONDITION CONCERNING SEISMIC QUALIFICATION. SPECIFICALLY, THE CONCRETE ANCHOR BOLT NUTS ON ALL TRAIN B BATTERY RACK ANCHORS WERE BACKED OFF AND USED AS LEVELING NUTS FOR THE RACK, THUS PROVIDING NO PRELOAD ON THE CONCRETE ANCHORS. THE BATTERY RACKS WERE IMPROPERLY INSTALLED IN THE SW TRAIN B BATTERY ROOM APPROXIMATELY ONE YEAR PRIOR TO THIS INSPECTION AND REMAINED IN THIS UNANALYZED CONDITION UNTIL IT WAS IDENTIFIED BY THE NRC INSPECTOR ON JUNE 2, 1987. CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION III, THE LICENSEE INSTALLED A NUMBER OF COMMERCIAL GRADE PARTS AT FARLEY NUCLEAR PLANT UNITS 1 AND 2 WITHOUT ADEQUATELY EVALUATING THEIR SUITABILITY FOR USE IN SAFETY-RELATED APPLICATIONS. THESE PARTS WERE IN USE AT THE TIME OF THE INSPECTIONS INDICATED. THERE WERE 5 EXAMPLES GIVEN. CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION VII, AT THE TIME OF THE INSPECTIONS, THE LICENSEE HAD NINE CIRCUIT BREAKERS WITH UNCONFIRMED SEISMIC QUALIFICATION AND VOLTAGE RATINGS INSTALLED IN SAFETY-RELATED MOTOR CONTROL CENTERS AT FARLEY NUCLEAR PLANT UNITS 1 AND 2. THE CIRCUIT BREAKERS WERE SOLD BY SATIN AMERICAN CORPORATION AS SEISMICALLY QUALIFIED SAFETY-RELATED CIRCUIT BREAKERS ACCEPTABLE FOR INSTALLATION INTO 600-V MOTOR CONTROL CENTERS. THE VENDOR PROVIDED ADEQUATE JUSTIFICATION FOR SEISMIC AND 600-V QUALIFICATION. NO TESTING ANALYSIS THAT WOULD QUALIFY THE USE OF THESE BREAKERS AS INSTALLED HAD BEEN DONE EITHER BY THE LICENSEE OR THE VENDOR. MOREOVER, ALTHOUGH THE VENDOR REPRESENTED THAT THE CIRCUIT BREAKERS WERE FULLY QUALIFIED FOR 600-V APPLICATIONS, THE LICENSEE SHOULD HAVE BEEN ALERTED TO A POSSIBLE PROBLEM SINCE THE BREAKERS WERE STILL AFFIXED WITH AN UNDERWRITERS LABORATORIES, INC. RATING OF 480-V.  
(8701 3)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):



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1. Docket: 50-364 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. D. WOODARD (205) 899-5156

4. Licensed Thermal Power (Mwt): 2652

5. Nameplate Rating (Gross MWe): 860

6. Design Electrical Rating (Net MWe): 829

7. Maximum Dependable Capacity (Gross MWe): 864

8. Maximum Dependable Capacity (Net MWe): 823

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any:           
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>57,745.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>49,328.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>138.4</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>48,688.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,806,542</u>	<u>3,778,431</u>	<u>124,730,551</u>
18. Gross Elec Ener (MWH)	<u>601,378</u>	<u>1,260,990</u>	<u>40,464,084</u>
19. Net Elec Ener (MWH)	<u>572,834</u>	<u>1,201,866</u>	<u>38,353,604</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>84.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>84.3</u>
22. Unit Cap Factor (MDC Net)	<u>100.0</u>	<u>101.4</u>	<u>80.7</u>
23. Unit Cap Factor (DER Net)	<u>99.3</u>	<u>100.7</u>	<u>80.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>5.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,690.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

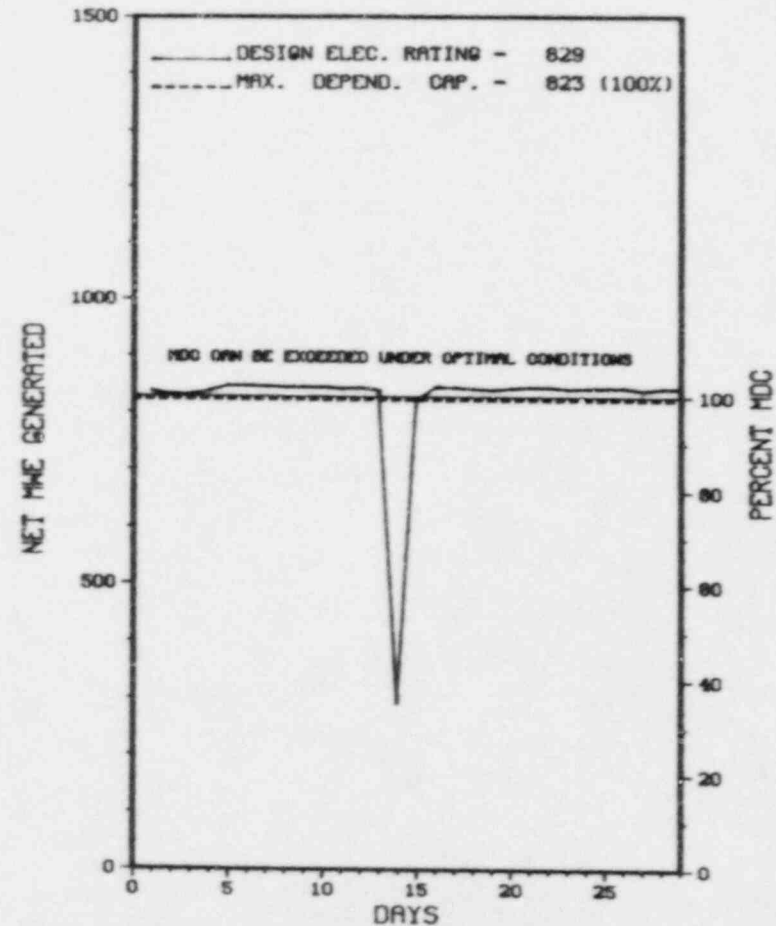
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
X FARLEY 2 X  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FARLEY 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* FARLEY 2 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
001	02/13/88	F	0.0	A	5		SB	FIT	POWER REDUCTION TO ALLOW A CONTAINMENT ENTRY TO REPAIR A STEAM LEAK ON CONDENSING POT TUBING ON A 2B STEAM GENERATOR FLOW TRANSMITTER.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
FARLEY 2 INCURRED 1 POWER REDUCTION IN FEBRUARY TO REPAIR A STEAM LEAK.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* FARLEY 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....ALABAMA  
  
COUNTY.....HOUSTON  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...28 MI SE OF  
DOTHAN, ALA  
  
TYPE OF REACTOR.....PWR  
  
DATE INITIAL CRITICALITY...MAY 5, 1981  
  
DATE ELEC ENER 1ST GENER...MAY 25, 1981  
  
DATE COMMERCIAL OPERATE...JULY 30, 1981  
  
CONDENSER COOLING METHOD...COOLING TOWER  
  
CONDENSER COOLING WATER...CHATAHOOCHEE RIVER  
  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY  
LICENSEE.....ALABAMA POWER CO.  
  
CORPORATE ADDRESS.....600 NORTH 18TH STREET  
BIRMINGHAM, ALABAMA 35203  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....SOUTHERN SERVICES INCORPORATED  
  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
  
CONSTRUCTOR.....BECHTEL  
  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
  
IE RESIDENT INSPECTOR.....W. BRADFORD  
  
LICENSING PROJ MANAGER.....E. REEVES  
DOCKET NUMBER.....50-364  
  
LICENSE & DATE ISSUANCE...NPF-8, MARCH 31, 1981  
  
PUBLIC DOCUMENT ROOM.....HOUSTON/LOVE MEMORIAL LIBRARY  
212 W. BURDESHAW STREET  
DOTHAN, ALABAMA 36302

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 2-20 (87-30): THIS SPECIAL, ANNOUNCED INSPECTION WAS IN THE AREA OF ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRICAL EQUIPMENT AND INCLUDED A REVIEW OF ALABAMA POWER COMPANY'S (APCO) IMPLEMENTATION OF THE REQUIREMENTS OF 10 CFR 50.49; PLANT WALKDOWN INSPECTIONS OF ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49; A REVIEW OF THE LICENSEE'S CORRECTIVE ACTIONS FOR PREVIOUSLY IDENTIFIED EQ DEFICIENCIES; AND A REVIEW OF THEIR EVALUATIONS OF THESE FINDINGS ON HOW THEY EFFECT RESTART OF UNIT 2 AND CONTINUED OPERATION OF UNIT 1. ELEVEN VIOLATIONS WERE IDENTIFIED AND ARE DISCUSSED.

INSPECTION DECEMBER 2-4 (87-35): THIS REACTIVE, UNANNOUNCED INSPECTION WAS CONDUCTED TO ASSESS LICENSEE ACTIONS IN RESPONSE TO AN EVENT WHICH OCCURRED ON NOVEMBER 27, 1987, INVOLVING A SPILL INSIDE CONTAINMENT FROM THE RESIDUAL HEAT REMOVAL (RHR) SYSTEM. ONE VIOLATION WAS IDENTIFIED INVOLVING TWO EXAMPLES OF FAILURE TO ESTABLISH AND IMPLEMENT PROCEDURES. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 4-6 (88-02): THIS WAS A SPECIAL, ANNOUNCED INSPECTION TO REVIEW THE CIRCUMSTANCES SURROUNDING THE UNAUTHORIZED ENTRY OF LICENSEE PERSONNEL INTO A HIGH RADIATION AREA. FOUR VIOLATIONS WERE IDENTIFIED: FAILURE TO ADEQUATELY CONTROL ACCESS TO A HIGH RADIATION AREA; FAILURE TO FOLLOW PROCEDURES; FAILURE TO PERFORM AN ADEQUATE SURVEY, AND; FAILURE TO ADEQUATELY INSTRUCT INDIVIDUALS WORKING IN OR FREQUENTING A RESTRICTED AREA.

INSPECTION JANUARY 12 - FEBRUARY 10 (88-03): THIS ROUTINE, ON-SITE INSPECTION INVOLVED A REVIEW OF SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, AND LICENSEE EVENT REPORTS AND ENGINEERED SAFETY SYSTEMS. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO PROVIDE FIRE WATCH WITH BACKUP FIRE SUPPRESSION EQUIPMENT FOR FIRE PROTECTION SUPPRESSION SYSTEMS WHICH WERE OUT OF SERVICE; FAILURE TO FOLLOW PROCEDURES TO MAINTAIN





1. Docket: 50-341                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: P. M. ANTHONY (313) 586-1617

4. Licensed Thermal Power (MWt):                      3292

5. Nameplate Rating (Gross MWe):                      1215

6. Design Electrical Rating (Net MWe):                      1093

7. Maximum Dependable Capacity (Gross MWe):                      1093

8. Maximum Dependable Capacity (Net MWe):                      1093

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe):

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>902.0</u>	<u>902.0</u>
13. Hours Reactor Critical	<u>624.7</u>	<u>830.7</u>	<u>830.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-line	<u>624.3</u>	<u>830.3</u>	<u>830.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,458,024</u>	<u>2,066,876</u>	<u>2,066,876</u>
18. Gross Elec Ener (MWH)	<u>464,095</u>	<u>670,845</u>	<u>670,845</u>
19. Net Elec Ener (MWH)	<u>441,829</u>	<u>639,601</u>	<u>639,601</u>
20. Unit Service Factor	<u>89.7</u>	<u>92.1</u>	<u>92.1</u>
21. Unit Avail Factor	<u>89.7</u>	<u>92.1</u>	<u>92.1</u>
22. Unit Cap Factor (MDC Net)	<u>58.1</u>	<u>64.9</u>	<u>64.9</u>
23. Unit Cap Factor (DER Net)	<u>58.1</u>	<u>64.9</u>	<u>64.9</u>
24. Unit Forced Outage Rate	<u>10.3</u>	<u>7.9</u>	<u>7.9</u>
25. Forced Outage Hours	<u>71.7</u>	<u>71.7</u>	<u>71.7</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

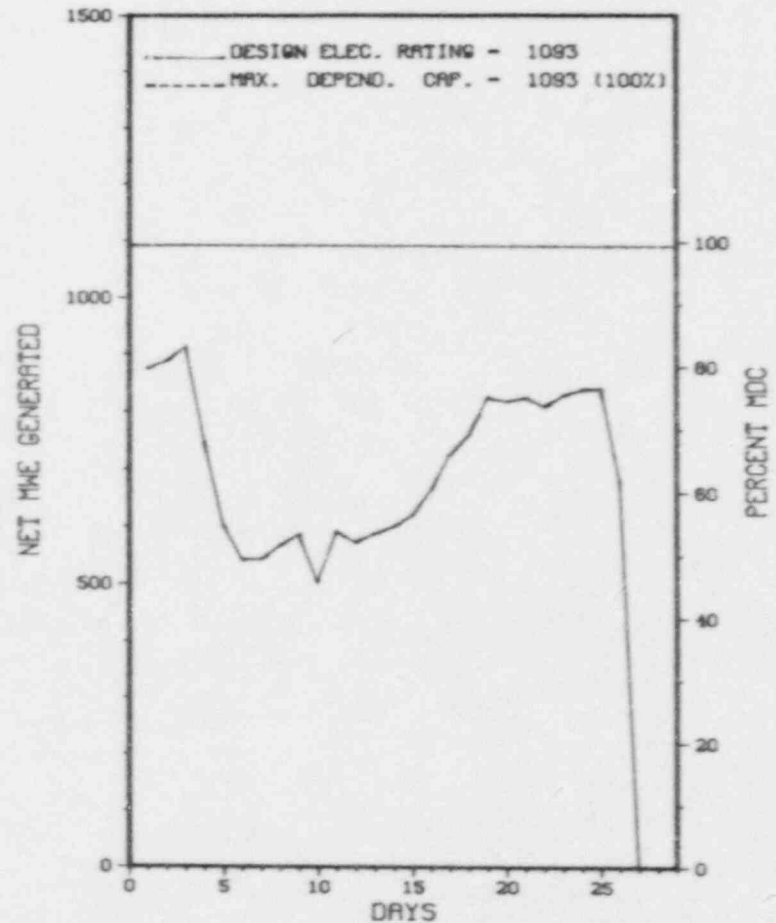
NONE

27. If Currently Shutdown Estimated Startup Date: 04/05/88

\*\*\*\*\*  
 \*                      F E R M I   2                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

F E R M I   2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* FERM 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/27/88	F	71.7	B	1	87-018	EK	VE	FERMI 2 HAS SHUTDOWN FEBRUARY 27, 1988, BEFORE A SCHEDULED PLANT SHUTDOWN WAS TO BEGIN. A REVIEW OF THE EMERGENCY DIESEL GENERATOR BUSES REVEALED THAT IN THE PAST TECHNICAL SPECIFICATION REQUIRED FUNCTIONAL TESTING WAS INCOMPLETE. CORRECTIVE ACTION WILL BE TO REVISE THE SURVEILLANCE PROCEDURES AND TO INCLUDE THE ADDITIONAL LOGIC SYSTEM FUNCTIONAL TESTING. CURRENTLY FERMI 2 IS IN AN LLRT OUTAGE WHICH IS SCHEDULED TO LAST UNTIL APRIL 5, 1988.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 FERMJ 2 INCURRED 1 OUTAGE IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* FERM I 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MICHIGAN  
  
COUNTY.....MONROE  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...LAGUNA BEACH, MICH  
  
TYPE OF REACTOR.....BWR  
  
DATE INITIAL CRITICALITY...JUNE 21, 1985  
  
DATE ELEC ENER 1ST GENER...SEPTEMBER 21, 1986  
  
DATE COMMERCIAL OPERATE...JANUARY 23, 1988  
  
CONDENSER COOLING METHOD...ONCE THRU  
  
CONDENSER COOLING WATER...LAKE ERIE  
  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DETROIT EDISON  
  
CORPORATE ADDRESS.....2000 SECOND AVENUE  
DETROIT, MICHIGAN 48226  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
  
CONSTRUCTOR.....DANIEL INTERNATIONAL  
  
TURBINE SUPPLIER.....NONE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
  
IE RESIDENT INSPECTOR.....W. ROGERS  
  
LICENSING PROJ MANAGER....T. QUAY  
DOCKET NUMBER.....50-341  
  
LICENSE & DATE ISSUANCE...NPF-43, JULY 15, 1985  
  
PUBLIC DOCUMENT ROOM.....MONROE COUNTY LIBRARY SYSTEM  
3700 SOUTH CUSTER ROAD  
MONROE, MI. 48161

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON AUGUST 24 THROUGH DECEMBER 28 (87047): SPECIAL INSPECTION OF ALLEGATIONS PERTAINING TO FITNESS FOR DUTY ISSUES. FOUR ALLEGATIONS WERE REVIEWED. THEY PERTAINED TO (1) INADEQUATE CONTROLS FOR DRUG TEST URINE SAMPLES; (2) EXCESSIVE ALCOHOL USE AND DRUG USE BY EMPLOYEES AT OFFSITE LOCATIONS; (3) PERSONNEL WORKING WHILE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL; AND (4) STRONG ODOR OF MARIJUANA AT AREAS WITHIN THE PLANT. THE ALLEGATIONS PERTAINING TO INADEQUATE CONTROLS FOR DRUG TEST URINE SAMPLES AND EXCESSIVE USE OF ALCOHOL AND DRUGS AT OFFSITE LOCATIONS WERE NOT SUBSTANTIATED. THE ALLEGATION PERTAINING TO STRONG ODOR OF MARIJUANA WITHIN THE PLANT WAS DETERMINED TO BE A CONCERN DURING PLANT CONSTRUCTION, BUT WAS NOT A CURRENT CONCERN. THE ALLEGATION PERTAINING TO PERSONNEL WORKING WHILE UNDER THE INFLUENCE OF DRUGS WAS SUBSTANTIATED FOR PERSONNEL WHO HAD POSITIVE DRUG SCREENING TEST RESULTS. THE LICENSEE'S ACTIONS FOR PERSONNEL WITH POSITIVE DRUG TEST RESULTS APPEAR ADEQUATE.

INSPECTION ON JANUARY 11-15 (88004): ROUTINE, ANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE FERMI NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS PROGRAM: ACTION ON PREVIOUSLY-IDENTIFIED ITEMS; EMERGENCY PLAN ACTIVATIONS; LER REVIEW; OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM; DOSE ASSESSMENT; NOTIFICATIONS AND COMMUNICATIONS; SHIFT STAFFING AND AUGMENTATION; EMERGENCY PREPAREDNESS TRAINING; LICENSEE AUDITS; AND A DRILL OBSERVATION. THE INSPECTION INVOLVED THREE NRC INSPECTORS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON NOVEMBER 10 THROUGH DECEMBER 28 (87046): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS, IE BULLETINS, GENERIC LETTERS, LICENSEE EVENT REPORTS, REGIONAL REQUESTS, OPERATIONS, MAINTENANCE, SURVEILLANCE, TMI ITEMS, STARTUP TEST PHASE RESULT VERIFICATION, STARTUP TEST PHASE RESULT REVIEWS, STARTUP TEST WITNESSING AND OBSERVATION, EVENTS, REPORT REVIEW, AND MANAGEMENT MEETINGS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. ONE OPEN ITEM WAS



Report Period FEB 1988

R E P O R T S F R O M L I C E N S E E

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X F E R M I 2 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-04	011088	020988	HIGH PRESSURE COOLANT INJECTION AND REACTOR CORE ISOLATION COOLING ACTUATED FOLLOWING A REACTOR SCRAM
88-05	011188	021088	REACTOR PRESSURE EXCEEDS 150 PSIG WITHOUT HIGH PRESSURE COOLING INJECTION OR REACTOR CORE ISOLATION COOLING BEING IN STANDBY

=====

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1. Docket: 50-333 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. COOK (315) 349-6569

4. Licensed Thermal Power (Mwt): 2436

5. Nameplate Rating (Gross MWe): 981 X 0.9 = 883

6. Design Electrical Rating (Net MWe): 816

7. Maximum Dependable Capacity (Gross MWe): 823

8. Maximum Dependable Capacity (Net MWe): 794

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

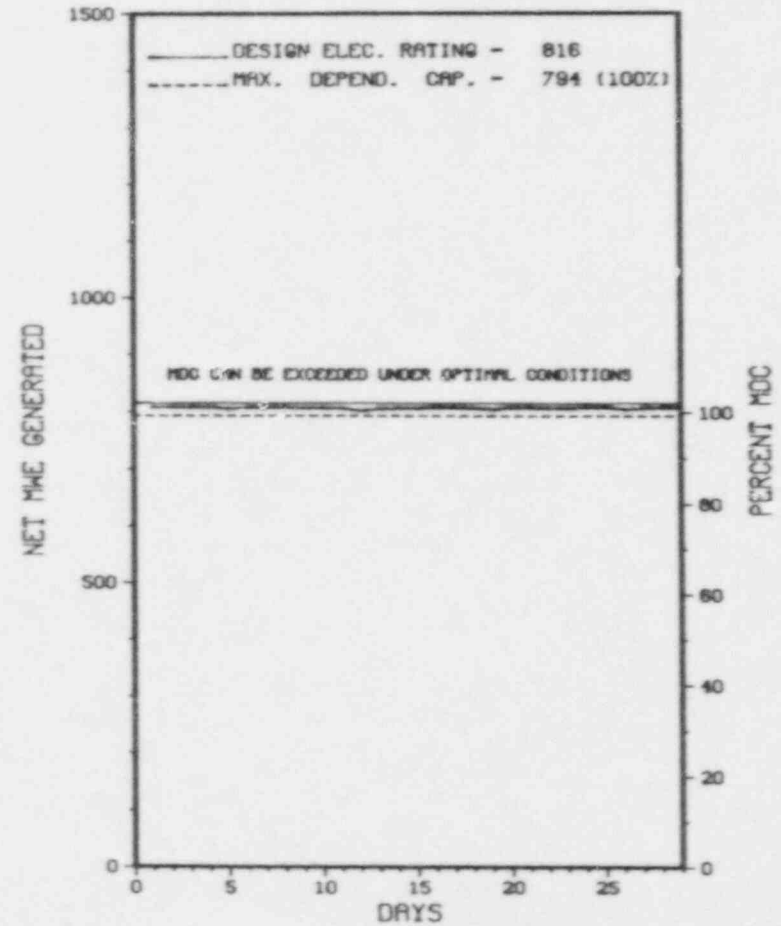
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>110,401.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,058.3</u>	<u>80,711.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,018.9</u>	<u>78,372.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,693,464</u>	<u>2,431,392</u>	<u>169,657,708</u>
18. Gross Elec Ener (MWH)	<u>583,080</u>	<u>832,430</u>	<u>57,439,830</u>
19. Net Elec Ener (MWH)	<u>561,835</u>	<u>801,920</u>	<u>55,580,390</u>
20. Unit Service Factor	<u>100.0</u>	<u>70.8</u>	<u>71.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>70.8</u>	<u>71.0</u>
22. Unit Cap Factor (MDC Net)	<u>101.7</u>	<u>70.1</u>	<u>64.8*</u>
23. Unit Cap Factor (DER Net)	<u>98.9</u>	<u>68.2</u>	<u>61.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>11.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,337.5</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUEL - AUG. 22, 1988 - 86 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* FITZPATRICK \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
FITZPATRICK



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* FITZPATRICK \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
FITZPATRICK OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* FITZPATRICK \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW YORK  
COUNTY.....OSWEGO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...8 MI NE OF  
OSWEGO, NY  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...NOVEMBER 17, 1974  
DATE ELEC ENER 1ST GENER...FEBRUARY 1, 1975  
DATE COMMERCIAL OPERATE....JULY 28, 1975  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE ONTARIO  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NEW YORK POWER AUTHORITY  
CORPORATE ADDRESS.....10 COLUMBUS CIRCLE  
NEW YORK, NEW YORK 10019  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....A. LUPTAK  
LICENSING PROJ MANAGER....H. ABELSON  
DOCKET NUMBER.....50-333  
LICENSE & DATE ISSUANCE...DPR-59, OCTOBER 17, 1974  
PUBLIC DOCUMENT ROOM.....STATE UNIVERSITY COLLEGE OF OSWEGO  
PENFIELD LIBRARY - GOVERNMENT DOCUMENTS COL  
OSWEGO, NY 13126  
(315) 341-2323

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):



1. Docket: 50-285 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: T. P. MATTHEWS (402) 536-4733

4. Licensed Thermal Power (Mwt): 1500

5. Nameplate Rating (Gross MWe): 591 X 0.85 = 502

6. Design Electrical Rating (Net MWe): 478

7. Maximum Dependable Capacity (Gross MWe): 502

8. Maximum Dependable Capacity (Net MWe): 478

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

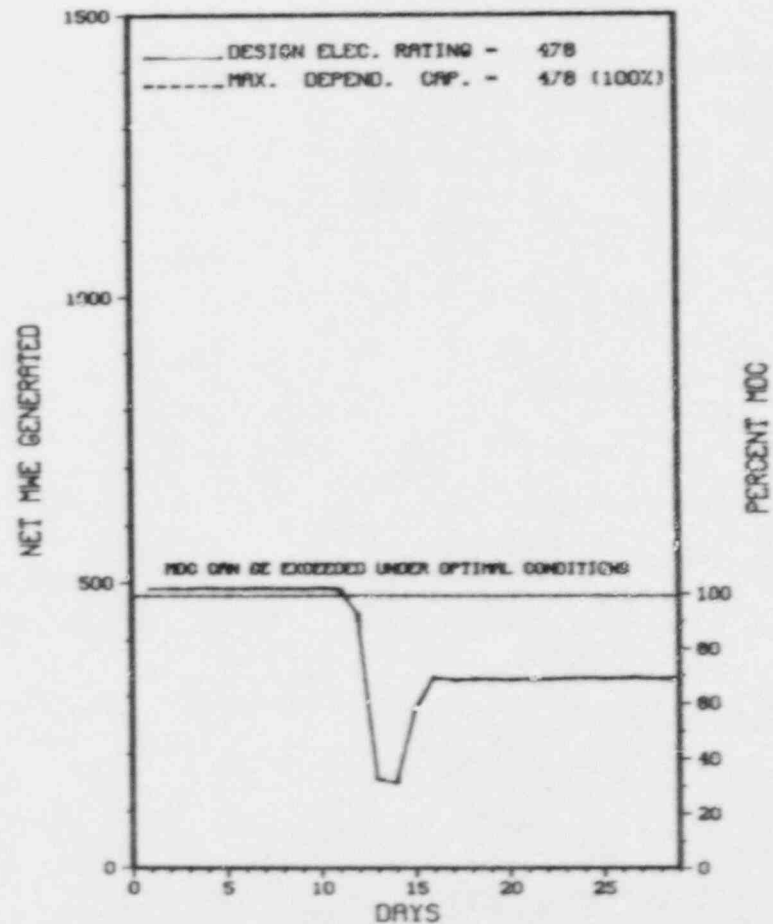
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>126,505.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>98,999.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,309.5</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>97,308.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>827,925</u>	<u>1,937,280</u>	<u>126,466,897</u>
18. Gross Elec Ener (MWH)	<u>280,926</u>	<u>662,282</u>	<u>41,947,058</u>
19. Net Elec Ener (MWH)	<u>265,379</u>	<u>630,191</u>	<u>39,774,259</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>76.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>76.9</u>
22. Unit Cap Factor (MDC Net)	<u>79.9</u>	<u>91.6</u>	<u>67.9*</u>
23. Unit Cap Factor (DER Net)	<u>79.9</u>	<u>91.6</u>	<u>65.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>3.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>1,857.6</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* FORT CALHOUN 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
FORT CALHOUN 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* FORT CALHOUN 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/12/88	S	0.0	H	5		BK	FAN	ON FEBRUARY 12, 1988, A POWER REDUCTION COMMENCED TO REPAIR A NUCLEAR DETECTOR WELL COOLING FAN IN CONTAINMENT. POWER WAS HELD AT 35% WHILE REPAIRS WERE MADE AND POWER WAS THEN RETURNED TO 70% ON FEBRUARY 15, 1988. POWER WILL REMAIN AT 70% FOR APPROXIMATELY SEVEN WEEKS TO EXTEND THE FUEL BURNUP WINDOW TO THE DESIRED SHUTDOWN REFUELING DATE IN SEPTEMBER.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 FORT CALHOUN INCURRED 1 POWER REDUCTION IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Lead	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APP.B, MEASURES WERE NOT ESTABLISHED TO PREVENT THE ACCEPTANCE OF ELECTRICAL CABLES PURCHASED TO P.O. 526016, WHOSE MATERIAL TEST REPORT WAS NOT SUFFICIENT TO ENSURE THAT PROCUREMENT SPECIFICATION REQUIREMENTS WERE MET.  
(8601 5)

TECH. SPEC. 5.11.2 REQUIRES THAT ENTRANCE INTO EACH HIGH RADIATION AREA IN WHICH THE INTENSITY OF RADIATION IS GREATER THAN 1000 MREM/HR SHALL BE CONTROLLED BY THE USE OF LOCKED DOORS TO PREVENT UNAUTHORIZED ENTRY. CONTRARY TO THE ABOVE, AT APPROXIMATELY 10:30 A.M. ON 9/9/87, THE DOOR TO THE SPENT FUEL STORAGE POOL HEAT EXCHANGER, PUMP, AND FILTER ROOM, A VERY HIGH RADIATION AREA, WAS UNLOCKED. CONTRARY TO THE ABOVE, AT APPROXIMATELY 2:30 P.M. ON 10/14/87, THE DOOR TO ROOM #11 IN THE AUXILIARY BUILDING, A VERY HIGH RADIATION AREA, WAS UNLOCKED. THESE ARE REPEAT VIOLATIONS. TECH. SPEC. 5.11, RADIATION PROTECTION PROGRAM, REQUIRES THAT PROCEDURES FOR PERSONNEL RADIATION PROTECTION SHALL BE PREPARED CONSISTENT WITH THE REQUIREMENTS OF 10 CFR PART 20 AND ADHERED TO FOR ALL OPERATIONS INVOLVING PERSONNEL RADIATION EXPOSURE. THE FCS RADIATION PROTECTION MANUAL PROVIDES PROCEDURES TO IMPLEMENT THE REQUIREMENTS OF TECH. SPEC. 5.11. SEC. 3.1.7.2.B OF THE MANUAL, PROVIDES THAT AN INDIVIDUAL PERMITTED TO ENTER A VERY HIGH RADIATION AREA SHALL BE PROVIDED CONTINUOUS HEALTH PHYSICS COVERAGE BY A TECHNICIAN WHO IS EQUIPPED WITH A RADIATION DOSE RATE INSTRUMENT. CONTRARY TO THE ABOVE, ON 9/9/87, AN AUXILIARY BUILDING EQUIPMENT OPERATOR ENTERED ROOM #5 WITHOUT OBTAINING CONTINUOUS HEALTH PHYSICS COVERAGE BY A TECHNICIAN EQUIPPED WITH A RADIATION DOSE RATE INSTRUMENT.  
(8702 3)

10 CFR 50.73 REQUIRES THAT THE HOLDER OF AN OPERATING LICENSE FOR A NUCLEAR POWER PLANT SHALL SUBMIT A LICENSEE EVENT REPORT (LER) FOR ANY CONDITION PROHIBITED BY THE PLANT'S TECH.SPEC. WITHIN 30 DAYS AFTER THE DISCOVERY OF THE EVENT. TECH. SPEC. 5.11.2 STATES THAT EACH HIGH RADIATION AREA IN WHICH THE INTENSITY OF RADIATION IS GREATER THAN 1000 MEM/HR SHALL BE PROVIDED WITH LOCKED DOORS TO PREVENT UNAUTHORIZED ENTRY. CONTRARY TO THE ABOVE THE LICENSEE FAILED TO SUBMIT AN LER WITHIN 30 DAYS FOR A CONDITION PROHIBITED BY THE TECH.SPEC., I.E., A VERY HIGH RADIATION AREA CONSISTING OF ROOM #5 WHICH HAD A DOOR UNLOCKED ON 9/9/87. CONTRARY TO CRITERION V OF APP.B & QAP SECTION 5.1, THE LICENSEE FAILED TO ESTABLISH A PROCEDURE FOR CONTROL OF TEMPORARY SCAFFOLDING BEING ERRECTED IN AREAS CONTAINING SAFETY-RELATED EQUIPMENT. CONTRARY TO CRITERION V OF APP.B & QAP SECTION 6.4 OF THE LICENSEE'S QAP, THE LICENSEE FAILED TO FOLLOW THE PROCEDURE RELATED TO CONTROL OF GAS CYLINDERS IN THE AUXILIARY BUILDING. CONTRARY TO ANSI-18.7-1972, SEC.5 AND THE QAP, SEC. 6.2, THE LICENSEE FAILED TO PROVIDE POST - MAINTENANCE TESTING INSTRUCTIONS FOR RETURNING SAFETY RELATED EQUIPMENT TO SERVICE SUBSEQUENT TO MAINTENANCE.

CONTRARY TO ITEM 8 OF TABLE 2-10 OF THE TECHNICAL SPEC. THE LICENSEE FAILED TO MEET THE LCO OPERABILITY REQUIREMENTS FOR THE CORE EXIT THERMOCOUPLE SYSTEM.

(8702 4)

CONTRARY TO 10 CFR PART 21.6 & SECTION 7.6.2 OF PROCEDURE NPD-H-2, THE LICENSEE FAILED TO POST UP-TO-DATE DOCUMENTS, AS REQUIRED BY PART 21.  
(8702 5)

KEY IN VEHICLE. SAFEGUARDS INFO.  
(8703 4)

UNVERIFIED SUITABILITY DOCUMENTS. SAFEGUARDS INFO  
(8703 5)

ACCESS CONTROL - PERSONNEL. SAFEGUARDS INFO.  
(8800 4)

CRITERION V OF APP.B TO 10 CFR 50 STATES THAT ACTIVITIES AFFECTING QUALITY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INSTRUCTIONS, PROCEDURES, OR DRAWINGS. PARAG. 4.2.1 OF SEC.2.1 OF THE LICENSEE'S QUALITY ASS. MANUAL STATES THAT "ACTIVITIES AFFECTING SAFETY SHALL BE.... ACCOMPLISHED IN ACCORDANCE WITH THESE INSTRUCTIONS AND PROCEDURES." FT. CALHOUN STATION STANDING ORDER G-21,



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1. Docket: 50-267 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: FRANK NOVACHEK (303) 785-2224  
 4. Licensed Thermal Power (Mht): 842  
 5. Nameplate Rating (Gross MWe): 403 X 0.85 = 343  
 6. Design Electrical Rating (Net MWe): 330  
 7. Maximum Dependable Capacity (Gross MWe): 342  
 8. Maximum Dependable Capacity (Net MWe): 330  
 9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): 271  
 11. Reasons for Restrictions, If Any:

REANALYSIS OF SAFE SHUTDOWN COOLING.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>75,985.0</u>
13. Hours Reactor Critical	<u>661.1</u>	<u>1,405.1</u>	<u>34,806.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>619.2</u>	<u>1,363.2</u>	<u>22,944.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>240,383</u>	<u>643,246</u>	<u>11,424,655</u>
18. Gross Elec Ener (MWH)	<u>80,603</u>	<u>232,034</u>	<u>3,774,548</u>
19. Net Elec Ener (MWH)	<u>74,632</u>	<u>218,094</u>	<u>3,347,069</u>
20. Unit Service Factor	<u>89.0</u>	<u>94.7</u>	<u>30.2</u>
21. Unit Avail Factor	<u>89.0</u>	<u>94.7</u>	<u>30.2</u>
22. Unit Cap Factor (MDC Net)	<u>32.5</u>	<u>45.9</u>	<u>13.3</u>
23. Unit Cap Factor (DER Net)	<u>32.5</u>	<u>45.9</u>	<u>13.3</u>
24. Unit Forced Outage Rate	<u>11.0</u>	<u>5.3</u>	<u>62.8</u>
25. Forced Outage Hours	<u>76.8</u>	<u>76.8</u>	<u>38,753.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

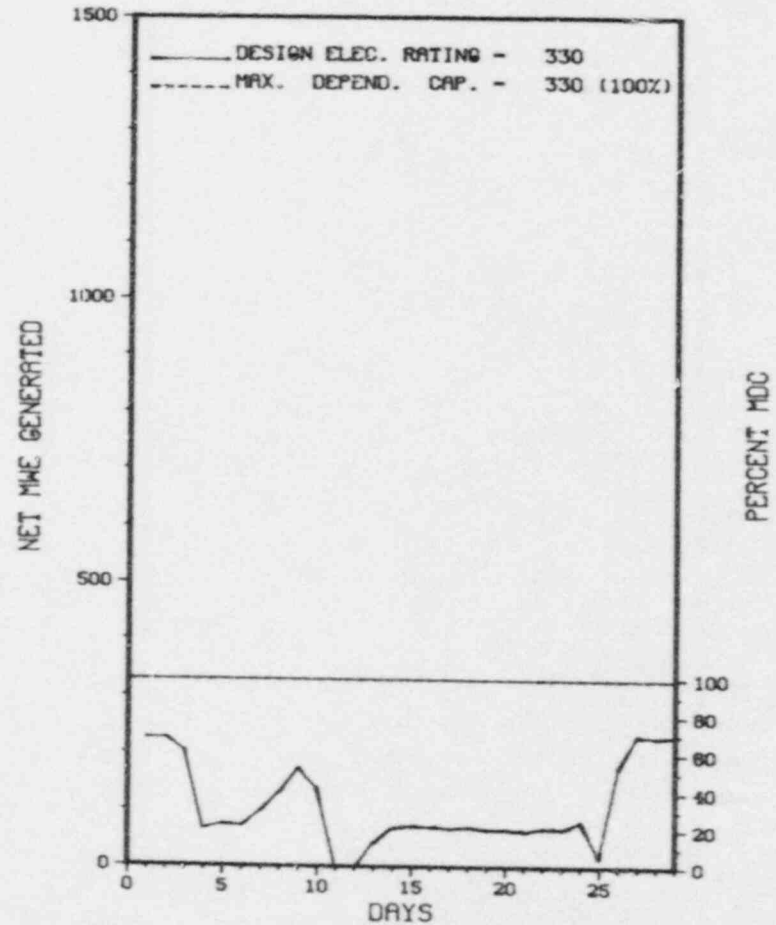
REPAIRS - MARCH 12, 1988 - 96 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* FORT ST VRAIN \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FORT ST VRAIN



FEBRUARY 1980

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* FORT ST VRAIN \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-03	02/03/88	F	0.0	A	5		JA	SIC	D HELIUM CIRCULATOR TRIP AND POWER REDUCTION DUE TO SPEED CABLE PROBLEMS.
88-04	02/10/88	F	63.4	H	2	88-002	JA	SIC	MANUAL REACTOR SCRAM FOLLOWING 3 HELIUM CIRCULATOR TRIPS DUE TO MISCONNECTED SPEED CABLE. POSITIVE CONTROL OF SPEED CABLE INSTALLATION INSTITUTED.
88-05	02/24/88	F	13.4	A	9		SB	PIS	TURBINE TRIP ON FALSE LOW MAIN STEAM PRESSURE INDICATION DUE TO FAULTY VALVE. REPAIRED V-5297.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 FORT ST. VRAIN INCURRED 2 OUTAGES AND 1 POWER REDUCTION IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)

\*\*\*\*\*  
\* FORT ST VRAIN \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....COLORADO  
COUNTY.....WELD  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...35 MI N OF  
DENVER, COL  
TYPE OF REACTOR.....HTGR  
DATE INITIAL CRITICALITY...JANUARY 31, 1974  
DATE ELEC ENER 1ST GENER...DECEMBER 11, 1976  
DATE COMMERCIAL OPERATE...JULY 1, 1979  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...S. PLATTE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PUBLIC SERVICE OF COLORADO  
CORPORATE ADDRESS.....P.O. BOX 840  
DENVER, COLORADO 80201  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ATOMIC CORP.  
CONSTRUCTOR.....EBASCO  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV  
IE RESIDENT INSPECTOR.....R. FARRELL  
LICENSING PROJ MANAGER.....K. HEITNER  
DOCKET NUMBER.....50-267  
LICENSE & DATE ISSUANCE...DPR-34, DECEMBER 21, 1973  
PUBLIC DOCUMENT ROOM.....GREELEY PUBLIC LIBRARY  
CITY COMPLEX BUILDING  
GREELEY, COLORADO 80631

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION CONDUCTED NOV. 22 - DEC. 31, 1987 (87-34) ROUTINE, UNANNOUNCED INSPECTION OF FOLLOWUP OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED INSPECTION FINDINGS, OPERATIONAL SAFETY VERIFICATION, FOLLOWUP OF ALLEGATION 4-86-A-119, FOLLOWUP OF BULLETIN 87-02, CRITICAL ROD HEIGHT PREDICTIONS, DESIGN CONTROL, PROCEDURAL ADEQUANCY AND COMPLIANCE, ENGINEERED SAFETY FEATURES WALKDOWN, RESERVE SHUTDOWN SYSTEM, REGION PEAKING FACTOR SURVEILLANCE, MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, RADIOLOGICAL PROTECTION, AND MONTHLY SECURITY OBSERVATION. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

INSPECTION CONDUCTED JAN. 1-31, 1988 (88-01) ROUTINE, UNANNOUNCED INSPECTION OF OPERATIONAL SAFETY VERIFICATION, FOLLOWUP OF NRC BULLETIN, LICENSEE ACTION ON LICENSEE EVENT REPORTS (LERS), CORE SAFETY LIMIT, MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, RADIOLOGICAL PROTECTION, AND MONTHLY SECURITY OBSERVATION. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JAN. 25-29, 1988 (88-02) ROUTINE, UNANNOUNCED INSPECTION OF CHANGES TO THE EMERGENCY PLAN, SHIFT STAFFING AND AUGMENTATION, KNOWLEDGE AND PERFORMANCE OF DUTIES, AND OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY



1. Docket: 50-244                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: ANDREW MC NAMARA (315) 524-4446

4. Licensed Thermal Power (Mwt):                      1520

5. Nameplate Rating (Gross MWe):                      608 X 0.85 = 517

6. Design Electrical Rating (Net MWe):                      470

7. Maximum Dependable Capacity (Gross MWe):                      490

8. Maximum Dependable Capacity (Net MWe):                      470

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

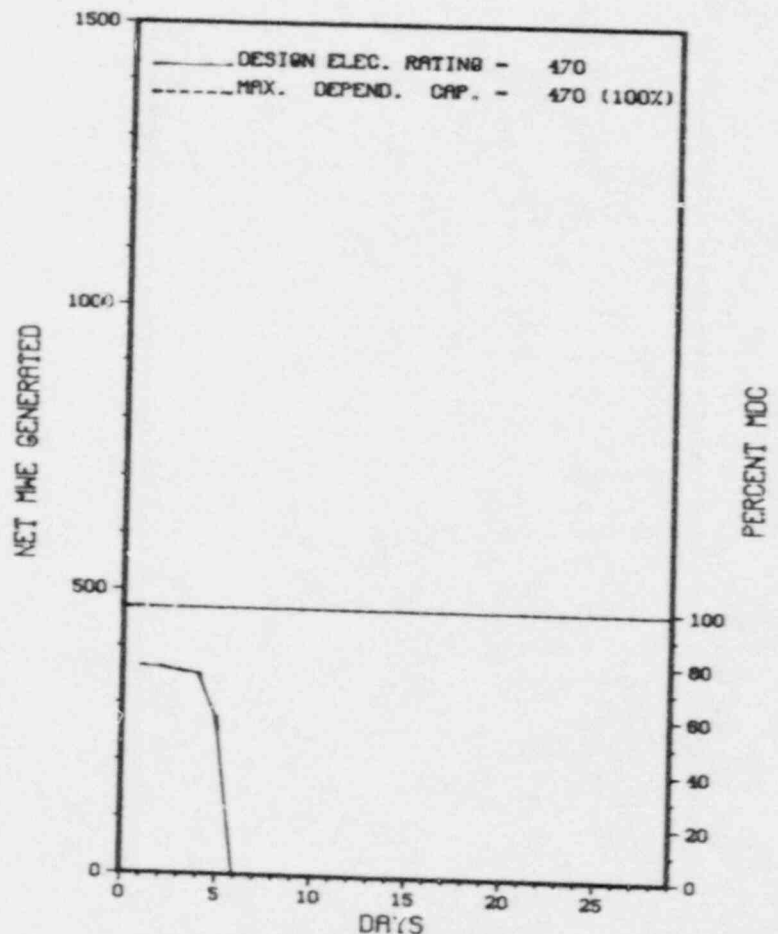
11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>160,080.0</u>
13. Hours Reactor Critical	<u>114.9</u>	<u>858.9</u>	<u>124,876.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,687.7</u>
15. Hrs Generator On-Line	<u>114.3</u>	<u>858.3</u>	<u>122,506.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>8.5</u>
17. Gross Therm Ener (MWH)	<u>125,990</u>	<u>1,155,720</u>	<u>172,083,053</u>
18. Gross Elec Ener (MWH)	<u>42,323</u>	<u>390,707</u>	<u>56,518,293</u>
19. Net Elec Ener (MWH)	<u>39,625</u>	<u>369,739</u>	<u>53,581,024</u>
20. Unit Service Factor	<u>16.4</u>	<u>59.6</u>	<u>76.5</u>
21. Unit Avail Factor	<u>16.4</u>	<u>59.6</u>	<u>76.5</u>
22. Unit Cap Factor (MDC Net)	<u>12.1</u>	<u>54.6</u>	<u>72.6*</u>
23. Unit Cap Factor (DER Net)	<u>12.1</u>	<u>54.6</u>	<u>72.6*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>6.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>4,324.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* GINNA \*  
\*\*\*\*\*  
AVERAGE DAILY POWER LEVEL (MWe) PLOT  
GINNA



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* GINNA \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	02/05/88	S	581.7	C	1				THE UNIT WAS SHUTDOWN ON FEBRUARY 5TH FOR ANNUAL REFUELING AND MAINTENANCE.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
GINNA SHUTDOWN IN FEBRUARY FOR SCHEDULED REFUELING OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)

\*\*\*\*\*  
\* GINNA \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW YORK  
COUNTY.....WAYNE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...15 MI NE OF  
ROCHESTER, NY  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...NOVEMBER 8, 1969  
DATE ELEC ENER 1ST GENER...DECEMBER 2, 1969  
DATE COMMERCIAL OPERATE...JULY 1, 1970  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE ONTARIO  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....ROCHESTER GAS & ELECTRIC  
CORPORATE ADDRESS.....89 EAST AVENUE  
ROCHESTER, NEW YORK 14604  
CONTRACTOR  
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....C. MARSCHALL  
LICENSING PROJ MANAGER.....C. STAHL  
DOCKET NUMBER.....50-244  
LICENSE & DATE ISSUANCE...DPR-18, DECEMBER 10, 1984  
PUBLIC DOCUMENT ROOM....ROCHESTER PUBLIC LIBRARY  
BUSINESS AND SOCIAL SCIENCE DIVISION  
115 SOUTH AVENUE  
ROCHESTER, NEW YORK 14610

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

TS 6.8.1 STATES THAT WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED, AND MAINTAINED COVERING ACTIVITIES REFERENCED IN APPENDIX A OF RG 1.33, NOVEMBER 1972. APPENDIX A PARAGRAPH A, "ADMINISTRATIVE PROCEDURES" DISCUSSES BYPASS OF SAFETY FUNCTIONS AND JUMPER CONTROL. GINNA STATION ADMINISTRATIVE PROCEDURE A-1402, "BYPASS OF SAFETY FUNCTION OR JUMPER CONTROL," REQUIRES "TWO INDIVIDUALS KNOWLEDGEABLE IN THE TASK BEING PERFORMED" TO VERIFY INSTALLATION AND REMOVAL OF BLOCKING DEVICES OR JUMPERS UNLESS THE JUMPER IS CONTROLLED UNDER A PLANT OPERATION REVIEW COMMITTEE (PORC) APPROVED PROCEDURE. CONTRARY TO THE ABOVE, ON OCTOBER 13, 1987, BYPASS OF SAFETY FUNCTION AND JUMPER CONTROL REQUEST 86-56 DATED AUGUST 7, 1986 WAS STILL ACTIVE ALTHOUGH THE BLOCKING DEVICES COVERED BY THE REQUEST WERE REMOVED AND REINSTALLED ON OR ABOUT FEBRUARY 11, 1987 AND AGAIN ON OCTOBER 13, 1987 WITHOUT ADMINISTRATIVELY CONTROLLING THE BLOCKS AS REQUIRED BY PROCEDURE A-1402. IN THE SECOND OCCURRENCE THE BLOCKING DEVICES WERE MOVED AND VERIFIED BY PERSONS WHO PROVED TO BE UNFAMILIAR WITH THE "DESIGNED POSITION" OF THE BLOCKS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERIA XVI CORRECTIVE ACTION AND ANSI N42.2.11-1974, SECTION 9, CORRECTIVE ACTION, THE LICENSEE FAILED TO DETERMINE THE CAUSE OF CONTINUED DEFICIENCIES ON PIPING AND INSTRUMENTATION DRAWINGS (P&ID) AND FAILED TO PROMPTLY IDENTIFY AND CORRECT NONCONFORMANCES ON P&IDS. TS 6.12, "HIGH RADIATION AREA," REQUIRES IN PART, THAT EACH HIGH RADIATION AREA IN WHICH THE INTENSITY OF





1. Docket: 50-416 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: S. H. HOBBS (601) 969-2458

4. Licensed Thermal Power (Mwt): 3833

5. Nameplate Rating (Gross MWe): 1373

6. Design Electrical Rating (Net MWe): 1250

7. Maximum Dependable Capacity (Gross MWe): 1190

8. Maximum Dependable Capacity (Net MWe): 1142

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>23,377.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,222.6</u>	<u>16,953.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,124.7</u>	<u>16,247.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,631,546</u>	<u>3,982,467</u>	<u>53,178,139</u>
18. Gross Elec Ener (MWH)	<u>881,130</u>	<u>1,329,610</u>	<u>16,521,020</u>
19. Net Elec Ener (MWH)	<u>847,942</u>	<u>1,276,451</u>	<u>15,755,645</u>
20. Unit Service Factor	<u>100.0</u>	<u>78.1</u>	<u>69.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>78.1</u>	<u>69.5</u>
22. Unit Cap Factor (MDC Net)	<u>106.7</u>	<u>77.6</u>	<u>59.0</u>
23. Unit Cap Factor (DER Net)	<u>97.5</u>	<u>70.9</u>	<u>53.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>14.6</u>	<u>7.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>192.0</u>	<u>1,300.2</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

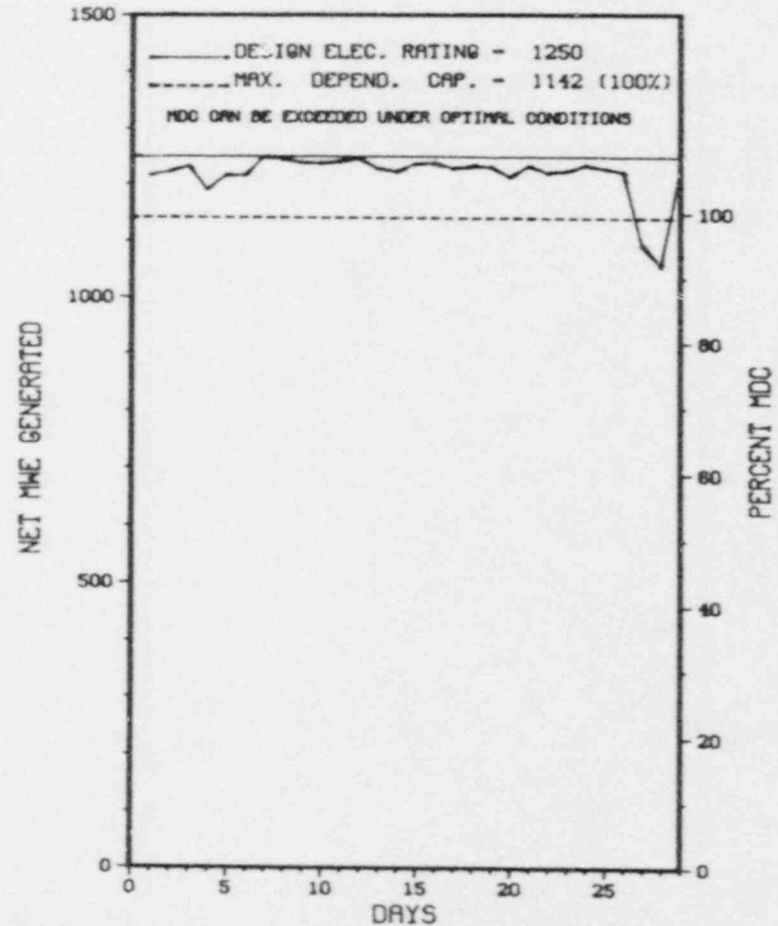
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* GRAND GULF 1 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

GRAND GULF 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* GRAND GULF 1 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
GRAND GULF 1 OPERATED ROUTINELY IN FEBRUARY WITH NO  
OUTAGES OR SIGNIFICANT REDUCTIONS.

<u>Type</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; Component</u>	
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling	H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction		4-Continued	Data Entry Sheet
	E-Operator Training		5-Reduced Load	Licensee Event Report
	& License Examination		9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* GRAND GULF 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MISSISSIPPI  
COUNTY.....CLAIBORNE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI S OF  
VICKSBURG, MISS  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...AUGUST 18, 1982  
DATE ELEC ENER 1ST GENER...OCTOBER 20, 1984  
DATE COMMERCIAL OPERATE...JULY 1, 1985  
CONDENSER COOLING METHOD...CCHNDCT  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....MISSISSIPPI POWER & LIGHT COMPANY  
CORPORATE ADDRESS.....P.O. BOX 1640  
JACKSON, MISSISSIPPI 39205  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....ALLIS-CHALMERS

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....R. BUTCHER  
LICENSING PROJ MANAGER.....L. KINTNER  
DOCKET NUMBER.....50-416  
LICENSE & DATE ISSUANCE...NPF-29, NOVEMBER 1, 1984  
PUBLIC DOCUMENT ROOM.....HINDS JUNIOR COLLEGE  
MC LENDON LIBRARY  
RAYMOND, MISSISSIPPI 39154

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 19 - JANUARY 15 (87-40): THIS ROUTINE INSPECTION WAS CONDUCTED BY THE RESIDENT INSPECTORS AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, ESF SYSTEM WALKDOWN, REPORTABLE OCCURRENCES, OPERATING REACTOR EVENTS, INSPECTOR FOLLOWUP AND UNRESOLVED ITEMS, COMPLIANCE WITH THE ATWS RULE, 10 CFR 50.62, REFUELING ACTIVITIES, STARTUP FROM REFUELING FASTENER TESTING PER TI 5200/26, DESIGN CHANGES AND MODIFICATION, AND VERIFICATION OF CONTAINMENT INTEGRITY. ONE VIOLATION WAS IDENTIFIED: FAILURE TO DETERMINE NORMAL INDICATED DELTA PRESSURE AND SET HPCS SYSTEM, LPCS SYSTEM, AND LCPI SUBSYSTEMS INSTRUMENTATION AS REQUIRED BY TECHNICAL SPECIFICATIONS.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:



1. Docket: 50-213 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. STANFORD (203) 267-2520 X452

4. Licensed Thermal Power (Mwt): 1825

5. Nameplate Rating (Gross MWe): 667 X 0.9 = 600

6. Design Electrical Rating (Net MWe): 582

7. Maximum Dependable Capacity (Gross MWe): 596

8. Maximum Dependable Capacity (Net MWe): 569

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

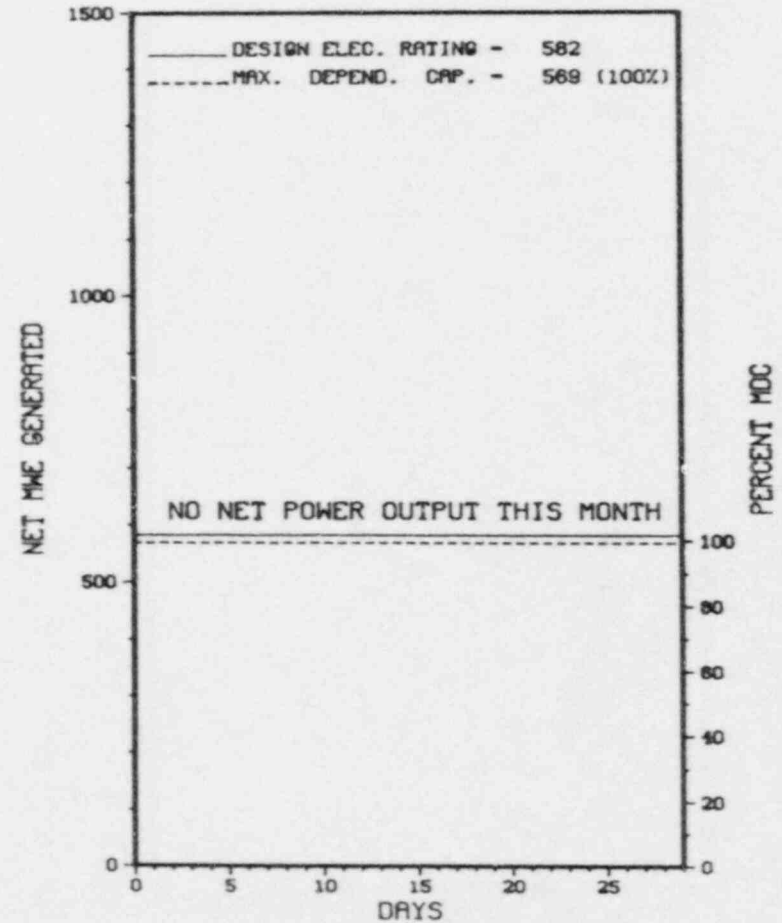
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>176,760.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>146,189.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,221.5</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>140,200.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>398.0</u>
17. Gross Therm Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>242,770,004</u>
18. Gross Elec Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>79,780,378</u>
19. Net Elec Ener (MWH)	<u>-3,093</u>	<u>-5,220</u>	<u>75,555,394</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>79.3</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>79.5</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>78.1*</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>73.5*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>6.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,432.8</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown, Estimated Startup Date: 03/09/88

\*\*\*\*\*  
\* HADDAM NECK \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
HADDAM NECK



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* HADDAM NECK \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-03	07/18/87	S	696.0	C	4		RC	FUELXX	CONTINUATION OF CORE 14-15 REFUELING.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
HADDAM NECK REMAINED SHUTDOWN IN FEBRUARY FOR SCHEDULED REFUELING OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* HADDAM NECK \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CONNECTICUT  
COUNTY.....MIDDLESEX  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...13 MI E OF  
MERIDEN, CONN  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JULY 24, 1967  
DATE ELEC ENER 1ST GENER...AUGUST 7, 1967  
DATE COMMERCIAL OPERATE...JANUARY 1, 1968  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...CONNECTICUT RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CONNECTICUT YANKEE ATOMIC POWER  
CORPORATE ADDRESS.....P.O. BOX 270  
HARTFORD, CONNECTICUT 06101  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....T. SCHEDLOSKY  
LICENSING PROJ MANAGER.....A. WANG  
DOCKET NUMBER.....50-213  
LICENSE & DATE ISSUANCE...DPR-61, DECEMBER 27, 1974  
PUBLIC DOCUMENT ROOM.....RUSSELL LIBRARY  
123 BROAD STREET  
MIDDLETOWN, CONNECTICUT 06457

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.





1. Docket: 50-400 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: MARK W. HALE (919) 362-2944

4. Licensed Thermal Power (Mwt): 2775

5. Nameplate Rating (Gross MWe): 950

6. Design Electrical Rating (Net MWe): 900

7. Maximum Dependable Capacity (Gross MWe): 920

8. Maximum Dependable Capacity (Net MWe): 860

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>7,297.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>5,889.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>5,763.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,921,643</u>	<u>3,976,826</u>	<u>15,126,967</u>
18. Gross Elec Ener (MWH)	<u>651,539</u>	<u>1,350,651</u>	<u>5,015,869</u>
19. Net Elec Ener (MWH)	<u>611,266</u>	<u>1,266,889</u>	<u>4,645,718</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>79.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>79.0</u>
22. Unit Cap Factor (MDC Net)	<u>102.1</u>	<u>102.3</u>	<u>74.0</u>
23. Unit Cap Factor (DER Net)	<u>97.6</u>	<u>97.8</u>	<u>70.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>8.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>503.3</u>

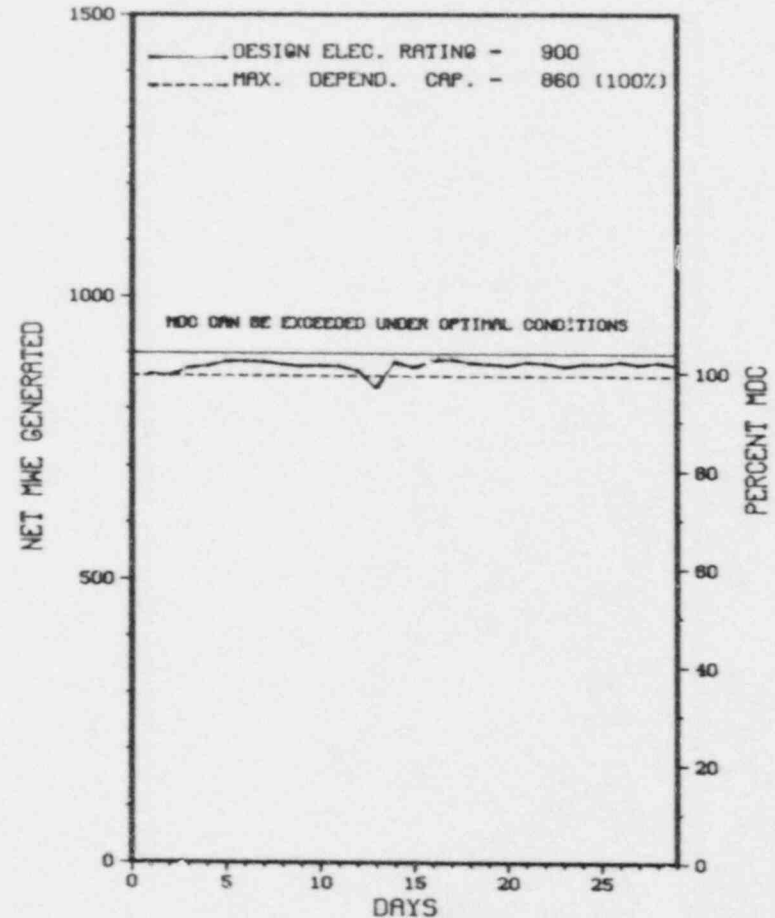
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING OUTAGE, JULY 30, 1988, 7 WEEKS DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* HARRIS 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HARRIS 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* HARRIS 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-005	02/12/88	S	0.0	B	5		HA	VALVEX	LOAD REDUCED TO 66% TO PERFORM TURBINE VALVE TESTING. THE REQUIRED TESTS WERE COMPLETED AND THE UNIT WAS RETURNED TO FULL POWER.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
HARRIS 1 INCURRED 1 POWER REDUCTION IN FEBRUARY FOR VALVE TESTING.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* HARRIS 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NORTH CAROLINA  
COUNTY.....WAKE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...20 MI SW OF  
RALEIGH, NC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JANUARY 3, 1987  
DATE ELEC ENER 1ST GENER...JANUARY 19, 1987  
DATE COMMERCIAL OPERATE...MAY 2, 1987  
CONDENSER COOLING METHOD...NDCT  
CONDENSER COOLING WATER...MAKEUP RESERVOIR  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CAROLINA POWER & LIGHT  
CORPORATE ADDRESS.....336 FAYETTEVILLE STREET  
RALEIGH, NORTH CAROLINA 27602  
CONTRACTOR  
ARCHITECT/ENGINEER.....EBASCO  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DANIEL INTERNATIONAL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....G. MAXWELL  
LICENSING PROJ MANAGER.....B. BUCKLEY  
DOCKET NUMBER.....50-400  
LICENSE & DATE ISSUANCE...NPF-63, JANUARY 12, 1987  
PUBLIC DOCUMENT ROOM.....RICHARD B. HARRISON LIBRARY  
1313 NEW BERN AVE.  
RALEIGH, N. C., 27610

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 16 - DECEMBER 11 (87-41): THIS SPECIAL ANNOUNCED INSPECTION WAS IN THE AREAS OF FOLLOWUP ON PREVIOUS INSPECTION FINDINGS AND ON CONCERNS PERTAINING TO DESIGN ACTIVITIES. ONE VIOLATION WAS IDENTIFIED - UNCONTROLLED CHANGE TO DESIGN INPUT.

INSPECTION NOVEMBER 27 - DECEMBER 27 (87-43): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED INSPECTION IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION AND MONTHLY MAINTENANCE OBSERVATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 11-15 (88-01): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOW-UP ON PREVIOUSLY IDENTIFIED INSPECTION ITEMS. TWO VIOLATIONS WERE IDENTIFIED - INADEQUATE PROCEDURE FPP-013 FOR IMPLEMENTING MITIGATING ACTIONS FOR INOPERABLE FIRE SUPPRESSION SYSTEMS AND FAILURE TO PERFORM QUARTERLY SURVEILLANCE OF THE MULTICYCLE AND PREACTION SPRINKLER SYSTEMS ON THE 190, 268, AND 305 ELEVATIONS OF THE REACTOR AUXILIARY BUILDING.

INSPECTION DECEMBER 27 - JANUARY 22 (88-02): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED INSPECTION IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION, MONTHLY SURVEILLANCE OBSERVATION AND MONTHLY MAINTENANCE OBSERVATION. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.



1. Docket: 50-321 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J.H. RICHARDSON (912) 367-7781 X2878

4. Licensed Thermal Power (MWT): 2436

5. Nameplate Rating (Gross MWe): 850

6. Design Electrical Rating (Net MWe): 776

7. Maximum Dependable Capacity (Gross MWe): 789

8. Maximum Dependable Capacity (Net MWe): 756

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):       

11. Reasons for Restrictions, If Any:         
NONE

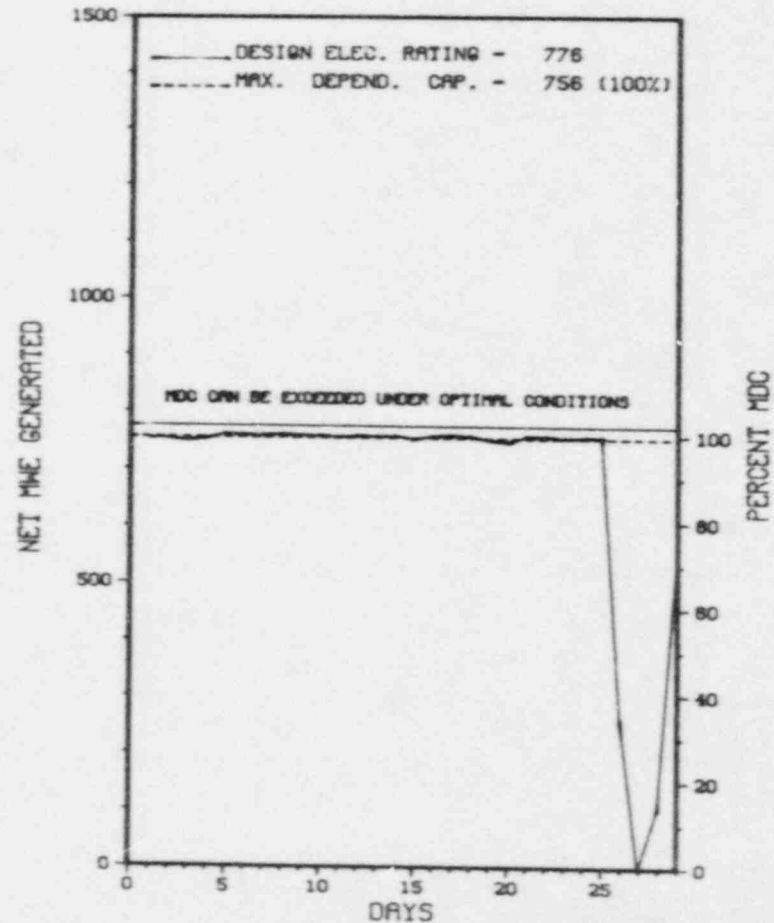
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,660.0</u>	<u>106,632.0</u>
13. Hours Reactor Critical	<u>655.9</u>	<u>1,399.9</u>	<u>76,164.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>642.0</u>	<u>1,389.0</u>	<u>72,165.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,560,886</u>	<u>3,356,662</u>	<u>156,112,042</u>
18. Gross Elec Ener (MWH)	<u>498,840</u>	<u>1,085,240</u>	<u>50,464,620</u>
19. Net Elec Ener (MWH)	<u>475,727</u>	<u>1,036,389</u>	<u>47,967,608</u>
20. Unit Service Factor	<u>92.7</u>	<u>96.5</u>	<u>67.7</u>
21. Unit Avail Factor	<u>92.7</u>	<u>96.5</u>	<u>67.7</u>
22. Unit Cap Factor (MDC Net)	<u>90.4</u>	<u>95.2</u>	<u>59.5</u>
23. Unit Cap Factor (DER Net)	<u>88.1</u>	<u>92.7</u>	<u>58.0</u>
24. Unit Forced Outage Rate	<u>7.3</u>	<u>3.5</u>	<u>13.3</u>
25. Forced Outage Hours	<u>51.0</u>	<u>51.0</u>	<u>10,914.1</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* HATCH 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HATCH 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* HATCH 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-002	02/26/88	F	51.0	H	3	1-88-03	HA	GENERA	REACTOR SCRAM WAS CAUSED BY A TURBINE TRIP DUE TO A TRIP SIGNAL FROM THE MAIN GENERATOR FIELD GROUND DETECTING RELAY.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 HATCH 1 INCURRED 1 FORCED OUTAGE IN FEBRUARY AS DISCUSSED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* HATCH 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....GEORGIA  
COUNTY.....APPLING  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...11 MI N OF  
BAXLEY, GA  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...SEPTEMBER 12, 1974  
DATE ELEC ENER 1ST GENER...NOVEMBER 11, 1974  
DATE COMMERCIAL OPERATE...DECEMBER 31, 1975  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...ALTAMAHA RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....GEORGIA POWER  
CORPORATE ADDRESS.....333 PIEDMONT AVENUE  
ATLANTA, GEORGIA 30308  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....GEORGIA POWER CO.  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....P. HOLMES RAY  
LICENSING PROJ MANAGER.....L. CROCKER  
DOCKET NUMBER.....50-321  
LICENSE & DATE ISSUANCE....DPR-57, OCTOBER 13, 1974  
PUBLIC DOCUMENT ROOM.....APPLING COUNTY PUBLIC LIBRARY  
301 CITY HALL DRIVE  
BAXLEY, GEORGIA 31513

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

\* INSPECTION DECEMBER 19 - JANUARY 22 (88-01): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, OPERATING REACTOR EVENTS AND COLD WEATHER PREPARATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 26-29 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF RADIATION PROTECTION ASPECTS OF THE UNIT 2 OUTAGE INCLUDING: PLANNING AND PREPARATION; TRAINING AND QUALIFICATION; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS, AND MONITORING; THE PROGRAM TO MAINTAIN EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA); FOLLOWUP ON PREVIOUS ENFORCEMENT ITEMS AND FOLLOWUP ON OPEN ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 1-5 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION INCLUDING REVIEW OF CURRENT OUTAGE PROGRAM, REVIEW OF NONDESTRUCTIVE EXAMINATION (NDE) PROCEDURES, OBSERVATION OF NONDESTRUCTIVE EXAMINATIONS, REVIEW OF NDE PERSONNEL CERTIFICATIONS, REVIEW OF MATERIAL AND EQUIPMENT CERTIFICATION RECORDS, AND REVIEW OF COMPLETED NDE DATA. ALSO, PREVIOUSLY OPEN ITEMS WERE ADDRESSED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.







Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 \* HATCH 2 \*  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-002	01/13/88	S	696.0	C	4		RC	FUELXX	REFUELING OUTAGE CONTINUES.

XXXXXXXXXXXX HATCH 2 REMAINED SHUTDOWN IN FEBRUARY FOR SCHEDULED  
 \* SUMMARY \* REFUELING OUTAGE.  
 XXXXXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual Exhibit F & H
S-Sched	B-Maint or Test	C-Oper Error	2-Manual Scram Instructions for
	C-Refueling	H-Other	3-Auto Scram Preparation of
	D-Regulatory Restriction		4-Continued Data Entry Sheet
	E-Operator Training		5-Reduced Load Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* HATCH 2 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....GEORGIA  
COUNTY.....APPLING  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...11 MI N OF  
BAXLEY, GA  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JULY 4, 1978  
DATE ELEC ENER 1ST GENER...SEPTEMBER 22, 1978  
DATE COMMERCIAL OPERATE...SEPTEMBER 5, 1979  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...ALTAMAHA RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....GEORGIA POWER  
CORPORATE ADDRESS.....333 PIEDMONT AVENUE  
ATLANTA, GEORGIA 30308  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....GEORGIA POWER CO.  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....P. HOLMES RAY  
LICENSING PROJ MANAGER.....L. CROCKER  
DOCKET NUMBER.....50-366  
LICENSE & DATE ISSUANCE...NPF-5, JUNE 13, 1978  
PUBLIC DOCUMENT ROOM.....APPLING COUNTY PUBLIC LIBRARY  
301 CITY HALL DRIVE  
BAXLEY, GEORGIA 31513

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 19 - JANUARY 22 (88-01): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, OPERATING REACTOR EVENTS AND COLD WEATHER PREPARATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 26-29 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF RADIATION PROTECTION ASPECTS OF THE UNIT 2 OUTAGE INCLUDING: PLANNING AND PREPARATION; TRAINING AND QUALIFICATION; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS, AND MONITORING; THE PROGRAM TO MAINTAIN EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA); FOLLOWUP ON PREVIOUS ENFORCEMENT ITEMS AND FOLLOWUP ON OPEN ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 1-5 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION INCLUDING REVIEW OF CURRENT OUTAGE PROGRAM, REVIEW OF NONDESTRUCTIVE EXAMINATION (NDE) PROCEDURES, OBSERVATION OF NONDESTRUCTIVE EXAMINATIONS, REVIEW OF NDE PERSONNEL CERTIFICATIONS, REVIEW OF MATERIAL AND EQUIPMENT CERTIFICATION RECORDS, AND REVIEW OF COMPLETED NDE DATA. ALSO, PREVIOUSLY OPEN ITEMS WERE ADDRESSED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.



1. Docket: 50-354                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + Un-line Hrs: 696.0

3. Utility Contact: BRYAN W. GORMAN (609) 339-5400

4. Licensed Thermal Power (MWT):                      3293

5. Nameplate Rating (Gross MWe):                      1118

6. Design Electrical Rating (Net MWe):                      1067

7. Maximum Dependable Capacity (Gross MWe):                      1118

8. Maximum Dependable Capacity (Net MWe):                      1067

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>10,488.0</u>
13. Hours Reactor Critical	<u>301.0</u>	<u>1,045.0</u>	<u>8,903.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>293.9</u>	<u>1,037.9</u>	<u>8,783.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>937,997</u>	<u>3,378,284</u>	<u>27,186,851</u>
18. Gross Elec Ener (MWH)	<u>314,464</u>	<u>1,133,984</u>	<u>9,045,748</u>
19. Net Elec Ener (MWH)	<u>296,858</u>	<u>1,085,075</u>	<u>8,647,989</u>
20. Unit Service Factor	<u>42.2</u>	<u>72.1</u>	<u>83.7</u>
21. Unit Avail Factor	<u>42.2</u>	<u>72.1</u>	<u>83.7</u>
22. Unit Cap Factor (MDC Net)	<u>40.0</u>	<u>70.6</u>	<u>54.3*</u>
23. Unit Cap Factor (DER Net)	<u>40.0</u>	<u>70.6</u>	<u>77.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>8.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>760.6</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

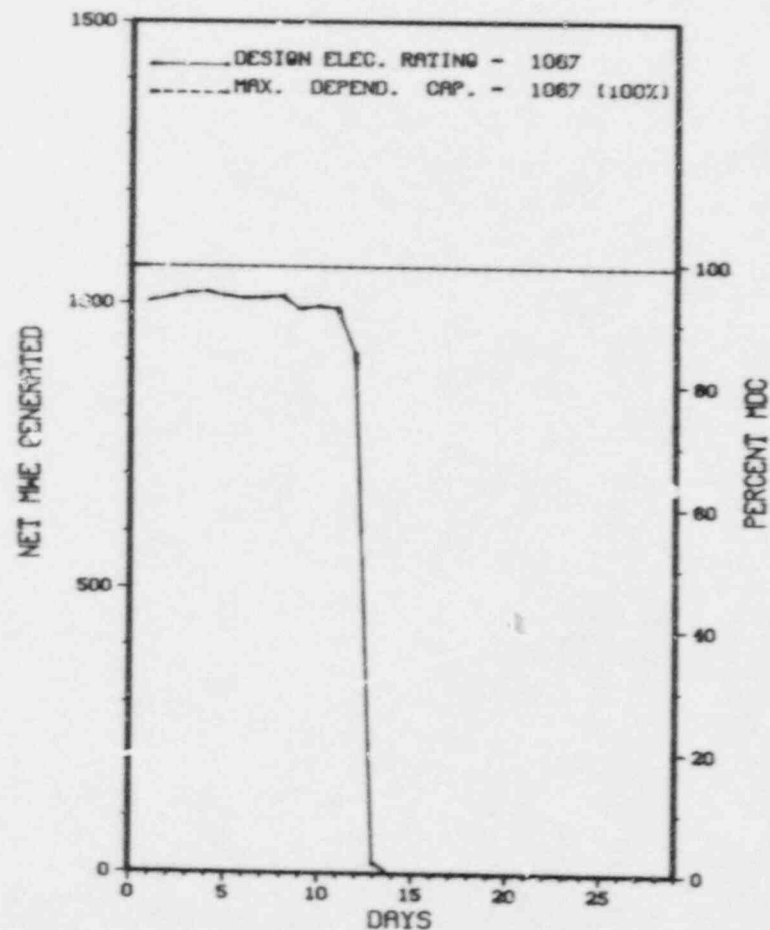
NONE

27. If Currently Shutdown Estimated Startup Date: 04/08/88

\*\*\*\*\*  
 \*                      HOPE CREEK 1                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MW) PLOT

HOPE CREEK 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* HOPE CREEK 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/13/88	S	402.1	C	2				REFUEL OUTAGE.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 HOPE CREEK SHUTDOWN IN FEBRUARY FOR SCHEDULED REFUELING OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Rafueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
X HOPE CREEK 1 X  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW JERSEY  
COUNTY.....SALEM  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...18 MI SE OF  
WILMINGTON, DEL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JUNE 28, 1986  
DATE ELEC ENER 1ST GENER...AUGUST 1, 1986  
DATE COMMERCIAL OPERATE...DECEMBER 20, 1986  
CONDENSER COOLING METHOD...NDCT  
CONDENSER COOLING WATER...DELAWARE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS  
CORPORATE ADDRESS.....80 PARK PLACE  
NEWARK, NEW JERSEY 07101  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTGR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....  
LICENSING PROJ MANAGER....G. RIVENBARK  
DOCKET NUMBER.....50-354  
LICENSE & DATE ISSUANCE...NPF-57. JULY 25, 1986  
PUBLIC DOCUMENT ROOM.....PENNSVILLE PUBLIC LIBRARY  
190 SOUTH BROADWAY  
PENNSVILLE, N. J. 08070

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INFO. NOT SUPPLIED BY REGION

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INFO. NOT SUPPLIED BY REGION

FACILITY ITEMS (PLANS AND PROCEDURES):

INFO. NOT SUPPLIED BY REGION

MANAGERIAL ITEMS:

INFO. NOT SUPPLIED BY REGION

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X                    HOPE CREEK 1                    X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

PLANT STATUS:

INFO. NOT SUPPLIED BY REGION

LAST IE SITE INSPECTION DATE: INFO. NOT SUPPLIED BY REGION

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
--------	------------------	-------------------	---------

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INFO. NOT SUPPLIED BY REGION

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1. Docket: 50-247 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: K. KRIEGER (914) 526-5155

4. Licensed Thermal Power (Mwt): 2758

5. Nameplate Rating (Gross MWe): 1126 X 0.9 = 1013

6. Design Electrical Rating (Net MWe): 873

7. Maximum Dependable Capacity (Gross MWe): 900

8. Maximum Dependable Capacity (Net MWe): 864

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any:           
NONE

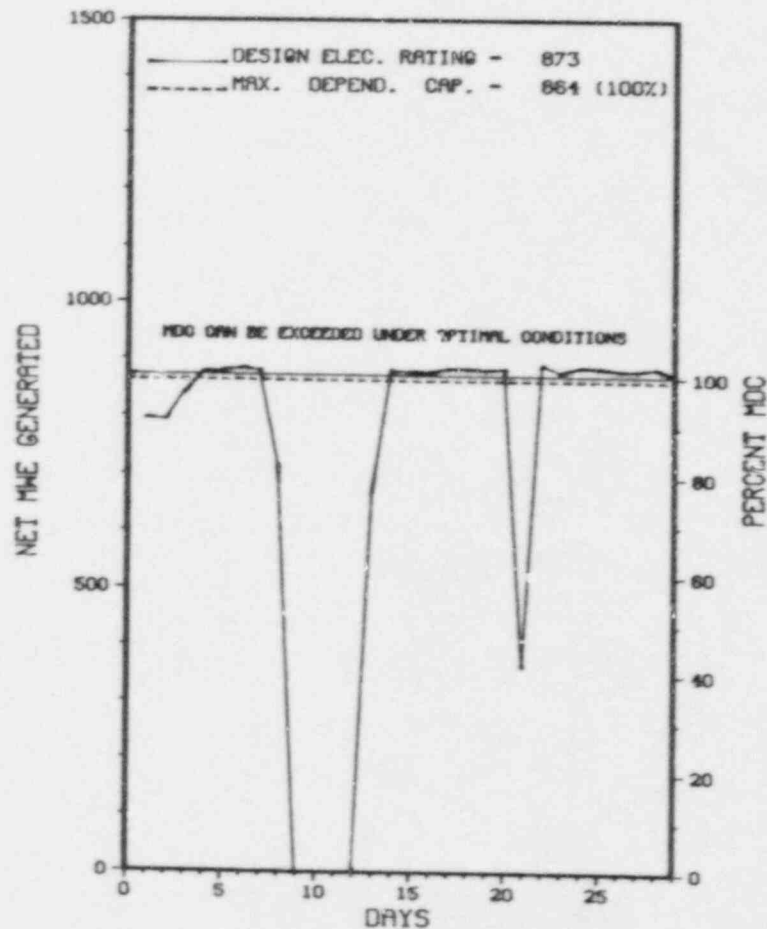
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>119,809.0</u>
13. Hours Reactor Critical	<u>639.9</u>	<u>929.3</u>	<u>81,548.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,867.6</u>
15. Hrs Generator On-Line	<u>592.1</u>	<u>775.9</u>	<u>79,192.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,579,110</u>	<u>1,902,921</u>	<u>206,745,791</u>
18. Gross Elec Ener (MWH)	<u>521,034</u>	<u>616,164</u>	<u>64,229,720</u>
19. Net Elec Ener (MWH)	<u>500,491</u>	<u>577,825</u>	<u>60,713,613</u>
20. Unit Service Factor	<u>85.1</u>	<u>55.3</u>	<u>66.1</u>
21. Unit Avail Factor	<u>85.1</u>	<u>55.3</u>	<u>66.1</u>
22. Unit Cap Factor (MDC Net)	<u>83.2</u>	<u>46.4</u>	<u>59.6*</u>
23. Unit Cap Factor (NER Net)	<u>82.4</u>	<u>46.0</u>	<u>58.0</u>
24. Unit Forced Outage Rate	<u>1.3</u>	<u>3.1</u>	<u>8.7</u>
25. Forced Outage Hours	<u>8.1</u>	<u>25.3</u>	<u>7,283.3</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* INDIAN POINT 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
INDIAN POINT 2



\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* INDIAN POINT 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3	02/09/88	S	95.8	B	1		HA	GENERA	UNIT SHUTDOWN FOR R.P.I. RECAL AND GENERATOR TORSIONAL TEST.
4	02/21/88	F	8.1	A	9		HA	TURBIN	TURBINE TAKEN OFF LINE TO REPAIR CRACKED COUPLING SHROUD. REACTOR REMAINED CRITICAL.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 INDIAN POINT 2 INCURRED 2 OUTAGES IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* INDIAN POINT 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW YORK  
COUNTY.....WESTCHESTER  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI N OF  
NEW YORK CITY, NY  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 22, 1973  
DATE ELEC ENER 1ST GENER...JUNE 26, 1973  
DATE COMMERCIAL OPERATE...AUGUST 1, 1974  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATLR...HUDSON RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CONSOLIDATED EDISON  
CORPORATE ADDRESS.....4 IRVING PLACE  
NEW YORK, NEW YORK 10003  
CONTRACTOR  
ARCHITECT/ENGINEER.....UNITED ENG. & CONSTRUCTORS  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....WESTINGHOUSE DEVELOPMENT CORP  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....L. ROSSBACH  
LICENSING PROJ MANAGER.....M. SLOSSON  
DOCKET NUMBER.....59-247  
LICENSE & DATE ISSUANCE....DPR-26, SEPTEMBER 28, 1973  
PUBLIC DOCUMENT ROOM.....WHITE PLAINS PUBLIC LIBRARY  
100 MARTINE AVENUE  
WHITE PLAINS, NEW YORK 10601

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 20.201(B) REQUIRES THAT EACH LICENSEE MAKE SUCH SURVEYS AS MAY BE NECESSARY TO COMPLY WITH ALL SECTIONS OF PART 20. AS DEFINED IN 10 CFR 20.201(A), "SURVEY" MEANS AN EVALUATION OF THE RADIATION HAZARDS INCIDENT TO THE PRODUCTION, USE, RELEASE, DISPOSAL, OR PRESENCE OF RADIOACTIVE MATERIALS OR OTHER SOURCES OF RADIATION UNDER A SPECIFIC SET OF CONDITIONS. CONTRARY TO THE ABOVE, NO SURVEYS WERE MADE TO ESTABLISH THAT LICENSED MATERIAL WAS NOT INADVERTENTLY DISPOSED OF IN A MANNER OTHER THAN AUTHORIZED BY 10 CFR 301, WHICH DESCRIBES AUTHORIZED MEANS OF DISPOSING OF LICENSED MATERIAL CONTAINED IN WASTE. SPECIFICALLY, ON NOVEMBER 27, 1987, NO SURVEYS WERE MADE ON A DUMPSTER WHICH CONTAINED THREE TIMBERS, CONTAMINATED WITH APPROXIMATELY 65 MILLICURIES OF COBALT-58 PRIOR TO THEIR RELEASE FROM THE SITE.  
(8703 4)

10 CFR 50, APPENDIX R REQUIRES THAT THE CAPABILITY BE PROVIDED TO ACHIEVE AND MAINTAIN COLD SHUTDOWN IN THE EVENT OF A FIRE. FIRES IN THE RHR CUBICLE ARE COVERED BY THIS REQUIREMENT. TECHNICAL SPECIFICATION 6.8.1 REQUIRES THAT PROCEDURES BE ESTABLISHED AND MAINTAINED COVERING THE RECOMMENDATIONS OF APPENDIX A OF RG 1.33. SECTION F OF APPENDIX A OF RG 1.33 INCLUDES PROCEDURES FOR COMBATING EMERGENCIES AND OTHER SIGNIFICANT EVENTS. CONTRARY TO THE ABOVE, ON AUGUST 29, 1987, THE USE OF A JUMPER CABLE AS A



1. Docket: 50-286                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: L. KELLY (914) 739-8200

4. Licensed Thermal Power (MWT):                      3025

5. Nameplate Rating (Gross MWe):                      1126 X 0.9 = 1013

6. Design Electrical Rating (Net MWe):                      965

7. Maximum Dependable Capacity (Gross MWe):                      1000

8. Maximum Dependable Capacity (Net MWe):                      965

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>100,825.0</u>
13. Hours Reactor Critical	<u>679.8</u>	<u>1,423.8</u>	<u>60,769.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>674.3</u>	<u>1,418.3</u>	<u>58,884.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,010,091</u>	<u>4,260,333</u>	<u>156,272,476</u>
18. Gross Elec Ener (MWH)	<u>662,950</u>	<u>1,408,000</u>	<u>49,784,056</u>
19. Net Elec Ener (MWH)	<u>640,311</u>	<u>1,360,329</u>	<u>47,750,887</u>
20. Unit Service Factor	<u>56.9</u>	<u>98.5</u>	<u>58.4</u>
21. Unit Avail Factor	<u>96.9</u>	<u>98.5</u>	<u>58.4</u>
22. Unit Cap Factor (MDC Net)	<u>95.3</u>	<u>97.9</u>	<u>49.1</u>
23. Unit Cap Factor (DER Net)	<u>95.3</u>	<u>97.9</u>	<u>49.1</u>
24. Unit Forced Outage Rate	<u>3.1</u>	<u>1.5</u>	<u>18.2</u>
25. Forced Outage Hours	<u>21.7</u>	<u>21.7</u>	<u>13,111.1</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

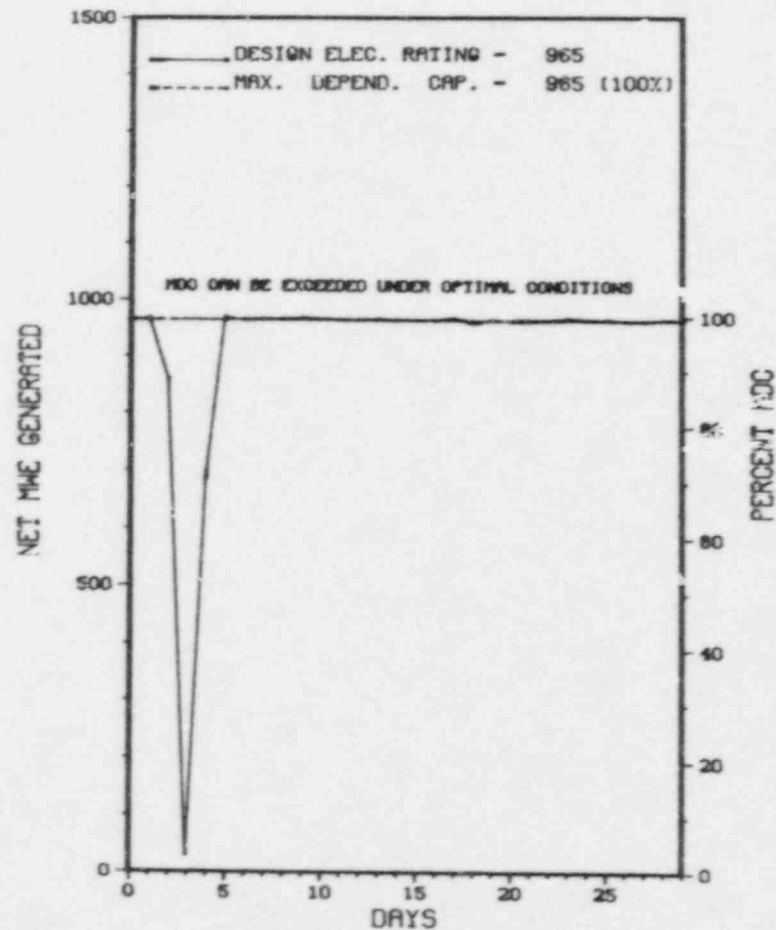
MAINTENANCE OUTAGE - MAY, 1988 - DURATION 2 WEEKS.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* INDIAN POINT 3 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

INDIAN POINT 3



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS REDUCTIONS

\*\*\*\*\*  
\* INDIAN POINT 3 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/02/88	F	21.7	A	1	88-001-00	CH	PUMPXX	LOSS OF NO. 31 AND NO. 32 MAIN BOILER FEED PUMPS DUE TO CONTROL OIL PRESSURE TRANSIENT. UNIT MANUALLY TRIPPED IN ANTICIPATION OF DECREASE IN STEAM GENERATOR LEVEL.

\*\*\*\*\* INDIAN POINT 3 INCURRED 1 FORCED OUTAGE IN FEBRUARY FOR REASONS  
\* SUMMARY \*  
\*\*\*\*\*

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
X INDIAN POINT 3 X  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW YORK  
COUNTY.....WESTCHESTER  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI N OF  
NEW YORK CITY, NY  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...APRIL 6, 1976  
DATE ELEC ENER 1ST GENER...APRIL 27, 1976  
DATE COMMERCIAL OPERATE...AUGUST 30, 1976  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...HUDSON RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NEW YORK POWER AUTHORITY  
CORPORATE ADDRESS.....10 COLUMBUS CIRCLE  
NEW YORK, NEW YORK 10019  
CONTRACTOR  
ARCHITECT/ENGINEER.....UNITED ENG. & CONSTRUCTORS  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....WESTINGHOUSE DEVELOPMENT CORP  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....P. KOLTAY  
LICENSING PROJ MANAGER.....J. NEIGHBORS  
DOCKET NUMBER.....50-286  
LICENSE & DATE ISSUANCE...DPR-64, APRIL 5, 1976  
PUBLIC DOCUMENT ROOM.....WHITE PLAINS PUBLIC LIBRARY  
100 MARTINE AVENUE  
WHITE PLAINS, NEW YORK 10601

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 50.49 PARA (F) REQUIRES THAT QUALIFICATION OF EACH ITEM OF ELECTRICAL EQUIPMENT BE BASED ON TESTING OR EXPERIENCE WITH IDENTICAL EQUIPMENT OR WITH SIMILAR EQUIPMENT WITH SUPPORTING ANALYSIS TO SHOW THAT EQUIPMENT IS ACCEPTABLE; 10 CFR 50.49 PARA (G) REQUIRES THAT EACH ITEM OF ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY BE QUALIFIED AND THAT QUALIFICATION MUST BE COMPLETED AT A TIME NO LATER THAN NOVEMBER 30, 1985. CONTRARY TO THE ABOVE ON SEPTEMBER 25, 1987 THE FOLLOWING ELECTRICAL EQUIPMENT WAS IDENTIFIED FOR WHICH THE LICENSEE HAD NOT ESTABLISHED QUALIFICATION PRIOR TO THIS INSPECTION. THE INSTALLED ITEMS INCLUDE: WEED RESISTANCE TEMPERATURE DETECTORS (PARA 10.7); LIMITORQ MOTOR OPERATOR VALVE WITH DINGS BRAKE (PARA 10) IN LER 86-008 (PARA 13). (8702 4)

10 CFR 50.49 PARA (J) REQUIRES THAT A RECORD OF THE QUALIFICATION INCLUDING DOCUMENTATION IN PARA D OF THIS SECTION (PERFORMANCE/ACCEPTANCE REQUIREMENTS) MUST BE MAINTAINED IN AN ACCURATE FORM FOR THE ENTIRE PERIOD DURING WHICH THE COVERED ITEM IS INSTALLED IN THE PLANT. CONTRARY TO THE ABOVE ON SEPTEMBER 25, 1987 LICENSEE EQ FILES WERE IDENTIFIED FOR WHICH SUPPORTING QUALIFICATION DOCUMENTS WERE EITHER MISSING, INADEQUATE OR INCOMPLETE.

ENFORCEMENT SUMMARY

(8702 5)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

=====



1. Docket: 50-365 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: G. RUITER (414) 388-2560 X225

4. Licensed Thermal Power (Mwt): 1650

5. Nameplate Rating (Gross MWe): 622 X 0.9 = 560

6. Design Electrical Rating (Net MWe): 535

7. Maximum Dependable Capacity (Gross MWe): 529

8. Maximum Dependable Capacity (Net MWe): 503

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

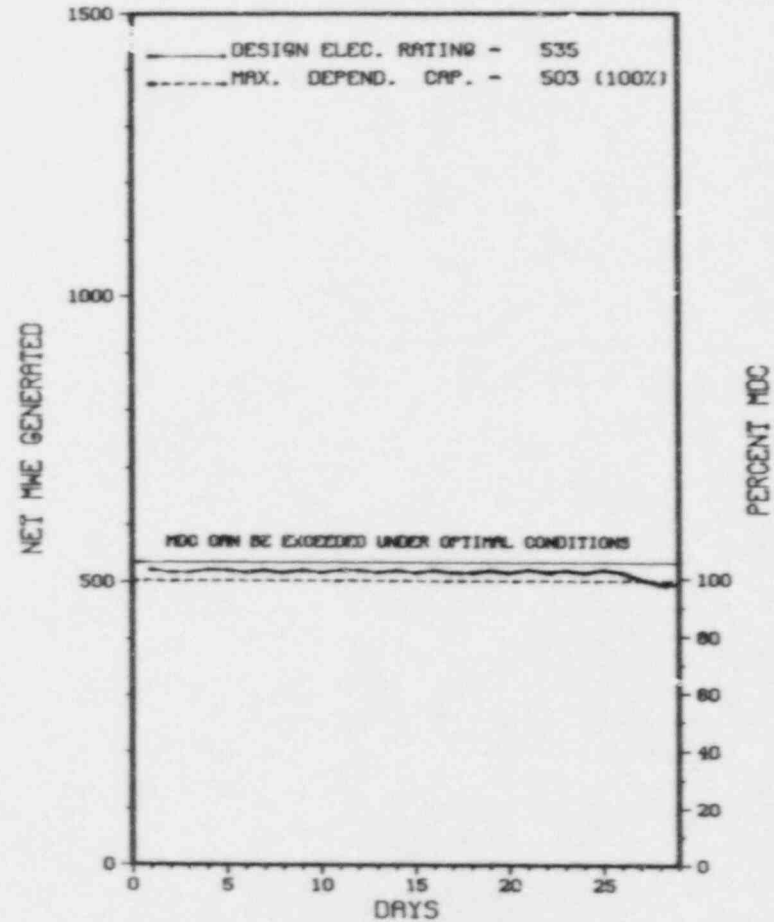
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>120,169.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>102,992.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,330.5</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>101,321.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>10.0</u>
17. Gross Therm Ener (MWH)	<u>1,134,763</u>	<u>2,352,291</u>	<u>159,772,165</u>
18. Gross Elec Ener (MWH)	<u>377,000</u>	<u>781,300</u>	<u>52,768,400</u>
19. Net Elec Ener (MWH)	<u>360,053</u>	<u>746,206</u>	<u>50,250,716</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>84.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>84.3</u>
22. Unit Cap Factor (MDC Net)	<u>102.8</u>	<u>103.0</u>	<u>81.1</u>
23. Unit Cap Factor (DER Net)	<u>96.7</u>	<u>96.9</u>	<u>78.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>2.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,838.8</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING - MARCH 4, 1988 - DURATION 6 WEEKS.

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X KEWAUNEE X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
KEWAUNEE



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* Kewaunee \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

XXXXXXXXXX Kewaunee operated routinely in February with no outages or  
\* SUMMARY \* significant power reductions.  
XXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	F-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* KEWAUNEE \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....WISCONSIN  
COUNTY.....KEWAUNEE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...27 MI E OF  
GREEN BAY, WI.  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MARCH 7, 1974  
DATE ELEC ENER 1ST GENER...APRIL 8, 1974  
DATE COMMERCIAL OPERATE...JUNE 16, 1974  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....WISCONSIN PUBLIC SERVICE  
CORPORATE ADDRESS.....P.O. BOX 19002  
GREEN BAY, WISCONSIN 54307  
CONTRACTOR  
ARCHITECT/ENGINEER.....PIONEER SERVICES & ENGINEERING  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....PIONEER SERVICES & ENGINEERING  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....R. NELSON  
LICENSING PROJ MANAGER.....J. GIITER  
DOCKET NUMBER.....50-305  
LICENSE & DATE ISSUANCE...DPR-43, DECEMBER 21, 1973  
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF WISCONSIN  
LIBRARY LEARNING CENTER  
2420 NICOLET DRIVE  
GREEN BAY, WISCONSIN 54301

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION FROM NOVEMBER 16 THROUGH DECEMBER 31 (87019): ROUTINE UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF NRC INFORMATION NOTICE FOLLOWUP; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; LICENSEE EVENTS AND PREPARATION FOR REFUELING. ONE UNRESOLVED ITEM WAS IDENTIFIED.

INSPECTION ON JANUARY 4-5 (88002): SPECIAL, ANNOUNCED INSPECTION OF THE KEWAUNEE NUCLEAR POWER PLANT EMERGENCY RESPONSE FACILITIES IN REGARDS TO THE NRC SITE TEAM, INCLUDING: AVAILABLE FACILITY SPACE; FACILITY LAYOUT; COMMUNICATIONS; AND NRC COMPUTER COMPATIBILITY. FOR THE AREAS INSPECTED NO VIOLATIONS, DEFICIENCIES, OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS



1. Docket: 50-373 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: G. J. KIRCHNER (815) 357-6761 X 705  
 4. licensed Thermal Power (MWT): 3323  
 5. Nameplate Rating (Gross MWe): 1078  
 6. Design Electrical Rating (Net MWe): 1078  
 7. Maximum Dependable Capacity (Gross MWe): 1078  
 8. Maximum Dependable Capacity (Net MWe): 1036  
 9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): 1050  
 11. Reasons for Restrictions, If Any: \_\_\_\_\_

ADMINISTRATIVE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>36,504.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>21,483.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,640.9</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>27,868.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1.0</u>
17. Gross Therm Ener (MWH)	<u>2,169,624</u>	<u>4,403,112</u>	<u>62,373,428</u>
18. Gross Elec Ener (MWH)	<u>735,681</u>	<u>1,491,467</u>	<u>18,458,726</u>
19. Net Elec Ener (MWH)	<u>711,090</u>	<u>1,441,340</u>	<u>17,551,128</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>57.2</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>57.2</u>
22. Unit Cap Factor (MDC Net)	<u>98.6</u>	<u>96.6</u>	<u>46.4</u>
23. Unit Cap Factor (DER Net)	<u>94.8</u>	<u>92.9</u>	<u>44.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>13.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>3,264.6</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

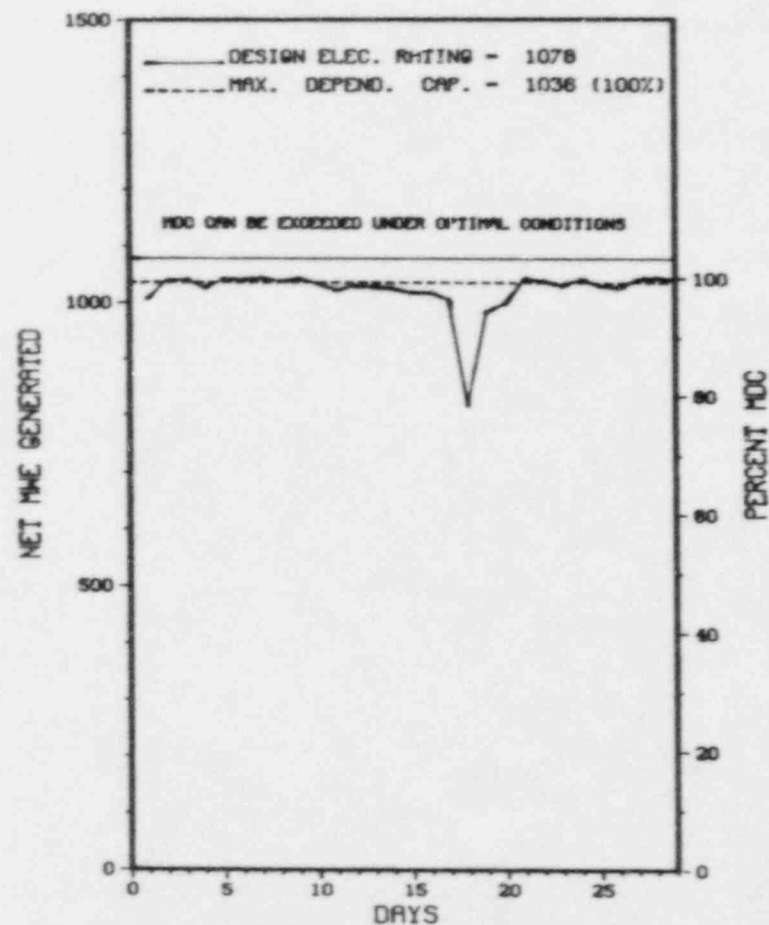
REFUEL - MARCH 13, 1988 - 15 WEEK DURATION

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* LASALLE 1 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

LASALLE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* LASALLE 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
5	02/17/88	S	0.0	B	S			CONTROL ROD ADJUSTMENT.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
LASALLE 1 INCURRED 1 POWER REDUCTION IN FEBRUARY FOR CONTROL ROD ADJUSTMENT.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* LASALLE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....LA SALLE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...11 MI SE OF  
OTTAWA, ILL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JUNE 21, 1982  
DATE ELEC ENER 1ST GENER...SEPTEMBER 4, 1982  
DATE COMMERCIAL OPERATE...JANUARY 1, 1984  
CONDENSER COOLING METHOD...POND  
CONDENSER COOLING WATER...RESERVOIR  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....COMMONWEALTH EDISON  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....M. JORDAN  
LICENSING PROJ MANAGER.....P. SHEMANSKI  
DOCKET NUMBER.....50-373  
LICENSE & DATE ISSUANCE...NPF-11, AUGUST 13, 1982  
PUBLIC DOCUMENT ROOM.....ILLINOIS VALLEY COMMUNITY COLLEGE  
RURAL ROUTE NO. 1  
OGLESBY, ILLINOIS 61348

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON DECEMBER 1 THROUGH JANUARY 5 (87034, 87033): ROUTINE, ANNOUNCED INSPECTION BY A REGION BASED INSPECTOR OF THE CONTAINMENT INTEGRATED LEAK RATE TEST (CILRT) PROCEDURE, CILRT RESULTS AND LICENSEE EVENT REPORT FOLLOWUP. NRC MODULES UTILIZED DURING THIS INSPECTION INCLUDED 61720, 70307, 70323 AND 92731. ONE VIOLATION WAS IDENTIFIED (FAILURE TO ADEQUATELY REVIEW THE USE OF OUT OF CALIBRATION MEASURING AND TEST EQUIPMENT).

INSPECTION ON DECEMBER 1 THROUGH JANUARY 6 (87035, 87034): ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; REGIONAL REQUESTS; UNIT TRIPS; PART 29 NOTIFICATIONS; BULLETINS/TEMPORARY INSTRUCTIONS; AND ALLEGATIONS. OF THE ELEVEN AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN TEN AREAS; ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA (FAILURE TO FOLLOW PROCEDURES). THE LICENSEE HAD TWO EXAMPLES OF OPERATING PERSONNEL FAILING TO FOLLOW PROCEDURES RESULTING IN THE ISSUANCE OF ONE NOTICE OF VIOLATION WITH TWO EXAMPLES. THE LICENSEE CONTINUES TO NEED TO STRESS ADHERENCE TO PROCEDURES. A CAL WAS ISSUED TO ESTABLISH AN AGREEMENT ON THE ACTIONS NEEDED TO BE TAKEN CONCERNING A PROBLEM WITH THE MAIN STEAM ISOLATION VALVE FAST ACTING SOLENOID. THIS EVENT AND THE EVENT WITH THE WALL THINNING OF A MAIN FEED LINE MINIMUM FLOW LINE DEMONSTRATED THE LICENSEE'S COOPERATIVENESS IN COMMUNICATING THE DETAIL OF THE EVENTS AND ESTABLISHING THE CORRECTIVE ACTION TO RESOLVE THEM. THE OVERALL PERFORMANCE OF THE LICENSEE CONTINUES TO IMPROVE WITH SOME MINOR PROBLEMS WITH PROCEDURE ADHERENCE.

INSPECTION ON JANUARY 11-14 AND 20-22 (88002, 88002): ROUTINE, ANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS (92702) AND IMPLEMENTATION OF GENERIC LETTER 85-06 RELATIVE TO ATWS MITIGATING SYSTEMS (25020) (92703). ONE PREVIOUS VIOLATION, GENERIC LETTER 85-06, AND TEMPORARY INSTRUCTION (TI) 2500/20 WERE CLOSED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                   LASALLE 1                   \*  
\*\*\*\*\*

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT OPERATING ROUTINELY AT POWER

LAST IE SITE INSPECTION DATE: 02/01/88

INSPECTION REPORT NO: 88003

R E P O R T S   F R O M   L I C E N S E E

.....

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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1. Docket: 50-374                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: G. J. KIRCHNER (815) 357-6761 X 704

4. Licensed Thermal Power (Mwt):                      3323

5. Nameplate Rating (Gross MWe):                      1078

6. Design Electrical Rating (Net MWe):                      1078

7. Maximum Dependable Capacity (Gross MWe):                      1078

8. Maximum Dependable Capacity (Net MWe):                      1036

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

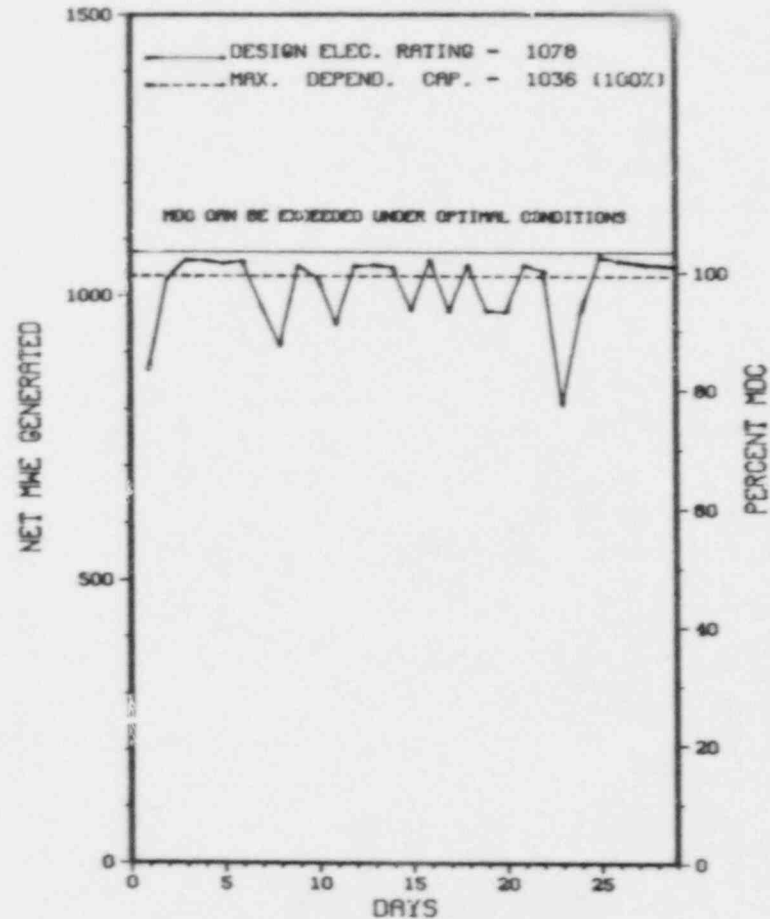
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>29,496.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>18,224.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,716.7</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>17,912.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,174,424</u>	<u>4,421,544</u>	<u>52,216,599</u>
18. Gross Elec Ener (MWH)	<u>730,007</u>	<u>1,483,093</u>	<u>17,291,304</u>
19. Net Elec Ener (MWH)	<u>706,305</u>	<u>1,433,312</u>	<u>16,515,835</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>60.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>60.7</u>
22. Unit Cap Factor (MDC Net)	<u>98.0</u>	<u>96.1</u>	<u>54.0</u>
23. Unit Cap Factor (DER Net)	<u>94.1</u>	<u>92.3</u>	<u>51.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>18.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>4,099.8</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
X                      LASALLE 2                      X  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
LASALLE 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XX  
 \* LASALLE 2 \*  
 XX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	02/07/88	F	0.0	A	5				POWER REDUCTION DUE TO LOSS OF POWER TO FEEDWATER SYSTEM AND REACTOR RECIRC DOWNSHIFT.
3	02/10/88	S	0.0	B	5				MSTV SURVEILLANCES.
4	02/23/88	S	0.0	B	5				CONTROL ROD ADJUSTMENT.

XXXXXXXXXXXX LASALLE 2 INCURRED 3 POWER REDUCTIONS IN FEBRUARY FOR REASONS  
 \* SUMMARY \* STATED ABOVE.  
 XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* LASALLE 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....LA SALLE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...11 MI SE OF  
OTTAWA, ILL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...MARCH 10, 1984  
DATE ELEC ENER 1ST GENER...APRIL 20, 1984  
DATE COMMERCIAL OPERATE...OCTOBER 19, 1984  
CONDENSER COOLING METHOD...POND  
CONDENSER COOLING WATER....RESERVOIR  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....COMMONWEALTH EDISON  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....M. JORDAN  
LICENSING PROJ MANAGER.....P. SHEMANSKI  
DOCKET NUMBER.....50-374  
LICENSE & DATE ISSUANCE...NPF-18, MARCH 23, 1984  
PUBLIC DOCUMENT ROOM.....ILLINOIS VALLEY COMMUNITY COLLEGE  
RURAL ROUTE NO. 1  
OGLESBY, ILLINOIS 61348

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON DECEMBER 1 THROUGH JANUARY 5 (87034, 87035): ROUTINE, ANNOUNCED INSPECTION BY A REGION BASED INSPECTOR OF THE CONTAINMENT INTEGRATED LEAK RATE TEST (CILRT) PROCEDURE, CILRT RESULTS AND LICENSEE EVENT REPORT FOLLOWUP. NRC MODULES UTILIZED DURING THIS INSPECTION INCLUDED 61720, 70307, 70323 AND 92701. ONE VIOLATION WAS IDENTIFIED (FAILURE TO ADEQUATELY REVIEW THE USE OF OUT OF CALIBRATION MEASURING AND TEST EQUIPMENT).

INSPECTION ON DECEMBER 1 THROUGH JANUARY 6 (87035, 87034): ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; REGIONAL REQUESTS; UNIT TRIPS; PART 21 NOTIFICATIONS; BULLETINS/TEMPORARY INSTRUCTIONS; AND ALLEGATIONS. OF THE ELEVEN AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN TEN AREAS; ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA (FAILURE TO FOLLOW PROCEDURES). THE LICENSEE HAD TWO EXAMPLES OF OPERATING PERSONNEL FAILING TO FOLLOW PROCEDURES RESULTING IN THE ISSUANCE OF ONE NOTICE OF VIOLATION WITH TWO EXAMPLES. THE LICENSEE CONTINUES TO NEED TO STRESS ADHERENCE TO PROCEDURES. A CAL WAS ISSUED TO ESTABLISH AN AGREEMENT ON THE ACTIONS NEEDED TO BE TAKEN CONCERNING A PROBLEM WITH THE MAIN STEAM ISOLATION VALVE FAST ACTING SOLENOID. THIS EVENT AND THE EVENT WITH THE WALL THINNING OF A MAIN FEED LINE MINIMUM FLOW LINE DEMONSTRATED THE LICENSEE'S COOPERATIVENESS IN COMMUNICATING THE DETAIL OF THE EVENTS AND ESTABLISHING THE CORRECTIVE ACTION TO RESOLVE THEM. THE OVERALL PERFORMANCE OF THE LICENSEE CONTINUES TO IMPROVE WITH SOME MINOR PROBLEMS WITH PROCEDURE ADHERENCE.

INSPECTION ON JANUARY 11-14 AND 20-22 (88002, 88002): ROUTINE, ANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS (92702) AND IMPLEMENTATION OF GENERIC LETTER 85-06 RELATIVE TO ATWS MITIGATING SYSTEMS (25020) (92703). ONE PREVIOUS VIOLATION, GENERIC LETTER 85-06, AND TEMPORARY INSTRUCTION (TI) 2500/20 WERE CLOSED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.



1. Docket: 50-352 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: R. W. GROPP (215) 841-5058  
 4. Licensed Thermal Power (Mwt): 3293  
 5. Nameplate Rating (Gross MWe): 1138  
 6. Design Electrical Rating (Net MWe): 1055  
 7. Maximum Dependable Capacity (Gross MWe): 1092  
 8. Maximum Dependable Capacity (Net MWe): 1055  
 9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_  
 11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>18,216.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>14,284.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>14,002.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,175,468</u>	<u>4,617,610</u>	<u>43,513,991</u>
18. Gross Elec Ener (MWH)	<u>699,530</u>	<u>1,493,050</u>	<u>14,192,460</u>
19. Net Elec Ener (MWH)	<u>674,501</u>	<u>1,439,970</u>	<u>13,607,307</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>76.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>76.9</u>
22. Unit Cap Factor (MDC Net)	<u>91.9</u>	<u>94.8</u>	<u>70.8</u>
23. Unit Cap Factor (DER Net)	<u>91.9</u>	<u>94.8</u>	<u>70.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>3.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>491.9</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

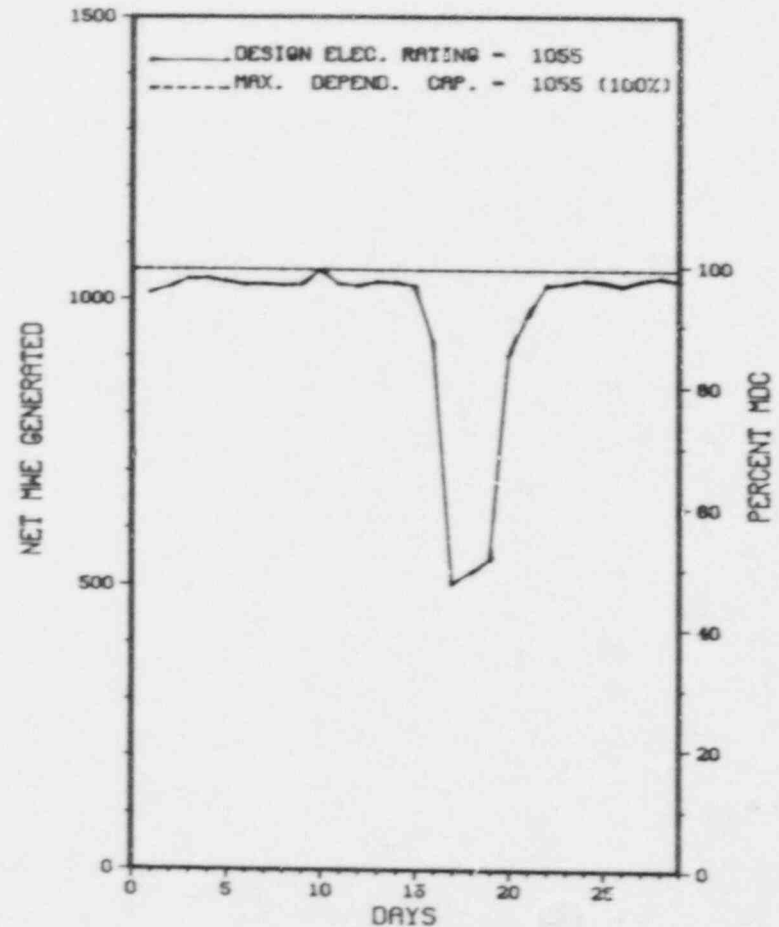
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 X LIMERICK 1 X  
 \*\*\*\*\*

AVERAGE DAILY POWF: LEVEL (MWe) PLOT

LIMERICK 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* LIMERICK 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/16/88	F	0.0	B	5		HC	HTEXCH	POWER REDUCED FOR CONDENSER TUBE LEAK INSPECTIONS AND TO REPAIR STEAM LEAKS IN SIXTH STRING FEEDWATER HEATERS.

XXXXXXXXXXXX LIMERICK 1 INCURRED 1 POWER REDUCTION IN FEBRUARY FOR REASONS STATED ABOVE.  
\* SUMMARY \*  
XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	F-Admin	2-Manual Scram	Instructions for
	B-Maint or Test	3-Auto Scram	Preparation of
	C-Refueling	4-Continued	Data Entry Sheet
	D-Regulatory Restriction	5-Reduced Load	Licensee Event Report
	E-Operator Training	3-Other	(LER) File (NUREG-0161)
	& License Examination		

\*\*\*\*\*  
\* LIMERICK 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....PENNSYLVANIA  
COUNTY.....MONTGOMERY  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...21 MI NW OF  
PHILADELPHIA, PA  
TYPE OF REACTOR.....SWR  
DATE INITIAL CRITICALITY...DECEMBER 22, 1984  
DATE ELEC ENER 1ST GENER...APRIL 13, 1985  
DATE COMMERCIAL OPERATE...FEBRUARY 1, 1986  
CONDENSER COOLING METHOD...CC HNDCT  
CONDENSER COOLING WATER...SCHUYLKILL RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PHILADELPHIA ELECTRIC  
CORPORATE ADDRESS.....2301 MARKET STREET  
PHILADELPHIA, PENNSYLVANIA 19105  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....G. KELLY  
LICENSING PROJ MANAGER.....D. CLARK  
DOCKET NUMBER.....50-352  
LICENSE & DATE ISSUANCE...NPF-39, AUGUST 8, 1985  
PUBLIC DOCUMENT ROOM.....POTTSTOWN PUBLIC LIBRARY  
500 HIGH STREET  
POTTSTOWN, PENNSYLVANIA 19464

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.





1. Docket: 50-309 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. M. TAYLOR (207) 882-6321

4. Licensed Thermal Power (MWt): 2630

5. Nameplate Rating (Gross MWe): 864

6. Design Electrical Rating (Net MWe): 825

7. Maximum Dependable Capacity (Gross MWe): 851

8. Maximum Dependable Capacity (Net MWe): 810

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>134,196.6</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,423.9</u>	<u>107,276.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,410.8</u>	<u>104,069.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,801,731</u>	<u>3,672,882</u>	<u>238,033,216</u>
18. Gross Elec Ener (MWH)	<u>564,700</u>	<u>1,155,620</u>	<u>78,044,350</u>
19. Net Elec Ener (MWH)	<u>545,939</u>	<u>1,117,480</u>	<u>74,592,429</u>
20. Unit Service Factor	<u>100.0</u>	<u>98.0</u>	<u>77.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>98.0</u>	<u>77.6</u>
22. Unit Cap Factor (MDC Net)	<u>96.8</u>	<u>95.8</u>	<u>70.2*</u>
23. Unit Cap Factor (DER Net)	<u>95.1</u>	<u>94.1</u>	<u>68.4*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.0</u>	<u>7.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>29.2</u>	<u>7,739.8</u>

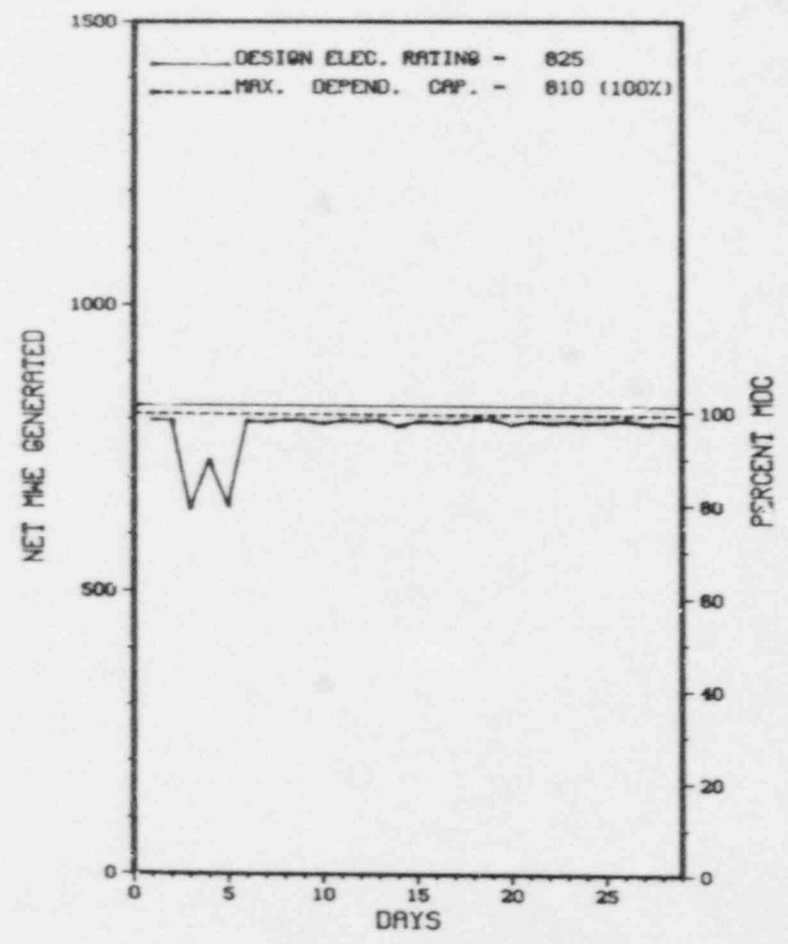
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* MAINE YANKEE \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MAINE YANKEE



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* MAINE YANKEE \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
LR-75%	02/03/88	S	0.0	B	5		HA	VALVEX	REDUCED POWER FOR TURBINE VALVE AND EXCESS FLOW CHECK VALVE TESTING, AND 'B' TRAVELLING WATER SCREEN MAINTENANCE.
LR-49%	02/04/88	F	0.0	A	5		HA	VOLVOP	POWER WAS REDUCED TO ISOLATE A LEAK IN THE TURBINE CONTROL OIL SYSTEM. THE WELD-JOINT WAS REPAIRED AND THE UNIT RETURNED TO 100% POWER.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 MAINE YANKEE INCURRED 2 POWER REDUCTIONS IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* MAINE YANKEE \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MAINE  
COUNTY.....LINCOLN  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...10 MI N OF  
BATH, ME  
TYPE OF REACTOR.....PHR  
DATE INITIAL CRITICALITY...OCTOBER 23, 1972  
DATE ELEC ENER 1ST GENER...NOVEMBER 8, 1972  
DATE COMMERCIAL OPERATE...DECEMBER 28, 1972  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...BACK RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....MAINE YANKEE ATOMIC POWER  
CORPORATE ADDRESS.....83 EDISON DRIVE  
AUGUSTA, MAINE 04366  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....C. HOLDEN  
LICENSING PROJ MANAGER....P. SEARS  
DOCKET NUMBER.....50-309  
LICENSE & DATE ISSUANCE...DPR-36, JUNE 29, 1973  
PUBLIC DOCUMENT ROOM.....WISCASSET PUBLIC LIBRARY  
HIGH STREET  
WISCASSET, MAINE 04578

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\*                   MAINE YANKEE                   \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

=====

1. Docket: 50-369 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (Mwt): 3411

5. Nameplate Rating (Gross MWe): 1305

6. Design Electrical Rating (Net MWe): 1180

7. Maximum Dependable Capacity (Gross MWe): 1225

8. Maximum Dependable Capacity (Net MWe): 1129

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any:           
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>54,768.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,425.4</u>	<u>38,289.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-line	<u>696.0</u>	<u>1,422.8</u>	<u>37,766.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,314,778</u>	<u>4,694,677</u>	<u>109,763,094</u>
18. Gross Elec Ener (MWH)	<u>801,284</u>	<u>1,631,087</u>	<u>38,026,664</u>
19. Net Elec Ener (MWH)	<u>773,164</u>	<u>1,572,702</u>	<u>36,238,200</u>
20. Unit Service Factor	<u>100.0</u>	<u>98.8</u>	<u>69.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>98.8</u>	<u>69.0</u>
22. Unit Cap Factor (MBC Net)	<u>98.4</u>	<u>96.7</u>	<u>58.6</u>
23. Unit Cap Factor (DER Net)	<u>94.1</u>	<u>92.6</u>	<u>56.1</u>
24. Unit Forced Outage late	<u>.0</u>	<u>.2</u>	<u>13.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>17.2</u>	<u>6,039.9</u>

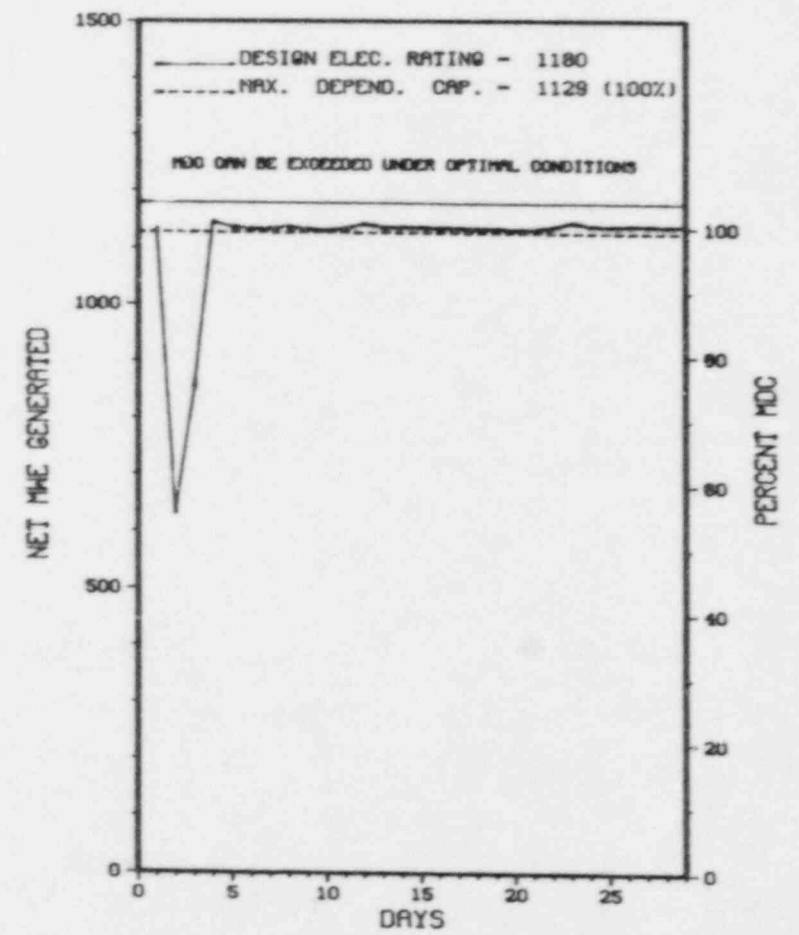
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* MCGUIRE 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* MCGUIRE 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
11-P	02/02/88	F	0.0	A	5		HG	ZZZZZ	HI SODIUM IN SECONDARY SYSTEM
12-P	02/02/88	F	0.0	B	5		IE	INSTRU	NUCLEAR INSTRUMENTATION CALIBRATION.
13-P	02/02/88	F	0.0	A	5		HG	ZZZZZ	HI SODIUM IN SECONDARY SYSTEM.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 MCGUIRE 1 INCURRED 3 POWER REDUCTIONS IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* MCGUIRE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NORTH CAROLINA  
COUNTY.....MECKLENBURG  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...17 MI N OF  
CHARLOTTE, NC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 8, 1981  
DATE ELEC ENER 1ST GENER...SEPTEMBER 12, 1981  
DATE COMMERCIAL OPERATE...DECEMBER 1, 1981  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE NORMAN  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUKE POWER  
CORPORATE ADDRESS.....422 SOUTH CHURCH STREET  
CHARLOTTE, NORTH CAROLINA 28242  
CONTRACTOR  
ARCHITECT/ENGINEER.....DUKE POWER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DUKE POWER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....W. ORDERS  
LICENSING PROJ MANAGER.....D. HOOD  
DOCKET NUMBER.....50-369  
LICENSE & DATE ISSUANCE...NPF-9, JULY 8, 1981  
PUBLIC DOCUMENT ROOM.....MS. DAWN HUBBS  
ATKINS LIBRARY  
UNIVERSITY OF NORTH CAROLINA - CHARLOTTE  
UNCC STATION,  
CHARLOTTE, NC 28223

INSPECTION SUMMARY

I N S P E C T I O N S T A T U S

+ INSPECTION NOVEMBER 21 - JANUARY 20 (87-43): THIS ROUTINE, UNANNOUNCED ONSITE INSPECTION INVOLVED THE AREAS OF OPERATIONS, SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, AND REVIEW OF LICENSEE ACTIONS PERTAINING TO GENERIC LETTER GL 81-21 NATURAL CIRCULATION COOLDOWN. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED INVOLVING AN INACCURATE ELECTRICAL PRINT AND FAILURE TO FOLLOW PROCEDURE.

INSPECTION NOVEMBER 7 - JANUARY 13 (87-46): THIS SPECIAL UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION AND SURVEILLANCE TESTING. IN THE AREAS INSPECTED, ONE VIOLATION INVOLVING AN INEQUATE SURVEILLANCE TEST PROGRAM WHICH LED TO INOPERABLE SAFETY RELATED EQUIPMENT WAS IDENTIFIED.

INSPECTION JANUARY 19-21 (88-03): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED REVIEW AND EVALUATION OF THE LICENSEE'S RESPONSE TO FINDINGS IDENTIFIED DURING THE EMERGENCY RESPONSE FACILITY APPRAISAL CONDUCTED SEPTEMBER 3-11. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 1-5 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS TO ASSESS THE OPERATIONAL READINESS OF THE SITE EMERGENCY PREPAREDNESS PROGRAM; AND TO DETERMINE IF CHANGES TO THE EMERGENCY PREPAREDNESS PROGRAM SINCE THE MARCH 1987 INSPECTION MEET NRC REQUIREMENTS, COMMITMENTS, AND THE AFFECT OF CHANGES ON THE OVERALL STATE OF EMERGENCY PREPAREDNESS. IN ADDITION, A REVIEW WAS CONDUCTED OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED INSPECTION FINDINGS, AND FOLLOWUP ON REPORTABLE EVENTS BY THE





Report Period FEB 1988

REPORTS FROM LICENSEE

\*\*\*\*\*  
\* MCGUIRE 1 \*  
\*\*\*\*\*

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-033	12/08/87	01/29/88	FOUR MAIN STEAM TO AUX EQUIP VALVES WERE OMITTED FROM THE INSERVICE VALVE TESTING PROG INCORRECT DETERM-PERS ERROR
87-037	12/31/87	02/01/88	WASTE GAS SURV SAMPLE WAS NOT OBTAINED WITHIN TECH SPEC TIME LIMIT INCORRECT DETERMINATION - PERSONNEL ERROR
88-001	01/07/88	02/08/88	REACTOR TRIP/TURBINE TRIP DUE TO A MALFUNCTION IN THE EXCITATION SWITCHGEAR SILICON CONTROLLED RECTIFIER FIRING
88-002	01/11/88	02/15/88	A HANGER CLAMP INSTALLED ON CONTAINMENT ISOLATION VALVE IN A UNACCEPTABLE LOCATION DUE TO APPARENT PERSONNEL ERROR

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1. Docket: 50-370 OPERATING STATUS  
 2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0  
 3. Utility Contact: J. A. REAVIS EXT (704) 373-7567  
 4. Licensed Thermal Power (MWT): 3411  
 5. Nameplate Rating (Gross MWe): 1450 X .9 = 1305  
 6. Design Electrical Rating (Net MWe): 1180  
 7. Maximum Dependable Capacity (Gross MWe): 1225  
 8. Maximum Dependable Capacity (Net MWe): 1129  
 9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_  
 11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>35,064.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,422.1</u>	<u>25,868.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,417.2</u>	<u>25,244.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,372,171</u>	<u>9,748,107</u>	<u>82,993,711</u>
18. Gross Elec Ener (MWH)	<u>829,158</u>	<u>1,659,429</u>	<u>28,734,657</u>
19. Net Elec Ener (MWH)	<u>800,043</u>	<u>1,599,429</u>	<u>27,535,431</u>
20. Unit Service Factor	<u>100.0</u>	<u>98.4</u>	<u>72.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>98.4</u>	<u>72.0</u>
22. Unit Cap Factor (MDC Net)	<u>101.8</u>	<u>98.4</u>	<u>69.6</u>
23. Unit Cap Factor (DER Net)	<u>97.4</u>	<u>94.1</u>	<u>66.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.6</u>	<u>11.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>22.8</u>	<u>3,417.3</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

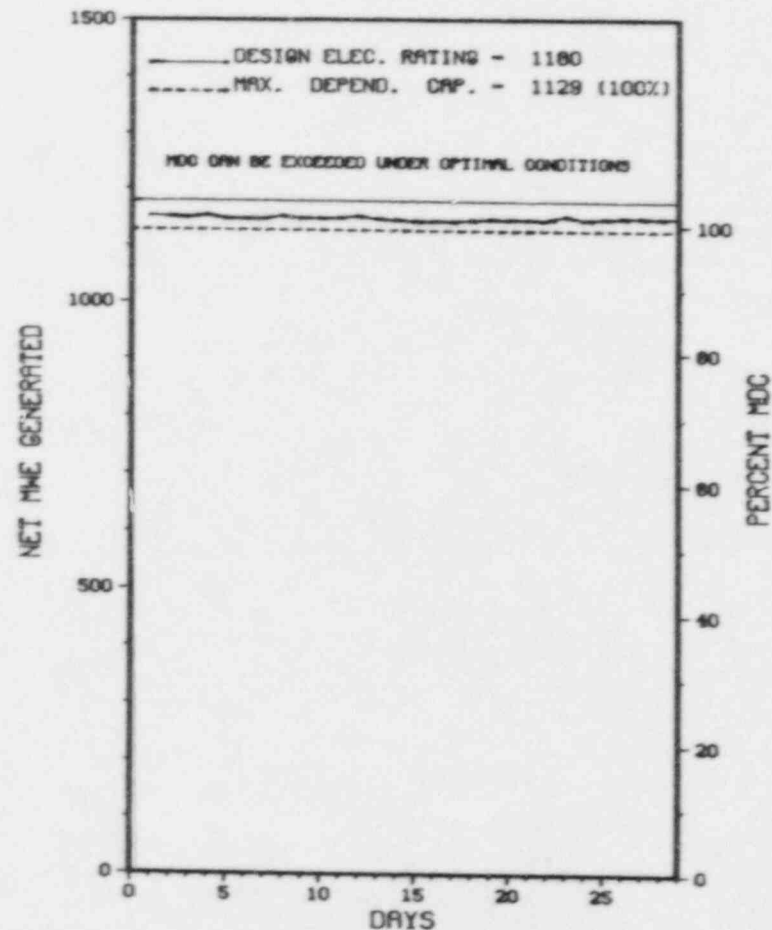
REFUELING - MAY 27, 1988 - 10 WEEK DURATION.

27. If Currently Shutdown Estimated Startup Date: R/A

\*\*\*\*\*  
 \* MCGUIRE 2 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* MCGUIRE 2 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
-----	------	------	-------	--------	--------	------------	--------	-----------	---

NONE

XXXXXXXXXXXX MCGUIRE 2 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR  
\* SUMMARY \* SIGNIFICANT POWER REDUCTIONS.  
XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* MCGUIRE 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NORTH CAROLINA  
COUNTY.....MECKLENBURG  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...17 MI N OF  
CHARLOTTE, NC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 8, 1983  
DATE ELEC ENER 1ST GENER...MAY 23, 1983  
DATE COMMERCIAL OPERATE...MARCH 1, 1984  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE NORMAN  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUKE POWER  
CORPORATE ADDRESS.....POWER BLDG., BOX 2178  
CHARLOTTE, NORTH CAROLINA 28201  
CONTRACTOR  
ARCHITECT/ENGINEER.....DUKE POWER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DUKE POWER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....W. ORDERS  
LICENSING PROJ MANAGER.....D. HOOD  
DOCKET NUMBER.....50-370  
LICENSE & DATE ISSUANCE...NPF-17, MAY 27, 1983  
PUBLIC DOCUMENT ROOM.....MS. DAWN HUBBS  
ATKINS LIBRARY  
UNIVERSITY OF NORTH CAROLINA - CHARLOTTE  
UNCC STATION,  
CHARLOTTE, NC 28223

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

\* INSPECTION NOVEMBER 21 - JANUARY 20 (87-43): THIS ROUTINE, UNANNOUNCED ONSITE INSPECTION INVOLVED THE AREAS OF OPERATIONS, SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, AND REVIEW OF LICENSEE ACTIONS PERTAINING TO GENFRIC LETTER GL 81-21 NATURAL CIRCULATION COOLDOWN. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED INVOLVING AN INACCURATE ELECTRICAL PRINT AND FAILURE TO FOLLOW PROCEDURE.

INSPECTION NOVEMBER 7 - JANUARY 13 (87-46): THIS SPECIAL UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION AND SURVEILLANCE TESTING. IN THE AREAS INSPECTED, ONE VIOLATION INVOLVING AN INDEQUATE SURVEILLANCE TEST PROGRAM WHICH LED TO INOPERABLE SAFETY RELATED EQUIPMENT WAS IDENTIFIED.

INSPECTION JANUARY 19-21 (88-03): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED REVIEW AND EVALUATION OF THE LICENSEE'S RESPONSE TO FINDINGS IDENTIFIED DURING THE EMERGENCY RESPONSE FACILITY APPRAISAL CONDUCTED SEPTEMBER 3-11. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 1-5 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS TO ASSESS THE OPERATIONAL READINESS OF THE SITE EMERGENCY PREPAREDNESS PROGRAM; AND TO DETERMINE IF CHANGES TO THE EMERGENCY PREPAREDNESS PROGRAM SINCE THE MARCH 1987 INSPECTION MEET NRC REQUIREMENTS, COMMITMENTS, AND THE AFFECT OF CHANGES ON THE OVERALL STATE OF EMERGENCY PREPAREDNESS. IN ADDITION, A REVIEW WAS CONDUCTED OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED INSPECTION FINDINGS, AND FOLLOWUP ON REPORTABLE EVENTS BY THE



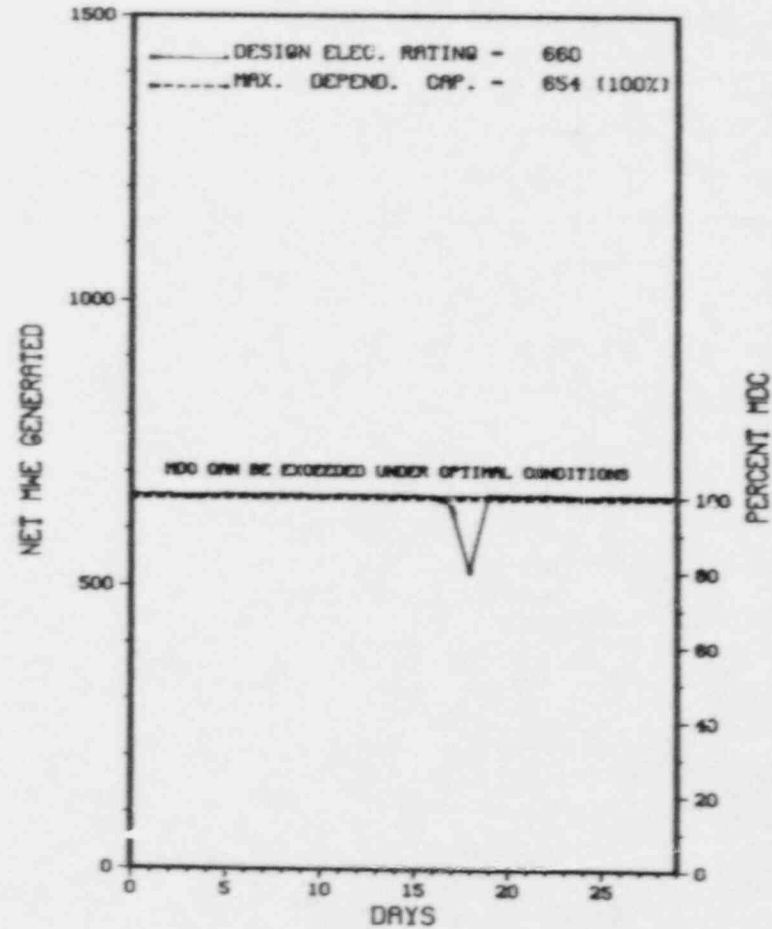
1. Docket: 50-245                      O P E R A T I N G   S T A T U S
2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0
3. Utility Contact: G NEWBURGH (203) 47-1791 X4400
4. Licensed Thermal Power (Mwt):                      2011
5. Nameplate Rating (Gross MWe):                      735 X 0.9 = 662
6. Design Electrical Rating (Net MWe):                      660
7. Maximum Dependable Capacity (Gross MWe):                      684
8. Maximum Dependable Capacity (Net MWe):                      654
9. If Changes Occur Above Since Last Report, Give Reasons: NONE
10. Power Level To Which Restricted, If Any (Net MWe):
11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>151,248.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>117,766.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,283.3</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>114,632.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>277.4</u>
17. Gross Therm Ener (MWH)	<u>1,386,553</u>	<u>2,879,331</u>	<u>213,085,426</u>
18. Gross Elec Ener (MWH)	<u>475,700</u>	<u>988,300</u>	<u>71,764,896</u>
19. Net Elec Ener (MWH)	<u>455,308</u>	<u>945,950</u>	<u>68,463,411</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>75.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>76.0</u>
22. Unit Cap Factor (MDC Net)	<u>100.0</u>	<u>100.4</u>	<u>69.2</u>
23. Unit Cap Factor (DER Net)	<u>99.1</u>	<u>99.5</u>	<u>68.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>11.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>6,306.5</u>
26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration): <u>NONE</u>			
27. If Currently Shutdown Estimated Startup Date: <u>N/A</u>			

XX  
 \*                      MILLSTONE 1                      \*  
 XX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* MILLSTONE 1 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
MILLSTONE 1 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* MILLSTONE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION:  
STATE.....CONNECTICUT  
COUNTY.....NEW LONDON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI SW DF  
NEW LONDON, CONN  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...OCTOBER 26, 1970  
DATE ELEC ENER 1ST GENER...NOVEMBER 29, 1970  
DATE COMMERCIAL OPERATE...MARCH 1, 1971  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LONG ISLAND SOUND  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NORTHEAST NUCLEAR ENERGY  
CORPORATE ADDRESS.....P.O. BOX 270  
HARTFORD, CONNECTICUT 06101  
CONTRACTOR  
ARCHITECT/ENGINEER.....EBASCO  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....EBASCO  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....W. RAYMOND  
LICENSING PROJ MANAGER....M. BOYLE  
DOCKET NUMBER.....50-245  
LICENSE & DATE ISSUANCE...DPR-21, OCTOBER 26, 1970  
PUBLIC DOCUMENT ROOM.....WATERFORD PUBLIC LIBRARY  
49 ROPE FERRY ROAD  
WATERFORD, CONNECTICUT 06385

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.



1. Docket: 50-336 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: G. NERON (203) 447-1791 X4417

4. Licensed Thermal Power (Mbt): 2700

5. Nameplate Rating (Gross MWe): 1011 X 0.9 = 910

6. Design Electrical Rating (Net MWe): 870

7. Maximum Dependable Capacity (Gross MWe): 889

8. Maximum Dependable Capacity (Net MWe): 857

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any:           
NONE

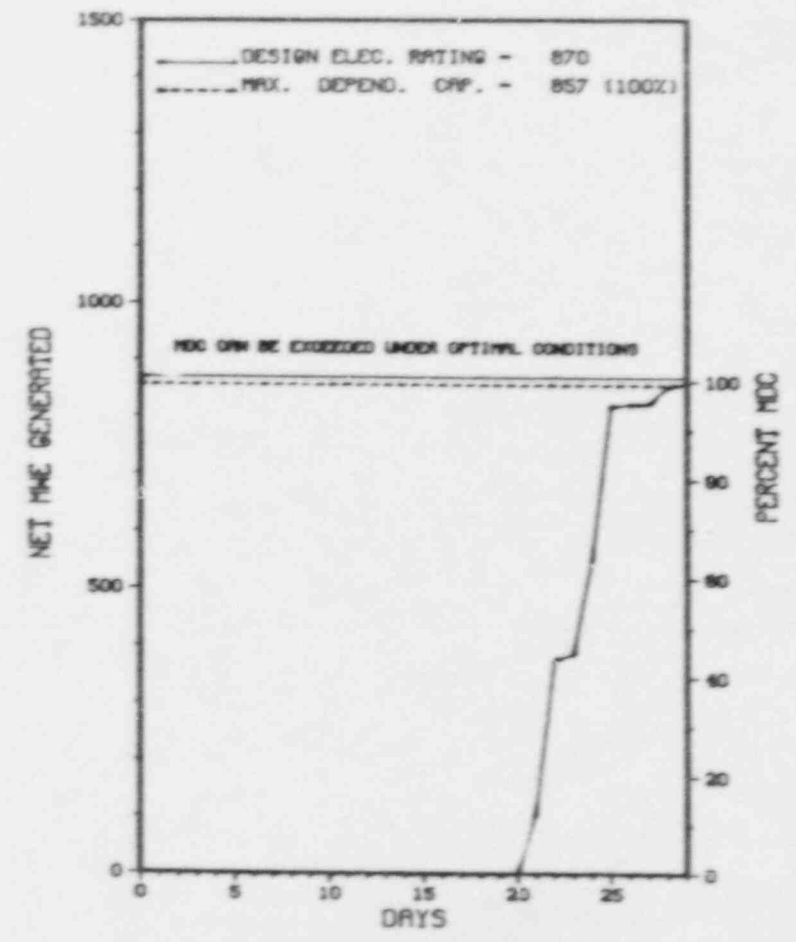
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>106,776.0</u>
13. Hours Reactor Critical	<u>292.5</u>	<u>292.5</u>	<u>76,556.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,166.9</u>
15. Hrs Generator On-Line	<u>214.8</u>	<u>214.8</u>	<u>73,466.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>468.2</u>
17. Gross Therm Ener (MWH)	<u>439,630</u>	<u>439,630</u>	<u>187,759,621</u>
18. Gross Elec Ener (MWH)	<u>140,500</u>	<u>140,500</u>	<u>61,003,073</u>
19. Net Elec Ener (MWH)	<u>128,955</u>	<u>125,619</u>	<u>58,501,876</u>
20. Unit Service Factor	<u>30.9</u>	<u>14.9</u>	<u>68.8</u>
21. Unit Avail Factor	<u>30.9</u>	<u>14.9</u>	<u>69.2</u>
22. Unit Cap Factor (MDC Net)	<u>21.6</u>	<u>10.2</u>	<u>64.6*</u>
23. Unit Cap Factor (DER Net)	<u>21.3</u>	<u>10.0</u>	<u>63.6*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>15.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>11,785.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* MILLSTONE 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
MILLSTONE 2



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* MILLSTONE 2 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
87-09	12/31/87	S	481.2	C	4			COMPLETION OF REFUEL MAINTENANCE OUTAGE.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 MILLSTONE 2 ENTERED FEBRUARY SHUTDOWN FOR SCHEDULED REFUELING  
 OUTAGE. SUBSEQUENTLY RETURNED TO POWER.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* MILLSTONE 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CONNECTICUT  
COUNTY.....NEW LONDON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI SW OF  
NEW LONDON, CONN  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...OCTOBER 17, 1975  
DATE ELEC ENER 1ST GENER...NOVEMBER 9, 1975  
DATE COMMERCIAL OPERATE...DECEMBER 26, 1975  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LONG ISLAND SOUND  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NORTHEAST NUCLEAR ENERGY  
CORPORATE ADDRESS.....P.O. BOX 270  
HARTFORD, CONNECTICUT 06101  
CONTRACTOR  
ARCHITECT/ENGINEER.....  
NUC STEAM SYS SUPPLIER.....ENGINEERING  
CONSTRUCTOR.....  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....W. RAYMOND  
LICENSING PROJ MANAGER.....D. JAFFE  
DOCKET NUMBER.....50-336  
LICENSE & DATE ISSUANCE...DPR-65, SEPTEMBER 30, 1975  
PUBLIC DOCUMENT ROOM.....WATERFORD PUBLIC LIBRARY  
49 ROPE FERRY ROAD  
WATERFORD, CONNECTICUT 06385

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50 APPENDIX B CRITERION XVI REQUIREMENTS FOR PROMPT CORRECTIVE ACTIONS, THE DC VITAL SWITCHGEAR ROOM SAFETY-RELATED VENTILATION CHILLERS WERE INOPERABLE FOR ALMOST 4 YEARS.  
(8702 4)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                   MILLSTONE 2                   \*  
\*\*\*\*\*

OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

=====

1. Docket: 50-423                    O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: A. ELMS (203) 444-5388

4. Licensed Thermal Power (Mwt):                    3411

5. Nameplate Rating (Gross MWe):                    1253

6. Design Electrical Rating (Net MWe):                    1154

7. Maximum Dependable Capacity (Gross MWe):                    1197

8. Maximum Dependable Capacity (Net MWe):                    1142

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>16,272.0</u>
13. Hours Reactor Critical	<u>614.7</u>	<u>614.7</u>	<u>12,378.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>226.0</u>
15. Hrs Generator On-Line	<u>448.5</u>	<u>448.5</u>	<u>12,039.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,349,671</u>	<u>1,349,671</u>	<u>43,619,102</u>
18. Gross Elec Ener (MWH)	<u>462,292</u>	<u>462,292</u>	<u>13,671,562</u>
19. Net Elec Ener (MWH)	<u>431,737</u>	<u>422,750</u>	<u>13,026,827</u>
20. Unit Service Factor	<u>64.4</u>	<u>31.1</u>	<u>74.0</u>
21. Unit Avail Factor	<u>64.4</u>	<u>31.1</u>	<u>74.0</u>
22. Unit Cap Factor (MDC Net)	<u>54.3</u>	<u>25.7</u>	<u>70.1</u>
23. Unit Cap Factor (DER Net)	<u>53.8</u>	<u>25.4</u>	<u>69.4</u>
24. Unit Forced Outage Rate	<u>7.6</u>	<u>7.6</u>	<u>8.5</u>
25. Forced Outage Hours	<u>37.1</u>	<u>37.1</u>	<u>1,111.6</u>

26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):

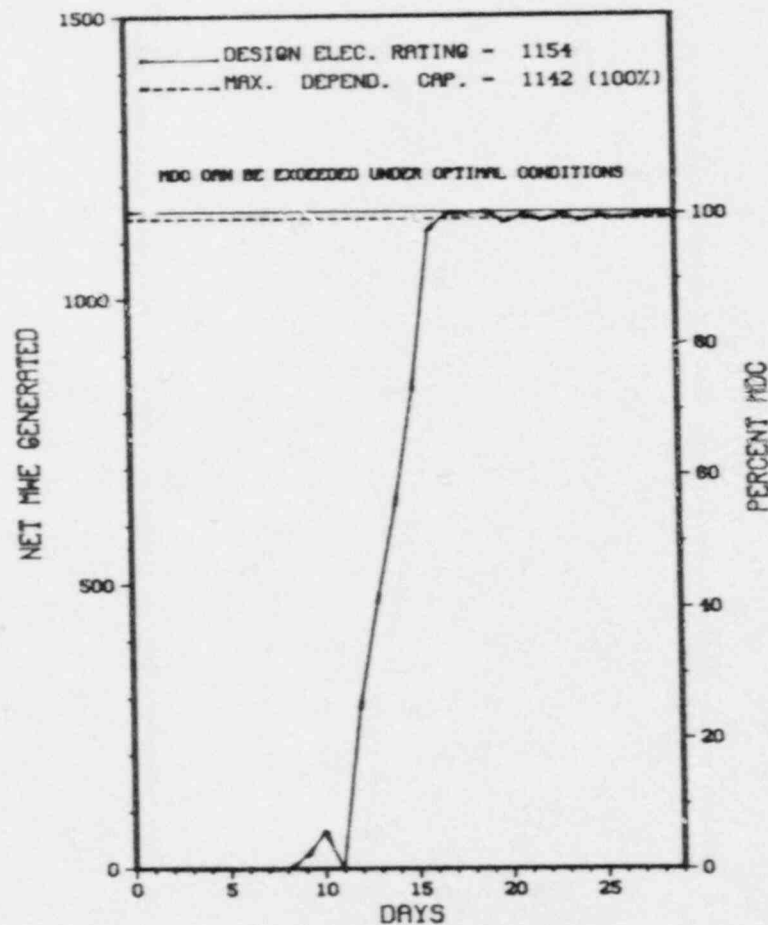
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \*                    MILLSTONE 3                    \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWS) PLOT

MILLSTONE 3



FEBRUARY 1988

Report Period FEB 1988

IT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* MILLSTONE 3 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-12	02/01/88	S	208.8	C				SHUTDOWN CONTINUATION FROM LAST MONTH. REFUEL OUTAGE.
88-01	02/10/88	F	37.1	G	88-009	JB	FCV	REACTOR TRIP DUE TO LOW S/G WATER LEVEL DURING TRANSFER FROM FEED REG VALVE TO BYPASS VALVE.
88-02	02/12/88	S	1.6	B				TURBINE TRIP FOR OVERSPEED TESTING.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 MILLSTONE 3 ENTERED FEBRUARY SHUTDOWN FOR SCHEDULED REFUELING OUTAGE. SUBSEQUENTLY RETURNED TO POWER AND EXPERIENCED OUTAGES AS DISCUSSED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)
	F-Admin		
	G-Oper Error		
	H-Other		



\*\*\*\*\*  
\* MILLSTONE 3 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CONNECTICUT  
COUNTY.....NEW LONDON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...3.2 MI WSW OF  
NEW LONDON CT.  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JANUARY 23, 1986  
DATE ELEC ENER 1ST GENER...FEBRUARY 12, 1986  
DATE COMMERCIAL OPERATE...APRIL 23, 1986  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...NANTIC BAY  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NORTHEAST NUCLEAR ENERGY  
CORPORATE ADDRESS.....P.O. BOX 270  
HARTFORD, CONNECTICUT 06101  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....W. RAYMOND  
LICENSING PROJ MANAGER....R. FERGUSON  
DOCKET NUMBER.....50-423  
LICENSE & DATE ISSUANCE...NPF-49, JANUARY 31, 1986  
PUBLIC DOCUMENT ROOM.....WATERFORD PUBLIC LIBRARY  
49 ROPE FERRY ROAD  
WATERFORD, CONNECTICUT 06385

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INFO. NOT SUPPLIED BY REGION

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INFO. NOT SUPPLIED BY REGION

FACILITY ITEMS (PLANS AND PROCEDURES):

INFO. NOT SUPPLIED BY REGION

MANAGERIAL ITEMS:

INFO. NOT SUPPLIED BY REGION



1. Docket: 50-263 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: A. L. Myrabo (612) 295-5151

4. Licensed Thermal Power (Mwt): 1670

5. Nameplate Rating (Gross MWe): 632 X 0.9 = 569

6. Design Electrical Rating (Net MWe): 545

7. Maximum Dependable Capacity (Gross MWe): 564

8. Maximum Dependable Capacity (Net MWe): 536

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>146,113.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>113,677.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>940.7</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>111,453.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,158,394</u>	<u>2,387,643</u>	<u>178,065,717</u>
18. Gross Elec Ener (MWH)	<u>392,791</u>	<u>810,388</u>	<u>57,690,444</u>
19. Net Elec Ener (MWH)	<u>378,287</u>	<u>780,238</u>	<u>55,151,356</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>76.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>76.3</u>
22. Unit Cap Factor (MDC Net)	<u>101.4</u>	<u>101.1</u>	<u>70.4</u>
23. Unit Cap Factor (DER Net)	<u>99.7</u>	<u>99.4</u>	<u>69.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>4.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>1,498.3</u>

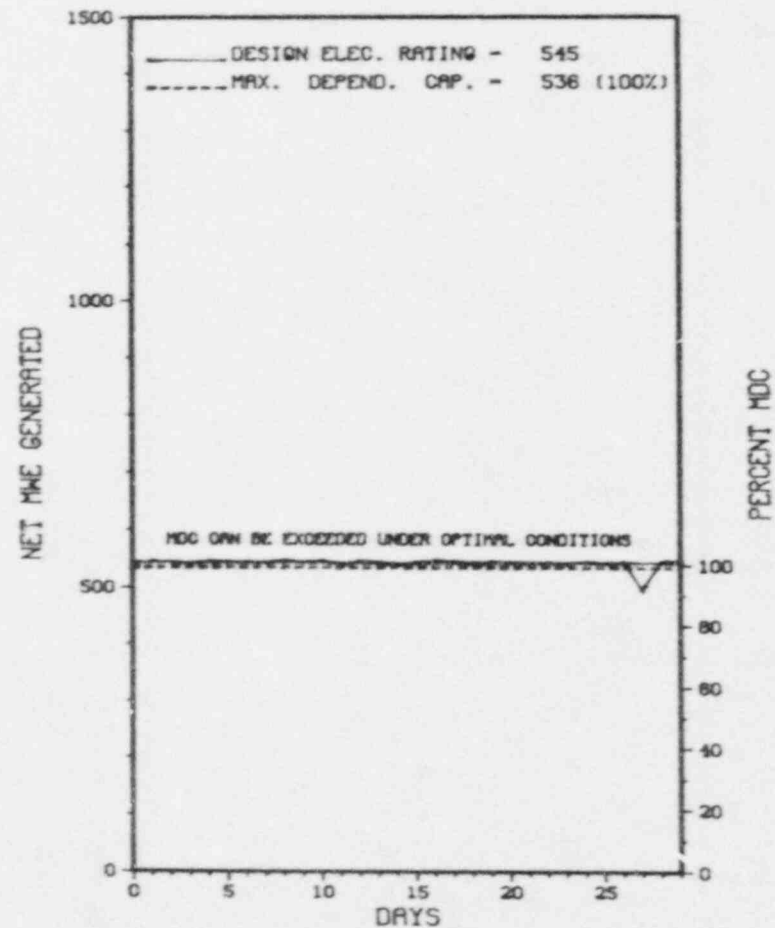
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
X MONTICELLO X  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MONTICELLO



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* MONTICELLO \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
-----	------	------	-------	--------	--------	------------	------------------	---

NONE

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 MONTICELLO OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR  
 SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* MONTICELLO \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MINNESOTA  
COUNTY.....WRIGHT  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...30 MI NW OF  
MINNEAPOLIS, MINN  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...DECEMBER 10, 1970  
DATE ELEC ENER 1ST GENER...MARCH 5, 1971  
DATE COMMERCIAL OPERATE....JUNE 30, 1971  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-CONTINENT AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NORTHERN STATES POWER  
CORPORATE ADDRESS.....414 NICOLLET MALL  
MINNEAPOLIS, MINNESOTA 55401  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....P. HARTMAN  
LICENSING PROJ MANAGER.....J. STEFANO  
DOCKET NUMBER.....50-263  
LICENSE & DATE ISSUANCE....DPR-22, JANUARY 9, 1981  
PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY  
MINNEAPOLIS PUBLIC LIBRARY  
300 NICOLLET MALL  
MINNEAPOLIS, MINNESOTA 55401

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 2-5, 16-19, AND DECEMBER 29-30 (87016): ROUTINE, UNANNOUNCED INSPECTION OF INSERVICE INSPECTION (ISI) WORK ACTIVITIES, TRAINING AND QUALIFICATION EFFECTIVENESS, AND FACILITY MODIFICATIONS (73501, 73502, 73753, 73755, 41400, 37701, 55700). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON OCTOBER 26 THROUGH JANUARY 28 (87013): SPECIAL ANNOUNCED SAFETY INSPECTION OF THE ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRIC EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. THE INSPECTION INCLUDED LICENSEE ACTION ON SER/TER COMMITMENTS; EQ PROGRAM COMPLIANCE TO 10 CFR 50.49 AND REGULATORY GUIDE 1.97; ADEQUACY OF EQ DOCUMENTATION; AND A PLANT PHYSICAL INSPECTION OF EQ EQUIPMENT (MODULES NO. 30703, NO. 25576 AND NO. 25587). ONE VIOLATION WAS IDENTIFIED RELATED TO 10 CFR 50.49. PARAGRAPHS (F) AND (G) REQUIRE EQUIPMENT IMPORTANT TO SAFETY TO BE QUALIFIED BY TESTING AND ANALYSIS PRIOR TO THE EQ DEADLINE OF NOVEMBER 30, 1985.

INSPECTION ON DECEMBER 1 THROUGH JANUARY 12 (87021): A ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY VERIFICATION; MAINTENANCE; SURVEILLANCE; AND START-UP ACTIVITIES. OF THE AREAS INSPECTED, ONE VIOLATION WITH MULTIPLE EXAMPLES, AND NO SAFETY CONCERNS WERE IDENTIFIED.



1. Docket: 50-220                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: THOMAS W. ROMAN (315) 349-2422

4. Licensed Thermal Power (MWT):                      1850

5. Nameplate Rating (Gross MWe):                      755 X 0.85 = 642

6. Design Electrical Rating (Net MWe):                      620

7. Maximum Dependable Capacity (Gross MWe):                      630

8. Maximum Dependable Capacity (Net MWe):                      610

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):                     

11. Reasons for Restrictions, If Any:                       
NONE

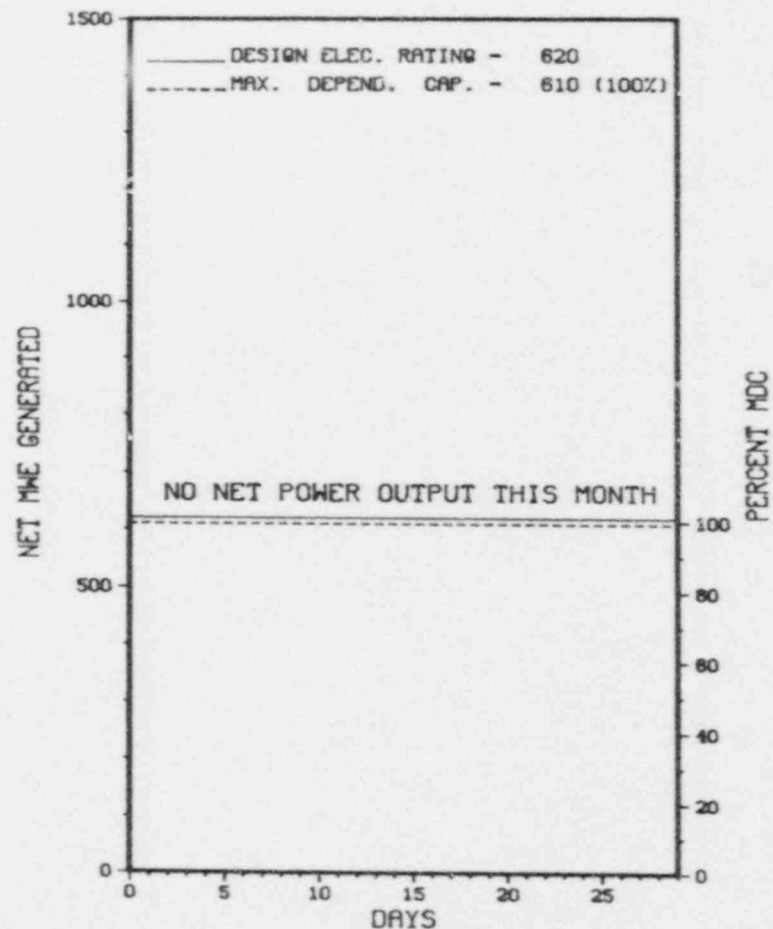
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>160,680.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>115,235.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,204.2</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>112,102.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>20.2</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>0</u>	<u>188,473,049</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>62,473,071</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>60,524,379</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>69.8</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>69.8</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>61.8</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>60.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>100.0</u>	<u>14.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>516.0</u>	<u>15,047.9</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: 04/13/88

\*\*\*\*\*  
\*                      NINE MILE POINT 1                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
NINE MILE POINT 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* NINE MILE POINT 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
02	01/22/88	S	696.0	C	4			THE DECISION WAS MADE TO START THE REFUEL OUTAGE SINCE THE PLANT WAS ALREADY SHUTDOWN DUE TO PROBLEMS WITH THE F.W. SYSTEM.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
NINE MILE POINT 1 REMAINED SHUTDOWN IN FEBRUARY FOR SCHEDULED REFUELING OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* NINE MILE POINT 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW YORK  
COUNTY.....OSWEGO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...8 MI NE OF  
OSWEGO, NY  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...SEPTEMBER 5, 1969  
DATE ELEC ENER 1ST GENER...NOVEMBER 9, 1969  
DATE COMMERCIAL OPERATE...DECEMBER 1, 1969  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE ONTARIO  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NIAGARA MOHAWK POWER CORP.  
CORPORATE ADDRESS.....300 ERIE BOULEVARD WEST  
SYRACUSE, NEW YORK 13202  
CONTRACTOR  
ARCHITECT/ENGINEER.....NIAGARA MOHAWK POWER CORP.  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....S. HUDSON  
LICENSING PROJ MANAGER....R. BENEDICT  
DOCKET NUMBER.....50-220  
LICENSE & DATE ISSUANCE...DPR-63, DECEMBER 26, 1974  
PUBLIC DOCUMENT ROOM.....STATE UNIVERSITY COLLEGE OF OSWEGO  
PENFIELD LIBRARY - DOCUMENTS  
OSWEGO, NY 13126  
(315) 341-2323

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   ( C O N T I N U E D )

\*\*\*\*\*  
\*            N I N E M I L E P O I N T 1            \*  
\*\*\*\*\*

OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

=====

1. Docket: 50-410 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: E. TOMLINSON (315) 349-2761

4. Licensed Thermal Power (Mwt): 3323

5. Nameplate Rating (Gross MWe): 1214

6. Design Electrical Rating (Net MWe): 1080

7. Maximum Dependable Capacity (Gross MWe): 1080

8. Maximum Dependable Capacity (Net MWe): 1080

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>4,236.0</u>
13. Hours Reactor Critical	<u>548.3</u>	<u>1,014.1</u>	<u>2,653.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>440.8</u>	<u>906.6</u>	<u>1,965.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,119,752</u>	<u>1,981,895</u>	<u>3,515,460</u>
18. Gross Elec Ener (MWH)	<u>366,000</u>	<u>628,400</u>	<u>1,003,300</u>
19. Net Elec Ener (MWH)	<u>334,060</u>	<u>567,550</u>	<u>828,545</u>
20. Unit Service Factor			
21. Unit Avail Factor		NOT IN	
22. Unit Cap Factor (MDC Net)		COMMERCIAL	
23. Unit Cap Factor (DER Net)		OPERATION	
24. Unit Forced Outage Rate			
25. Forced Outage Hours	<u>131.4</u>	<u>409.6</u>	<u>2,260.1</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

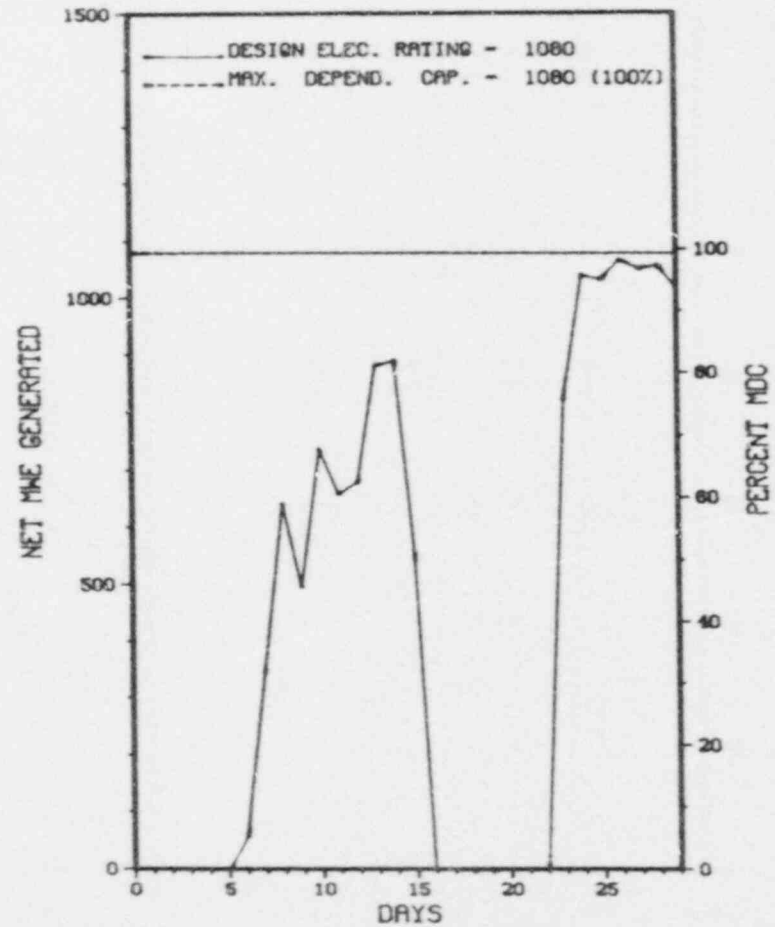
PLANNED SCRAM 3/5/88, PLANNED OUTAGE 5/1/88-DURA, 21 DAYS.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* NINE MILE POINT 2 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NINE MILE POINT 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 X NINE MILE POINT 2 X  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/01/88	F	131.4	G	4	88-01	LD	FLT	OPERATOR ISOLATED INSTRUMENT AIR CAUSING CONDENSER/ FEEDWATER MINIMUM FLOW VALVES TO OPEN. REACTOR SCRAMMED ON LOW (LEVEL 3) WATER LEVEL. STRENGTHENED ADMINISTRATIVE CONTROLS FOR TAG OUTS AND VALVE POSITION VERIFICATION. CONTINUATION FROM JANUARY REPORT PERIOD.
88-02	02/15/88	S	123.8	B	3				PLANNED SCRAM FOR SUT-25-6 AS PART OF POWER ASCENSION TESTING. INITIATED WITH MSIV CLOSURE.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 NINE MILE POINT 2 ENTERED THE MONTH IN AN OUTAGE,  
 SUBSEQUENTLY, RETURNED TO POWER AND INCURRED ANOTHER  
 PLANNED OUTAGE FOR TESTING.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
X NINE MILE POINT 2 X  
\*\*\*\*\*

Report Period FEB 1988

FACILITY DATA

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW YORK  
COUNTY.....OSWEGO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR... 8 MI NE OF  
OSWEGO, NY  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...MAY 23, 1987  
DATE ELEC ENER 1ST GENER...AUGUST 8, 1987  
DATE COMMERCIAL OPERATE...\*\*\*\*\*  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...LAKE ONTARIO  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NIAGARA MOHAWK POWER CORP.  
CORPORATE ADDRESS.....300 ERIE BOULEVARD WEST  
SYRACUSE, NEW YORK 13202  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....W. COOK  
LICENSING PROJ MANAGER.....M. HAUGHEY  
DOCKET NUMBER.....50-410  
LICENSE & DATE ISSUANCE...NPF-69, JULY 2, 1987  
PUBLIC DOCUMENT ROOM.....STATE UNIVERSITY COLLEGE OF OSWEGO  
PENFIELD LIBRARY - DOCUMENTS  
OSWEGO, NY 13126  
(315) 341-2323

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INFO. NOT SUPPLIED BY REGION

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INFO. NOT SUPPLIED BY REGION

FACILITY ITEMS (PLANS AND PROCEDURES):

INFO. NOT SUPPLIED BY REGION

MANAGERIAL ITEMS:

INFO. NOT SUPPLIED BY REGION

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                   NINE MILE POINT 2                   \*  
\*\*\*\*\*

PLANT STATUS:

INFO. NOT SUPPLIED BY REGION

LAST IE SITE INSPECTION DATE: INFO. NOT SUPPLIED BY REGION

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPGRT	SUBJECT
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INFO. NOT SUPPLIED BY REGION

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1. Docket: 50-338 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: B. GARNER (703) 894-5151 X2527

4. Licensed Thermal Power (Mwt): 2893

5. Nameplate Rating (Gross MWe): 947

6. Design Electrical Rating (Net MWe): 907

7. Maximum Dependable Capacity (Gross MWe): 963

8. Maximum Dependable Capacity (Net MWe): 915

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>85,345.0</u>
13. Hours Reactor Critical	<u>524.6</u>	<u>780.8</u>	<u>58,212.0</u>
14. Rx Reserve Shtdwn Hrs	<u>55.0</u>	<u>82.6</u>	<u>5,730.6</u>
15. Hrs Generator On-Line	<u>495.6</u>	<u>668.3</u>	<u>56,436.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,333,822</u>	<u>1,830,840</u>	<u>148,007,614</u>
18. Gross Elec Ener (MWH)	<u>441,028</u>	<u>602,853</u>	<u>48,506,741</u>
19. Net Elec Ener (MWH)	<u>417,957</u>	<u>571,469</u>	<u>45,866,063</u>
20. Unit Service Factor	<u>71.2</u>	<u>46.4</u>	<u>66.1</u>
21. Unit Avail Factor	<u>71.2</u>	<u>46.4</u>	<u>66.1</u>
22. Unit Cap Factor (MDC Net)	<u>65.6</u>	<u>43.4</u>	<u>58.7</u>
23. Unit Cap Factor (DER Net)	<u>66.2</u>	<u>43.8</u>	<u>59.3</u>
24. Unit Forced Outage Rate	<u>28.8</u>	<u>53.6</u>	<u>15.9</u>
25. Forced Outage Hours	<u>200.4</u>	<u>771.7</u>	<u>10,593.2</u>

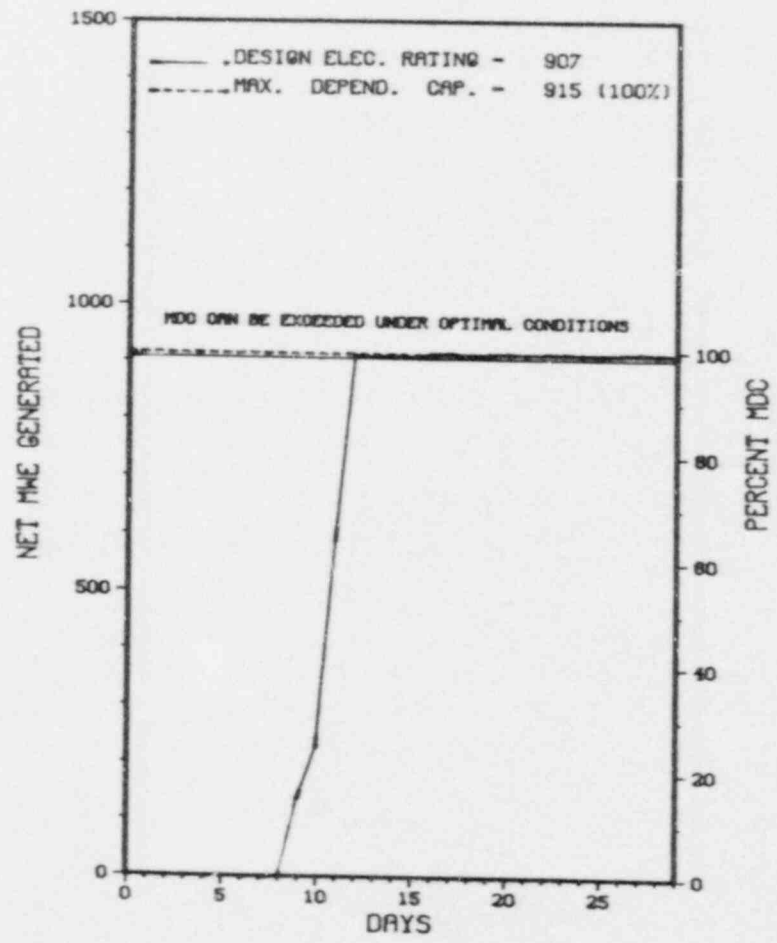
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* NORTH ANNA 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NORTH ANNA 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* NORTH ANNA 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	01/13/88	F	200.4	A	4	LER-88-004	KD		CONTINUATION FROM JANUARY 1988, WHEN UNIT WAS OFF LINE TO REPAIR REACTOR COOLANT PUMP SEAL AND FLUSHING THE STEAM GENERATOR AFTER POWDEX RESIN INTRUSION. REPAIRS WERE COMPLETED AND UNIT RETURNED ON LINE FEBRUARY 9, 1988 AT 0825.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 NORTH ANNA 1 RETURNED TO POWER ON FEBRUARY 9. OPERATED ROUTINELY FOR BALANCE OF MONTH.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)



\*\*\*\*\*  
\* NORTH ANNA 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....VIRGINIA  
COUNTY.....LOUISA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...40 MI NW OF  
RICHMOND, VA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...APRIL 5, 1978  
DATE ELEC ENER 1ST GENER...APRIL 17, 1978  
DATE COMMERCIAL OPERATE...JUNE 6, 1978  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE ANNA  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....VIRGINIA POWER  
CORPORATE ADDRESS.....P.O. BOX 26666  
RICHMOND, VIRGINIA 23261  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....M. BRANCH  
LICENSING PROJ MANAGER.....L. ENGLE  
DOCKET NUMBER.....50-338  
LICENSE & DATE ISSUANCE...NPF-4, APRIL 1, 1978  
PUBLIC DOCUMENT / JOM.....ALDERMAN LIBRARY/MANUSCRIPTS DEPT.  
UNIV. OF VIRGINIA/CHARLOTTESVILLE VA 22901

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION (T.S.) 6.11, ON NOVEMBER 24, 1987, SEVERAL OPERATIONS PERSONNEL FAILED TO FOLLOW THE REQUIREMENTS OF RWP 87-3156, WHICH REQUIRED A WHOLE BODY FRISK AFTER LEAVING THE AREA, IN THAT THEY FAILED TO PERFORM A WHOLE BODY FRISK AT THE DESIGNATED FRISKING SECTION. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, EMERGENCY OPERATING PROCEDURES (EOPS) USED BY THE LICENSEE FOR NATURAL CIRCULATION COOLDOWN ARE INADEQUATE IN THAT THE QUANTITATIVE COOLDOWN CURVES IN THE NATURAL CIRCULATION COOLDOWN PROCEDURES EXCEEDED THOSE SPECIFIED IN TECHNICAL SPECIFICATION FIGURE 3.4.3, COOLDOWN LIMITATIONS. THESE EOPS INCLUDE: ES-0.2A, NATURAL CIRCULATION COOLDOWN WITH SHROUD COOLING FANS, REV. 1; ES-0.2B, NATURAL CIRCULATION COOLDOWN WITHOUT SHROUD COOLING FANS, REV. 1; AND ES-0.3, NATURAL CIRCULATION COOLDOWN WITH STEAM VOID IN VESSEL (WITH RVLIS), REV. 1. (8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ RESIN IN SECONDARY PLANT.

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ COLD SHUTDOWN FOR RESIN CLEANUP.

LAST IE SITE INSPECTION DATE: DECEMBER 14-15, 1987 +

INSPECTION REPORT NO: 50-338/87-41 +

R E P O R T S   F R O M   L I C E N S E E

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=====
NUMBER      DATE OF      DATE OF      SUBJECT
            EVENT        REPORT
-----
88-002      01/08/88    02/03/88    MANUAL REACTOR TRIP IN ANTICIPATION OF LOSS OF THE MAIN CONDENSER
88-005      01/13/88    02/10/88    AUTOMATIC REACTOR TRIP DUE TO HI-HI STEAM GENERATOR LEVEL
88-010      02/10/88    02/23/88    KAMAN VENT STACK "B" RADIATION MONITOR EXCEEDED T.S. ACTION STATEMENT
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1. Docket: 50-339 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: B. GARNER (703) 894-5151 X2527

4. Licensed Thermal Power (MWt): 2893

5. Nameplate Rating (Gross MWe): 947

6. Design Electrical Rating (Net MWe): 907

7. Maximum Dependable Capacity (Gross MWe): 963

8. Maximum Dependable Capacity (Net MWe): 915

9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:           

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>63,216.0</u>
13. Hours Reactor Critical	<u>646.9</u>	<u>1,390.9</u>	<u>49,851.7</u>
14. Rx Reserve Shtdwn Hrs	<u>49.1</u>	<u>49.1</u>	<u>4,093.1</u>
15. Hrs Generator On-Line	<u>620.2</u>	<u>1,364.2</u>	<u>48,792.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,759,886</u>	<u>3,911,597</u>	<u>128,234,351</u>
18. Gross Elec Ener (MWH)	<u>584,341</u>	<u>1,300,936</u>	<u>42,528,117</u>
19. Net Elec Ener (MWH)	<u>555,633</u>	<u>1,237,582</u>	<u>40,295,940</u>
20. Unit Service Factor	<u>89.1</u>	<u>94.7</u>	<u>77.2</u>
21. Unit Avail Factor	<u>89.1</u>	<u>94.7</u>	<u>77.2</u>
22. Unit Cap Factor (MDC Net)	<u>87.2</u>	<u>93.9</u>	<u>69.7</u>
23. Unit Cap Factor (DER Net)	<u>88.0</u>	<u>94.8</u>	<u>70.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>8.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>4,768.9</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

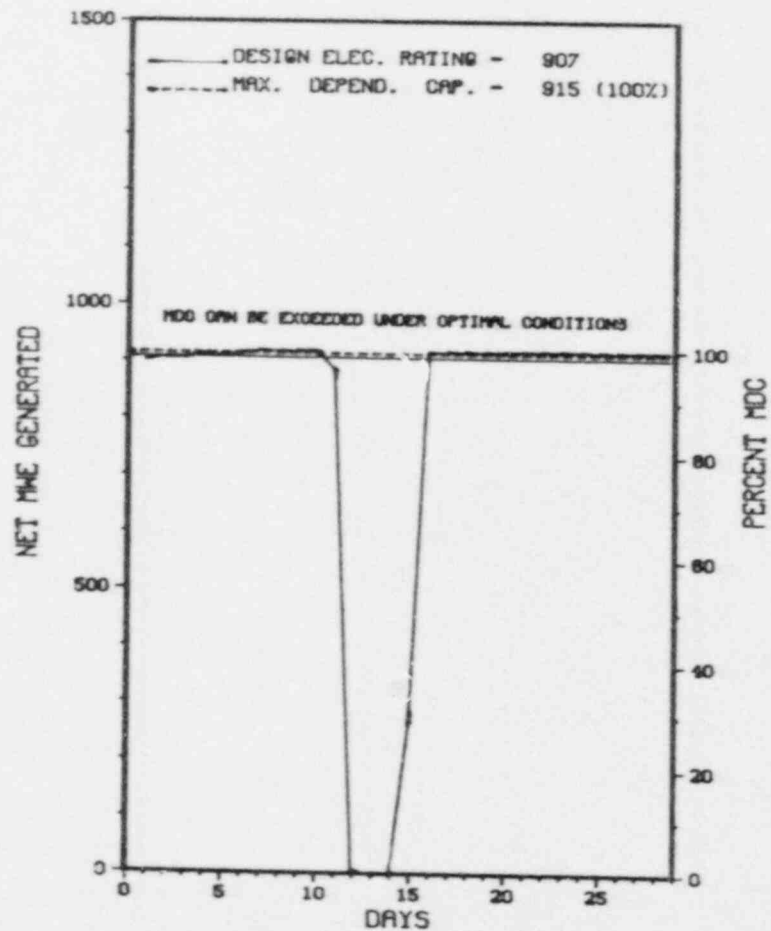
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* NORTH ANNA 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NORTH ANNA 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* NORTH ANNA 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action	Prevent Recurrence
8801	02/12/88	S	75.8	B	1				COMMENCED RAMPDOWN TO 0% POWER TO PERFORM STROKE TEST ON THE COMPONENT COOLING (CC) WATER VALVES TO THE REACTOR COOLANT PUMPS. UNIT RETURNED ON LINE FEBRUARY 15, 1988 AT 0507.	

\*\*\*\*\* NORTH ANNA 2 INCURRED 1 OUTAGE IN FEBRUARY FOR REASONS  
 \* SUMMARY \* STATED ABOVE.  
 \*\*\*\*\*

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)

\*\*\*\*\*  
\* NORTH ANNA 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....VIRGINIA  
COUNTY.....LOUISA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...40 MI NW OF  
RICHMOND, VA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JUNE 12, 1980  
DATE ELEC ENER 1ST GENER...AUGUST 25, 1980  
DATE COMMERCIAL OPERATE...DECEMBER 14, 1980  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE ANNA  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....VIRGINIA POWER  
CORPORATE ADDRESS.....P.O. BOX 26666  
RICHMOND, VIRGINIA 23261  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....M. BRANCH  
LICENSING PROJ MANAGER.....L. ENGLE  
DOCKET NUMBER.....50-339  
LICENSE & DATE ISSUANCE...NPF-7, AUGUST 21, 1980  
PUBLIC DOCUMENT ROOM.....ALDERMAN LIBRARY/MANUSCRIPTS DEPT.  
UNIV. OF VIRGINIA/CHARLOTTESVILLE VA 22901

I N S P E C T I O N    S T A T U S

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                    NORTH ANNA 2                    \*  
\*\*\*\*\*

OTHER ITEMS

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: DECEMBER 14-18, 1987 +

INSPECTION REPORT NO: 50-339/87-41 +

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE.			

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1. Docket: 50-269 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (Mwt): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 846

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>128,209.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>94,749.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>91,137.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,636,320</u>	<u>3,548,136</u>	<u>220,033,201</u>
18. Gross Elec Ener (MWH)	<u>564,244</u>	<u>1,225,869</u>	<u>76,333,526</u>
19. Net Elec Ener (MWH)	<u>538,290</u>	<u>1,171,188</u>	<u>72,382,293</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>71.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>71.1</u>
22. Unit Cap Factor (MDC Net)	<u>91.4</u>	<u>96.1</u>	<u>65.5*</u>
23. Unit Cap Factor (DER Net)	<u>87.2</u>	<u>91.7</u>	<u>63.7*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>13.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>13,514.7</u>

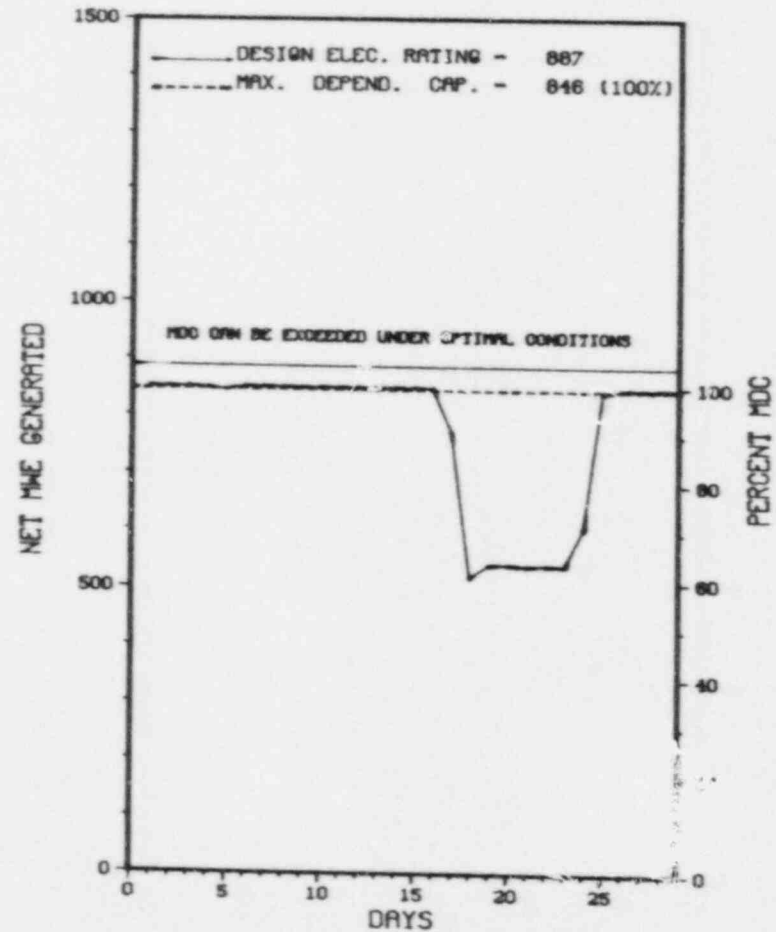
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X OCONEE 1 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* OCONEE 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1-P	02/05/88	F	0.0	A	5		WG	XXXXXX	DECREASED POWER TO MAINTAIN AUX STEAM WHEN THE AUX BOILER TRIPPED.
2-P	02/17/88	F	0.0	A	5		HH	PUMPXX	BROKEN OIL PUMP SHAFT ON THE '1B' MAIN FEEDWATER PUMP.
3-P	02/18/88	F	0.0	B	5		HH	PUMPXX	HOLDING POWER LEVEL TO CHECK HIGH SPEED TRIP ON '1A' MAIN FDW PUMP.
4-P	02/18/88	F	0.0	A	5		HH	PUMPXX	VIBRATION IN THE SHAFT OIL PUMP/JACKING SHAFT OF THE '1B' MAIN FDW PUMP.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 OCONEE 1 INCURRED 4 POWER REDUCTIONS IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0101)



\*\*\*\*\*  
\* OCONEE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....SOUTH CAROLINA  
COUNTY.....OCONEE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...30 MI W OF  
GREENVILLE, SC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...APRIL 19, 1973  
DATE ELEC ENER 1ST GENER...MAY 6, 1973  
DATE COMMERCIAL OPERATE...JULY 15, 1973  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE KEOWEE  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUKE POWER  
CORPORATE ADDRESS.....422 SOUTH CHURCH STREET  
CHARLOTTE, NORTH CAROLINA 28242  
CONTRACTOR  
ARCHITECT/ENGINEER.....DUKE & BECHTEL  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
CONSTRUCTOR.....DUKE POWER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....J. BRYANT  
LICENSING PROJ MANAGER.....H. PASTIS  
DOCKET NUMBER.....50-269  
LICENSE & DATE ISSUANCE...DPR-38, FEBRUARY 6, 1973  
PUBLIC DOCUMENT ROOM.....OCONEE COUNTY LIBRARY  
501 W. SOUTH BROAD ST.  
WALHALLA, SOUTH CAROLINA 29691

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION JANUARY 16 - FEBRUARY 16 (88-01): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, PHYSICAL SECURITY, ENGINEERED SAFEGUARDS FEATURES LINEUPS, REVIEW OF SAFETY SYSTEM FUNCTIONAL INSPECTION ITEMS AND MEETING WITH PUBLIC OFFICIALS. OF THE SEVEN AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 2-4 (88-02): THE AREA EXAMINED DURING THIS ROUTINE, ANNOUNCED INSPECTION WAS THE LICENSEE'S PROGRAM FOR SPECIAL NUCLEAR MATERIAL CONTROL AND ACCOUNTING. IN THE AREA INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TS 6.4.1, PROCEDURE TM/I/A/1800/6 ON FREEZE SEAL OF THE LINE TO THE BWST WAS NOT FOLLOWED RESULTING IN A 30,000 GAL. LEAK OF SLIGHTLY CONTAMINATED DORATED WATER.  
(8703 4)

OTHER ITEMS



1. Docket: 50-270 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (MWh): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 846

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (net MWe): 700

11. Reasons for Restrictions, If Any:  
HIGH FEEDWATER LEVEL IN THE 'B' STEAM GENERATOR.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>18,129.0</u>
13. Hours Reactor Critical	<u>53.4</u>	<u>797.4</u>	<u>89,494.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>52.1</u>	<u>796.1</u>	<u>88,089.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>110,328</u>	<u>1,736,808</u>	<u>209,376,909</u>
18. Gross Elec Ener (MWH)	<u>36,660</u>	<u>580,690</u>	<u>71,263,371</u>
19. Net Elec Ener (MWH)	<u>31,263</u>	<u>548,262</u>	<u>67,745,580</u>
20. Unit Service Factor	<u>7.5</u>	<u>55.3</u>	<u>74.6</u>
21. Unit Avail Factor	<u>7.5</u>	<u>55.3</u>	<u>74.6</u>
22. Unit Cap Factor (MDC Net)	<u>5.3</u>	<u>45.0</u>	<u>66.6*</u>
23. Unit Cap Factor (DER Net)	<u>5.1</u>	<u>42.9</u>	<u>64.7*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>11.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,963.0</u>

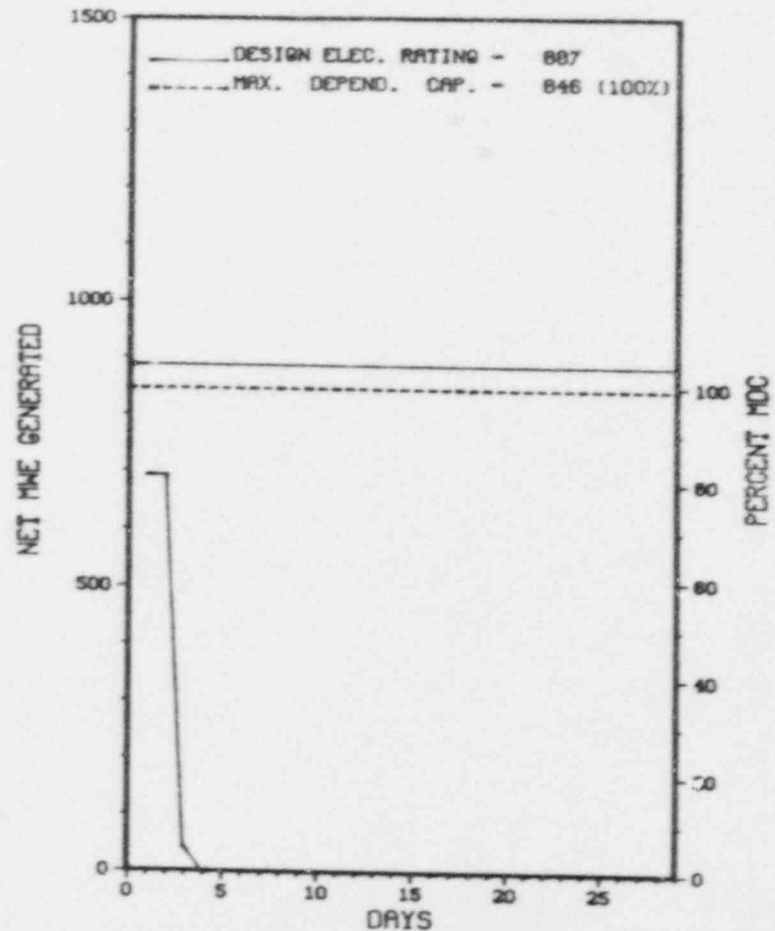
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: 04/14/88

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* OCONEE 2 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 2



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* OCONEE 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3-P	01/27/88	F	0.0	A	5		CH	HTEXCH	HIGH LEVEL 'B' STEAM GENERATOR.
1	02/03/88	S	643.9	C	1		RC	FUELXX	NORMAL REFUELING.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 OCONEE 2 BEGAN MONTH AT A SELF-IMPOSED RESTRICTED POWER LEVEL.  
 SUBSEQUENTLY SHUTDOWN FOR SCHEDULED REFUELING OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Fail	1-Manual	Exhibit F & H
S-Sched	B-Maint or	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
X OCONEE 2 X  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....SOUTH CAROLINA  
COUNTY.....OCONEE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...30 MI W OF  
GREENVILLE, SC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...NOVEMBER 11, 1973  
DATE ELEC ENER 1ST GENER...DECEMBER 5, 1973  
DATE COMMERCIAL OPERATE...SEPTEMBER 9, 1974  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE KEDWEE  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUKE POWER  
CORPORATE ADDRESS.....422 SOUTH CHURCH STREET  
CHARLOTTE, NORTH CAROLINA 28242

CONTRACTOR  
ARCHITECT/ENGINEER.....DUKE & BECHTEL  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
CONSTRUCTOR.....DUKE POWER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....J. BRYANT  
LICENSING PROJ MANAGER.....H. PASTIS  
DOCKET NUMBER.....50-270  
LICENSE & DATE ISSUANCE...DPR-47, OCTOBER 6, 1973  
PUBLIC DOCUMENT ROOM.....OCONEE COUNTY LIBRARY  
501 W. SOUTH BROAD ST.  
WALHALLA, SOUTH CAROLINA 29691

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION JANUARY 16 - FEBRUARY 16 (88-01): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, PHYSICAL SECURITY, ENGINEERED SAFEGUARDS FEATURES LINEUPS, REVIEW OF SAFETY SYSTEM FUNCTIONAL INSPECTION ITEMS AND MEETING WITH PUBLIC OFFICIALS. OF THE SEVEN AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 2-4 (88-02): THE AREA EXAMINED DURING THIS ROUTINE, ANNOUNCED INSPECTION WAS THE LICENSEE'S PROGRAM FOR SPECIAL NUCLEAR MATERIAL CONTROL AND ACCOUNTING. IN THE AREA INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:



1. Docket: 50-287                    O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (MWT):                    2568

5. Nameplate Rating (Gross MWe):                    1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe):                    887

7. Maximum Dependable Capacity (Gross MWe):                    899

8. Maximum Dependable Capacity (Net MWe):                    846

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>115,776.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>84,789.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>83,425.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,801,512</u>	<u>3,648,624</u>	<u>204,548,085</u>
18. Gross Elec Ener (MWH)	<u>618,794</u>	<u>1,261,632</u>	<u>70,472,177</u>
19. Net Elec Ener (MWH)	<u>594,063</u>	<u>1,210,113</u>	<u>67,138,743</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>72.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>72.1</u>
22. Unit Cap Factor (MDC Net)	<u>100.9</u>	<u>99.3</u>	<u>67.3*</u>
23. Unit Cap Factor (DER Net)	<u>96.2</u>	<u>94.7</u>	<u>65.5*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>13.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>12,625.3</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

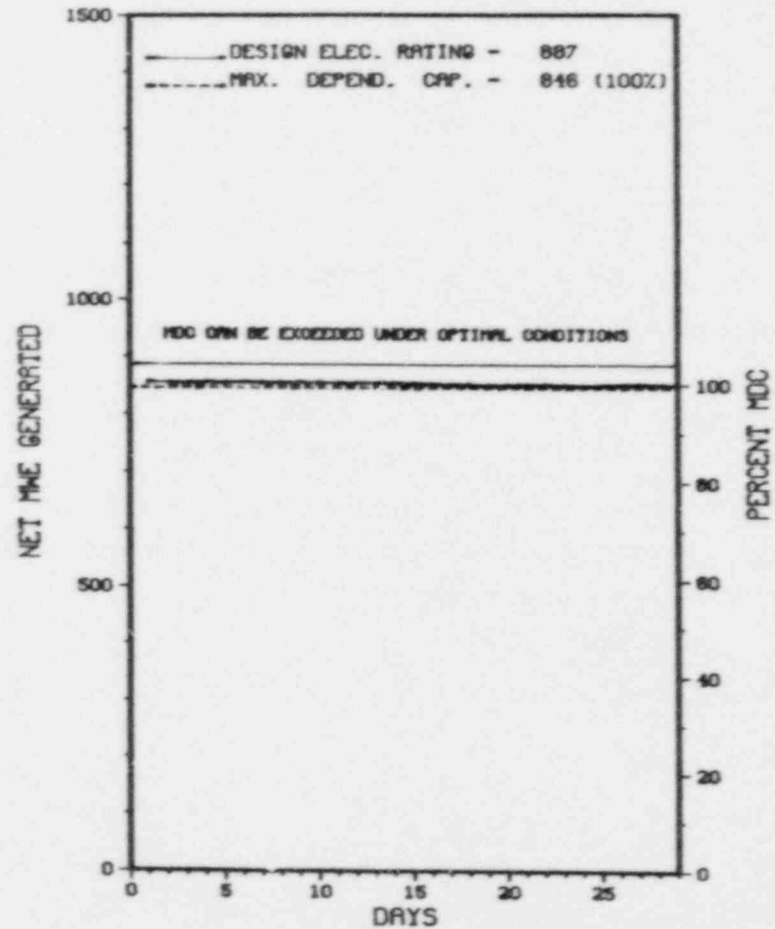
REFUELING - AUGUST 3, 1988 - 7 WEEKS DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                    OCONEE 3                    \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 3



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* OCONEE 3 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
OCONEE 3 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR  
SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LFP) File (NUREG-0161)



\*\*\*\*\*  
\* OCONEE 3 \*  
\*\*\*\*\*

F A C I L I T Y   D A T A

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....SOUTH CAROLINA  
COUNTY.....OCONEE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...33 MI W OF  
GREENVILLE, SC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...SEPTEMBER 5, 1974  
DATE ELEC ENER 1ST GENER...SEPTEMBER 18, 1974  
DATE COMMERCIAL OPERATE...DECEMBER 16, 1974  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE KEOWEE  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....DUKE POWER  
CORPORATE ADDRESS.....422 SOUTH CHURCH STREET  
CHARLOTTE, NORTH CAROLINA 28242  
CONTRACTOR  
ARCHITECT/ENGINEER.....DUKE & BECHTEL  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
CONSTRUCTOR.....DUKE POWER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....J. BRYANT  
LICENSING PROJ MANAGER.....H. PASTIS  
DOCKET NUMBER.....50-287  
LICENSE & DATE ISSUANCE...DPR-55, JULY 19, 1974  
PUBLIC DOCUMENT ROOM.....OCONEE COUNTY LIBRARY  
501 W. SOUTH BROAD ST.  
WALHALLA, SOUTH CAROLINA 29691

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

+ INSPECTION JANUARY 16 - FEBRUARY 16 (88-01): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, PHYSICAL SECURITY, ENGINEERED SAFEGUARDS FEATURES LINEUPS, REVIEW OF SAFETY SYSTEM FUNCTIONAL INSPECTION ITEMS AND MEETING WITH PUBLIC OFFICIALS. OF THE SEVEN AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 2-4 (88-02): THE AREA EXAMINED DURING THIS ROUTINE, ANNOUNCED INSPECTION WAS THE LICENSEE'S PROGRAM FOR SPECIAL NUCLEAR MATERIAL CONTROL AND ACCOUNTING. IN THE AREA INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:



1. Docket: 50-219 OPERATING STATUS
2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0
3. Utility Contact: JOHN H. SEDAR JR. (609) 971-4698
4. Licensed Thermal Power (Mwt): 1930
5. Nameplate Rating (Gross MWe): 687.5 X .98 = 674
6. Design Electrical Rating (Net MWe): 650
7. Maximum Dependable Capacity (Gross MWe): 650
8. Maximum Dependable Capacity (Net MWe): 620
9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE
10. Power Level To Which Restricted, If Any (Net MWe):
11. Reasons for Restrictions, If Any:           
NONE

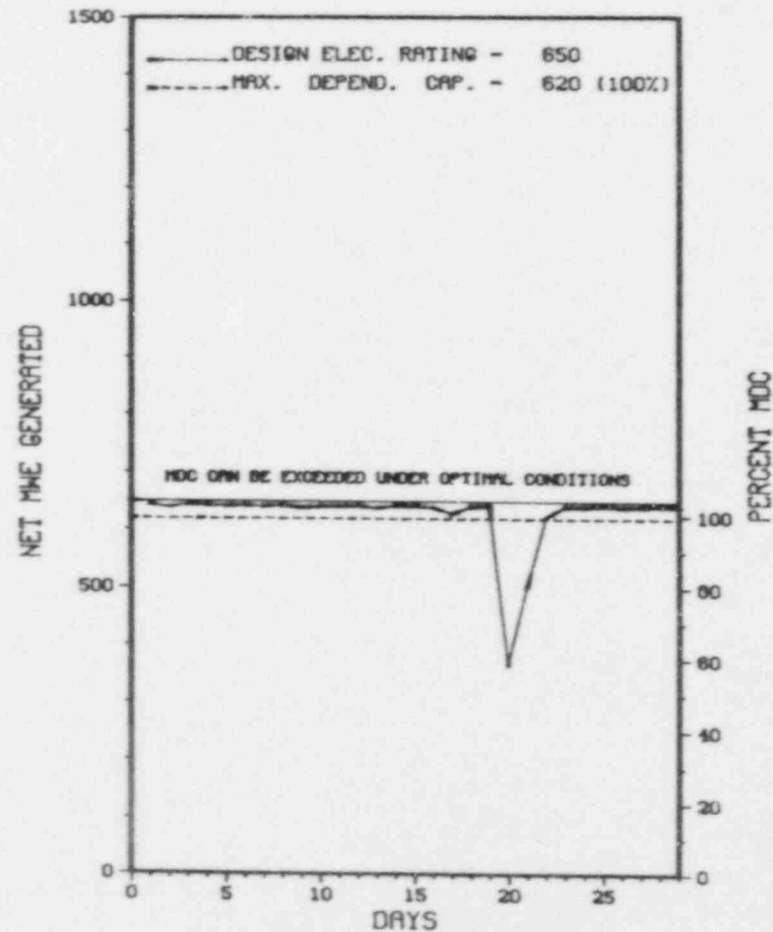
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>159,432.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>102,591.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,208.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>99,231.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,761.4</u>
17. Gross Therm Ener (MWH)	<u>1,310,000</u>	<u>2,739,000</u>	<u>165,503,408</u>
18. Gross Elec Ener (MWH)	<u>452,000</u>	<u>945,070</u>	<u>55,863,424</u>
19. Net Elec Ener (MWH)	<u>435,786</u>	<u>911,349</u>	<u>53,634,237</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>62.2</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>63.3</u>
22. Unit Cap Factor (MDL Net)	<u>101.0</u>	<u>102.1</u>	<u>54.3*</u>
23. Unit Cap Factor (DER Net)	<u>96.3</u>	<u>97.4</u>	<u>51.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>14,446.5</u>
26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* OYSTER CREEK 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OYSTER CREEK 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

PAGE 2-264

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* OYSTER CREEK 1 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
OYSTER CREEK OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& license Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* OYSTER CREEK 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW JERSEY  
COUNTY.....OCEAN  
DIST AND DIRECTION FROM  
NEAREST POPULATION (TR...9 MI S OF  
TOMS RIVER, NJ  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...MAY 3, 1969  
DATE ELEC ENER 1ST GENER...SEPTEMBER 23, 1969  
DATE COMMERCIAL OPERATE...DECEMBER 1, 1969  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...BARNEGAT BAY  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....GPU NUCLEAR CORPORATION  
CORPORATE ADDRESS.....100 INTERPACE PARKWAY  
PARSIPPANY, NEW JERSEY 07054  
CONTRACTOR  
ARCHITECT/ENGINEER.....BURNS & ROE  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BURNS & ROE  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....J. WECHSELBERGR  
LICENSING PROJ MANAGER....A. DROMERICK  
DOCKET NUMBER.....50-219  
LICENSE & DATE ISSUANCE...DPR-16, AUGUST 1, 1969  
PUBLIC DOCUMENT ROOM.....OCEAN COUNTY LIBRARY  
101 WASHINGTON STREET  
TOMS RIVER, NEW JERSEY 08753

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

TS 6.8.1 REQUIRES THAT WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED. STATION PROCEDURE 108 EQUIPMENT CONTROL, STEP 5.2.17 STATES, THE RED/WHITE IS A MECHANICAL TAG AND IS TO BE USED ON MECHANICAL EQUIPMENT SUCH AS VALVES, MECHANICAL CONTROLS, ETC., WHERE THE OPERATION OF SUCH EQUIPMENT WOULD CREATE A CONDITION UA RED/WHITE TAG SHALL BE OPERATED FOR ANY REASON WHATEVER. CONTRARY TO THE ABOVE DURING A PLANT WALKDOWN PERFORMED ON NOVEMBER 28, 1987, TWO CONTAINMENT SPRAY PUMP SUCTION GAUGE ISOLATION VALVES WHICH WERE TAGGED SHUT HAD THEIR RED/WHITE TABS REMOVED AND WERE FOUND TO BE OPEN. STATION PROCEDURE 310, CONTAINMENT SPRAY SYSTEM OPERATION, PROVIDES DETAINED INSTRUCTIONS FOR THE OPERATION OF THE CONTAINMENT SPRAY SYSTEM. THIS INCLUDES A VALVE LINE UP OF THE SYSTEM IN ACCORDANCE WITH VALVE CHECK OFF LISTS FIGURE 310-1. THIS VALVE CHECK OFF LIST PRESCRIBES HEAT EXCHANGER 1-1 AND 1-2 PRESSURE INDICATION GAUGE ISOLATION VALVES V-3-506, 507, 513, AND 514 BE OPEN. CONTRARY TO THE ABOVE, DURING A PLANT WALKDOWN PERFORMED ON NOVEMBER 28, 1987, THESE VALVES WERE FOUND TO BE SHUT.  
(8704 4)

OTHER ITEMS

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X                    OYSTER CREEK 1                    X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NO INPUT PROVIDED.  
=====

1. Docket: 50-255                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: G. C. PACKARD (616) 764-8913

4. Licensed Thermal Power (Mwt):                      2530

5. Nameplate Rating (Gross MWe):                      955 X 0.85 = 812

6. Design Electrical Rating (Net MWe):                      805

7. Maximum Dependable Capacity (Gross MWe):                      770

8. Maximum Dependable Capacity (Net MWe):                      730

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>141,999.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>830.2</u>	<u>74,847.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>800.8</u>	<u>71,067.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,484,904</u>	<u>1,689,480</u>	<u>148,877,397</u>
18. Gross Elec Ener (MWH)	<u>480,525</u>	<u>546,165</u>	<u>46,456,685</u>
19. Net Elec Ener (MWH)	<u>453,316</u>	<u>514,513</u>	<u>43,731,547</u>
20. Unit Service Factor	<u>100.0</u>	<u>55.6</u>	<u>50.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>55.6</u>	<u>50.0</u>
22. Unit Cap Factor (MDC Net)	<u>89.2</u>	<u>48.9</u>	<u>42.2</u>
23. Unit Cap Factor (DER Net)	<u>80.9</u>	<u>44.4</u>	<u>38.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>44.4</u>	<u>56.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>639.2</u>	<u>25,898.7</u>

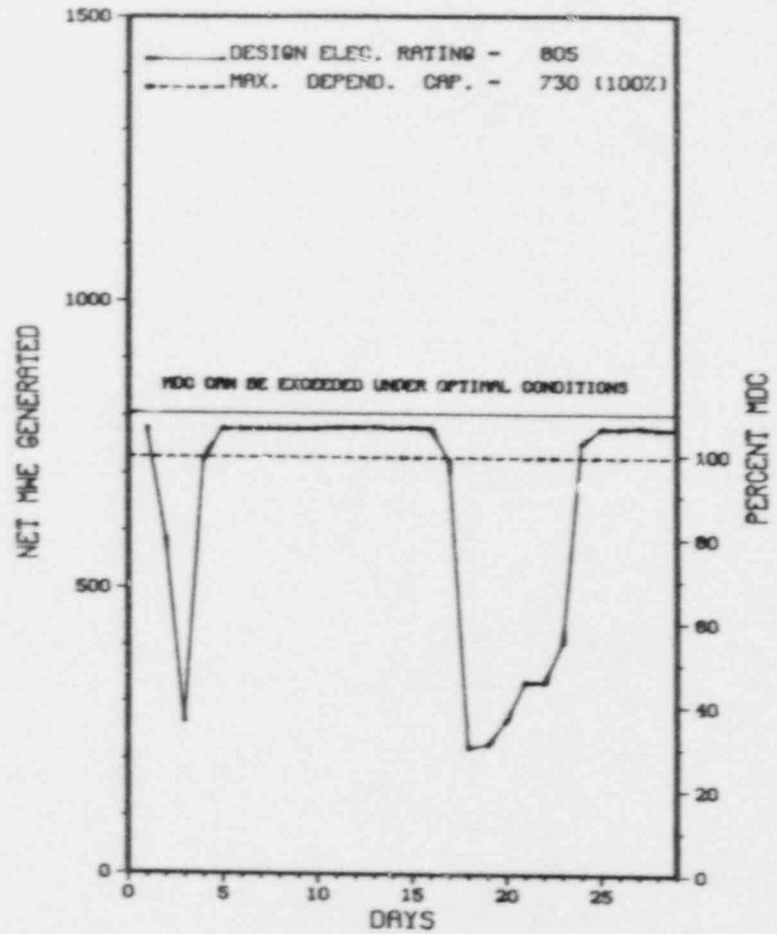
26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

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\*                      PALISADES                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALISADES



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 \* PALISADES \*  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
16	02/02/88	F	0.0	A	5				POWER REDUCTION DUE TO STEAM LEAK ON VENT LINE FROM MSR-E-9C.
17	02/17/88	S	0.0	H	5				POWER REDUCTION DUE TO BORIC ACID CHEMISTRY SOAK TO STEAM GENERATORS.

XXXXXXXXXXXX PALISADES INCURRED 2 POWER REDUCTIONS IN FEBRUARY FOR REASONS  
 \* SUMMARY \* STATED ABOVE.  
 XXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



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\* PALISADES \*  
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F A C I L I T Y   D A T A

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MICHIGAN  
COUNTY.....VANBUREN  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI S OF  
SOUTH HAVEN, MI  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 24, 1971  
DATE ELEC ENER 1ST GENER...DECEMBER 31, 1971  
DATE COMMERCIAL OPERATE...DECEMBER 31, 1971  
CONDENSER COOLING METHOD...COOLING TOWERS  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CONSUMERS POWER  
CORPORATE ADDRESS.....212 WEST MICHIGAN AVENUE  
JACKSON, MICHIGAN 49201  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....E. SWANSON  
LICENSING PROJ MANAGER.....J. HAMBACH  
DOCKET NUMBER.....50-255  
LICENSE & DATE ISSUANCE...DPR-20, OCTOBER 16, 1972  
PUBLIC DOCUMENT ROOM.....VAN ZOEREN LIBRARY  
HOPE COLLEGE  
HOLLAND, MICHIGAN 49423

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON DECEMBER 2 THROUGH DECEMBER 31 (87032): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS AND REGION III STAFF OF FOLLOWUP OF PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; OUTAGE ACTIVITIES; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; PART 21 REPORTS; AND REPORTABLE EVENTS. OF THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 5-7, 12-14, 21, 22 (88004): UNANNOUNCED SAFETY INSPECTION OF LICENSEE ACTIONS IN RESPONSE TO IE BULLETINS (92703); REVIEW OF INSERVICE INSPECTION (ISI) PROGRAM (73051) AND PROCEDURES (73052); OBSERVATIONS OF ISI WORK AND WORK ACTIVITIES (73753); ISI DATA REVIEW AND EVALUATION (73755); AND OF THE STEAM GENERATOR SLUDGE LANCING (73051, 73052, 73753). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. THE ACTIVITIES INSPECTED APPEARED TO MEET THE SAFETY OBJECTIVES OF THE APPLICABLE REGULATORY REQUIREMENTS.

INSPECTION ON JANUARY 12-15, 1988 (88006): ROUTINE, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM DURING A MAINTENANCE OUTAGE INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS CHANGES IN ORGANIZATION, PERSONNEL, FACILITIES, EQUIPMENT, AND PROCEDURES; PLANNING AND PREPARATION; TRAINING AND QUALIFICATIONS OF NEW PERSONNEL; INTERNAL AND EXTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION; THE ALARA PROGRAM; AUDITS AND APPRAISALS; AND OPEN ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 1 THROUGH FEBRUARY 3 (88005): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS AND REGION III STAFF OF FOLLOWUP OF PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; OUTAGE ACTIVITIES; PHYSICAL SECURITY;  
PAGE 2-270

INSPECTION SUMMARY

CONTAINMENT INTEGRITY VERIFICATION. OF THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON NOVEMBER 4-9 (87024): SPECIAL AUGMENTED INSPECTION TEAM (AIT) INSPECTION CONDUCTED IN RESPONSE TO THE MAIN STEAM ISOLATION VALVE (MSIV) CLOSURE FAILURES OF OCTOBER 29, 1987, AND NOVEMBER 3, 1987, FOR PERRY UNIT 1 AND RELATED ACTIVITIES. THE REVIEW INCLUDED ROOT CAUSE DETERMINATION, SAFETY SIGNIFICANCE, MAINTENANCE HISTORY, SIMILAR PREVIOUS OCCURRENCES, AND BROADER INDUSTRY IMPLICATIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED; HOWEVER, THE LICENSEE HAS COMMITTED TO ADDITIONAL AND EXPANDED SURVEILLANCES OF THE MSIV'S AND CONTINUED INVESTIGATION EFFORTS TO ATTEMPT TO PINPOINT THE FAILURE MECHANISM INVOLVED IN THE SLOW CLOSURE TIME.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

MAINTENANCE OUTAGE COMPLETED AND UNIT WAS RETURNED TO POWER ON 1-22-88. ON 2-2-88, POWER WAS REDUCED TO REPAIR ON EXCESS STEAM LINE. APPROXIMATELY ONE WEEK LATER, THE UNIT WAS RETURNED TO FULL POWER. ON 2-17-88, POWER WAS AGAIN REDUCED IN ORDER TO ADD BORIC ACID TO STEAM GENERATORS. RETURNED TO FULL POWER ON 2-24-88.

LAST IE SITE INSPECTION DATE: 01/15/88

INSPECTION REPORT NO: 88006

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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1. Docket: 50-528 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. L. HULL (602) 393-2679

4. Licensed Thermal Power (Mwt): 3800

5. Nameplate Rating (Gross MWe): 1402

6. Design Electrical Rating (Net MWe): 1270

7. Maximum Dependable Capacity (Gross MWe): 1303

8. Maximum Dependable Capacity (Net MWe): 1221

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>18,312.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>9,977.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-line	<u>.0</u>	<u>.0</u>	<u>9,717.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>0</u>	<u>35,032,837</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>12,143,300</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>11,328,114</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>53.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>53.1</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>50.7</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>48.7</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>35.8</u>
25. Forced Outage Hours	<u>696.0</u>	<u>1,158.1</u>	<u>5,429.8</u>

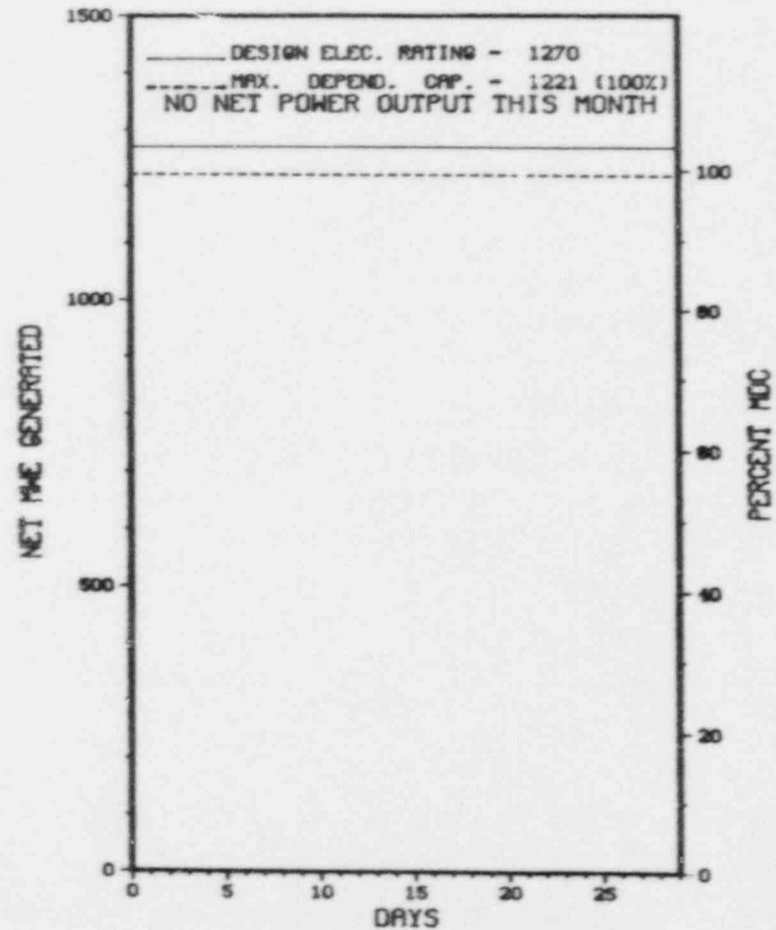
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: 03/05/88

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X PALO VERDE 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* PALO VERDE 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
11	01/12/88	F	696.0	A	4				UNIT SHUTDOWN TO REPAIR AN INOPERABLE CONTROL ELEMENT ASSEMBLY.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
PALO VERDE 1 REMAINED SHUTDOWN IN FEBRUARY TO REPAIR AN INOPERABLE CONTROL ELEMENT ASSEMBLY.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* PALO VERDE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ARIZONA  
COUNTY.....MARICOPA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...36 MI W OF  
PHOENIX, AZ  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 25, 1985  
DATE ELEC ENER 1ST GENER...JUNE 10, 1985  
DATE COMMERCIAL OPERATE...JANUARY 28, 1986  
CONDENSER COOLING METHOD...TREATED SEWAGE  
CONDENSER COOLING WATER...SEWAGE TREATMENT  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....ARIZONA PUBLIC SERVICE  
CORPORATE ADDRESS.....P.O. BOX 21666  
PHOENIX, ARIZONA 85036  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....T. POLICH  
LICENSING PROJ MANAGER.....E. LICITRA  
DOCKET NUMBER.....50-528  
LICENSE & DATE ISSUANCE...NPF-41, JUNE 1, 1985  
PUBLIC DOCUMENT ROOM.....MS STEFANIE MORITZ  
DOCUMENTS LIBRARIAN  
PHOENIX PUBLIC LIBRARY  
12 EAST MCDOWELL ROAD  
PHOENIX, ARIZONA 85004

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

- + INSPECTION ON OCTOBER 1, 1986 - OCTOBER 31, 1987 (REPORT NO. 50-528/87-32) YEARLY ASSESSMENT OF LICENSEE PERFORMANCE. REPORT SENT FEBRUARY 2, 1988.
  - + INSPECTION ON NOVEMBER 2, 1987 - JANUARY 29, 1988 (REPORT NO. 50-528/87-37) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
  - + INSPECTION ON JANUARY 4 - FEBRUARY 12, 1988 (REPORT NO. 50-528/88-01) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
  - + INSPECTION ON JANUARY 17 - MARCH 5, 1988 (REPORT NO. 50-528/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
  - + INSPECTION ON JANUARY 12-15, 1988 (REPORT NO. 50-528/87-05) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION INCLUDING: IN-OFFICE REVIEW OF LICENSEE REPORTS, LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, TOUR OF THE FACILITY, AND REVIEW OF RADIOACTIVE MATERIAL PARTICLE CONTROL. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.
- RESULTS: IN FIVE OF THE SIX AREAS ADDRESSED, NO VIOLATIONS WERE IDENTIFIED. IN ONE AREA, A VIOLATION OF 10 CFR 19.11 WAS IDENTIFIED. AS A RESULT OF THIS INSPECTION EFFORT, NRC BECAME AWARE OF A SIGNIFICANT RADIOLOGICAL PROBLEM ASSOCIATED WITH DETERIORATION OF STELLITE WEAR SURFACES ON REACTOR COOLANT PUMP IMPELLERS. IN ADDITION, THE LICENSEE'S SURVEYS AND EVALUATION TO ESTABLISH PERSONNEL DOSIMETRY PRACTICES FOR RADIOACTIVE WASTE SORTING WERE CALLED INTO QUESTION.

Report Period FEB 1988

INSPECTION STATUS - (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X PALO VERDE 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

INSPECTION SUMMARY

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-528/88-04) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. THE INSPECTION INCLUDED FOLLOWUP ON PREVIOUS INSPECTION FINDINGS AND EXAMINATIONS OF CHANGES TO THE EMERGENCY PLAN AND PROCEDURES, EMERGENCY FACILITIES AND EQUIPMENT, ORGANIZATION AND MANAGEMENT CONTROL OF THE EMERGENCY PLANNING PROGRAM, TRAINING OF EMERGENCY RESPONSE PERSONNEL, AND INDEPENDENT REVIEWS/AUDITS OF THE EMERGENCY PREPAREDNESS PROGRAM.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-528/88-05) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, ONSITE FOLLOWUP OF REPORTS OF NONROUTINE EVENTS, INOFFICE REVIEW OF REPORTS OF NONROUTINE EVENTS AND PLANT TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-528/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 27-29, 1988 (REPORT NO. 50-528/88-07) AREAS INSPECTED: SPECIAL ANNOUNCED INSPECTION TO FOLLOWUP ON LER 50-528/87-25, WHICH DESCRIBED THE CIRCUMSTANCES SURROUNDING MODIFICATIONS MADE TO THE STEAM DRIVEN AUXILIARY FEEDWATER PUMPS, WHICH RENDERED THE PUMPS INOPERABLE.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 23 - MARCH 3, 1988 (REPORT NO. 50-528/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 22 - MARCH 3, 1988 (REPORT NO. 50-528/88-09) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 6 - APRIL 2, 1988 (REPORT NO. 50-528/88-10) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ A CONTROL ROD BECAME STUCK DURING ROD TESTING WHILE RECOVERING FROM THE PRESENT REFUELING OUTAGE. THE CAUSE WAS DETERMINED TO BE A BALL BEARING WHICH WAS INADVERTENTLY INTRODUCED INTO THE UPPER GUIDE STRUCTURE OF THE REACTOR VESSEL INTERNALS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

+ AN ENFORCEMENT CONFERENCE AND MANAGEMENT MEETING WAS HELD ON FEBRUARY 29, 1988.

OTHER ITEMS

PLANT STATUS:

+ THE PLANT WENT BACK ON LINE FOLLOWING A REFUELING OUTAGE ON MARCH 10, 1988.

LAST IE SITE INSPECTION DATE: 03/06/88 - 04/02/88+

INSPECTION REPORT NO: 50-528/88-10+

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-28-10	12-17-87	01-15-88	TWO PLANT VENT WEEKLY SAMPLES NOT SAVED FOR SR-89/90 ANALYSIS - PERSONNEL ERROR
87-02-50	11-11-87	12-09-87	INADVERTENT ENTRY OF UNAUTHORIZED PERSON WITH ANOTHER AUTHORIZED PERSON INTO CAS (SAFEGUARD REPORT)

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1. Docket: 50-529 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J. L. HULL (602) 393-2679

4. Licensed Thermal Power (Mwt): 3800

5. Nameplate Rating (Gross MWe): 1463

6. Design Electrical Rating (Net MWe): 1270

7. Maximum Dependable Capacity (Gross MWe): 1303

8. Maximum Dependable Capacity (Net MWe): 1221

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>12,696.0</u>
13. Hours Reactor Critical	<u>458.0</u>	<u>1,202.0</u>	<u>10,477.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>458.0</u>	<u>1,202.0</u>	<u>10,328.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,711,979</u>	<u>4,508,600</u>	<u>37,715,767</u>
18. Gross Elec Ener (MWH)	<u>603,800</u>	<u>1,588,100</u>	<u>13,249,370</u>
19. Net Elec Ener (MWH)	<u>560,018</u>	<u>1,487,775</u>	<u>12,424,657</u>
20. Unit Service Factor	<u>65.8</u>	<u>83.5</u>	<u>81.4</u>
21. Unit Avail Factor	<u>65.8</u>	<u>83.5</u>	<u>81.4</u>
22. Unit Cap Factor (MDC Net)	<u>65.9</u>	<u>84.6</u>	<u>80.1</u>
23. Unit Cap Factor (DER Net)	<u>63.4</u>	<u>81.4</u>	<u>77.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>5.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>637.1</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

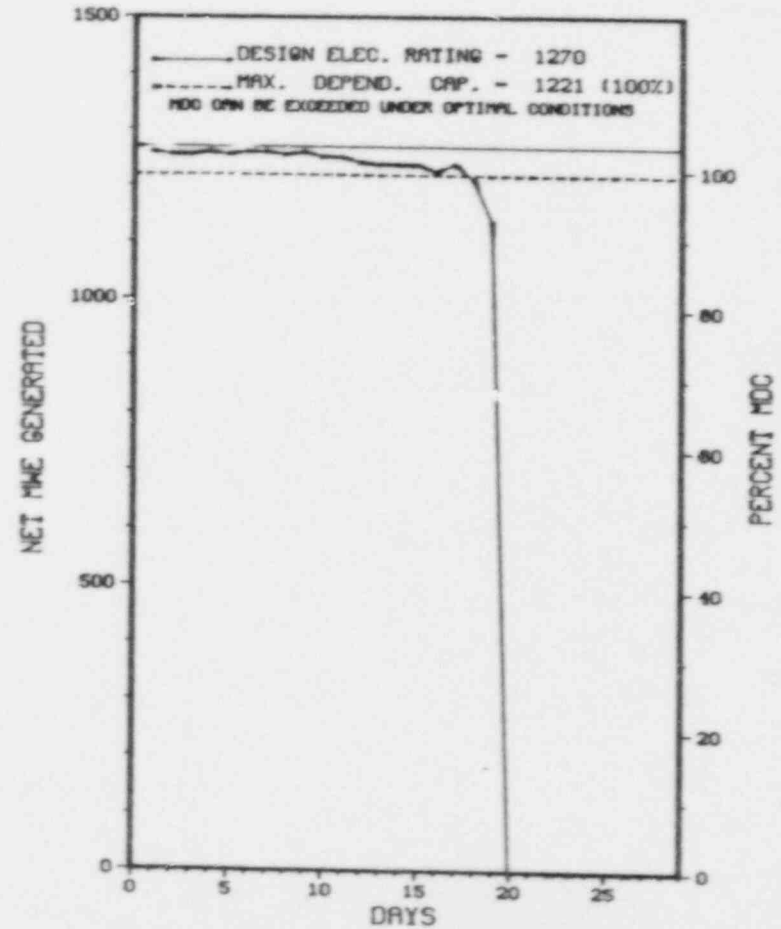
NONE

27. If Currently Shutdown Estimated Startup Date: 05/15/88

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\* PALO VERDE 2 \*  
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AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* PALO VERDE 2 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
2	02/20/88	S	238.0	C	1			UNIT SHUTDOWN DUE TO REFUELING OUTAGE.

\*\*\*\*\* PALO VERDE 2 BEGAN SCHEDULED REFUELING OUTAGE IN FEBRUARY.  
\* SUMMARY \*  
\*\*\*\*\*

Type	Reason	Method	Syst. & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	G-Oper Error	3-Auto Scram	Preparation of
	C-Refueling	4-Continued	Data Entry Sheet
	H-Other	5-Reduced Load	Licensee Event Report
	D-Regulatory Restriction	9-Other	(LER) File (NUREG-0161)
	E-Operator Training & License Examination		

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\* PALO VERDE 2 \*  
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FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ARIZONA  
COUNTY.....MARICOPA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...36 MI W OF  
PHOENIX, AZ  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...APRIL 18, 1986  
DATE ELEC ENER 1ST GENER...MAY 20, 1986  
DATE COMMERCIAL OPERATE...SEPTEMBER 19, 1986  
CONDENSER COOLING METHOD...COOLING TOWERS  
CONDENSER COOLING WATER...SEWAGE TREATMENT  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....ARIZONA PUBLIC SERVICE  
CORPORATE ADDRESS.....P.O. BOX 21666  
PHOENIX, ARIZONA 85036  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....T. POLICH  
LICENSING PROJ MANAGER.....E. LICITRA  
DOCKET NUMBER.....50-529  
LICENSE & DATE ISSUANCE...NPF-51, APRIL 24, 1986  
PUBLIC DOCUMENT ROOM.....MS STEFANIE MORITZ  
DOCUMENTS LIBRARIAN  
PHOENIX PUBLIC LIBRARY  
12 EAST MCDOWELL ROAD  
PHOENIX, ARIZONA 85004

INSPECTION SUMMARY

I N S P E C T I O N   S T A T U S

- + INSPECTION ON OCTOBER 1, 1986 - OCTOBER 31, 1987 (REPORT NO. 50-529/87-32) YEARLY SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE. REPORT ISSUED FEBRUARY 2, 1988.
- + INSPECTION ON NOVEMBER 2-6, 1987 (REPORT NO. 50-529/87-36) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON JANUARY 4 - FEBRUARY 12, 1988 (REPORT NO. 50-529/88-01) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON JANUARY 17 - MARCH 5, 1988 (REPORT NO. 50-529/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON JANUARY 12-15, 1988 (REPORT NO. 50-529/88-03) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION INCLUDING: IN-OFFICE REVIEW OF LICENSEE REPORTS, LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, TOUR OF THE FACILITY, AND REVIEW OF RADIOACTIVE MATERIAL PARTICLE CONTROL. DURING THIS INSPECTION; VARIOUS INSPECTION PROCEDURES WERE UTILIZED.  
RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.
- + INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-529/88-04) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. THE INSPECTION INCLUDED FOLLOWUP ON PREVIOUS INSPECTION FINDINGS AND EXAMINATIONS OF CHANGES TO THE

INSPECTION SUMMARY

EMERGENCY PLAN AND PROCEDURES, EMERGENCY FACILITIES AND EQUIPMENT, ORGANIZATION AND MANAGEMENT CONTROL OF THE EMERGENCY PLANNING PROGRAM, TRAINING OF EMERGENCY RESPONSE PERSONNEL, AND INDEPENDENT REVIEWS/AUDITS OF THE EMERGENCY PREPAREDNESS PROGRAM. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-529/88-05) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, ONSITE FOLLOWUP OF REPORTS OF NONROUTINE EVENTS, INOFFICE REVIEW OF REPORTS OF NONROUTINE EVENTS AND PLANT TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-529/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 27-29, 1988 (REPORT NO. 50-529/88-07) AREAS INSPECTED: SPECIAL ANNOUNCED INSPECTION TO FOLLOWUP ON LER 50-528/87-25, WHICH DESCRIBED THE CIRCUMSTANCES SURROUNDING MODIFICATIONS MADE TO THE STEAM DRIVEN AUXILIARY FEEDWATER PUMPS, WHICH RENDERED THE PUMPS INOPERABLE.

RESULTS: OF THE AREAS INSPECTED, FOUR VIOLATIONS OF NRC REQUIREMENTS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 23 - MARCH 3, 1988 (REPORT NO. 50-529/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 22 - MARCH 3, 1988 (REPORT NO. 50-529/88-09) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 6 - APRIL 2, 1988 (REPORT NO. 50-529/88-10) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

+ NONE

MANAGERIAL ITEMS:

AN ORDER WAS ISSUED NOVEMBER 19, 1987, MODIFYING THE UNIT 2 LICENSE. THIS ORDER CONFIRMED COMMITMENTS BY THE LICENSEE TO PROVIDE VIBRATION MONITORING FOR REACTOR COOLANT PUMP SHAFTS.

+ AN ENFORCEMENT CONFERENCE AND MANAGEMENT MEETING AS HELD ON FEBRUARY 29, 1988.



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1. Docket: 50-530 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: J.M. COLVILLE 602-393-2679

4. Licensed Thermal Power (MWT): 3800

5. Nameplate Rating (Gross MWe): 1403

6. Design Electrical Rating (Net MWe): 1270

7. Maximum Dependable Capacity (Gross MWe): 1303

8. Maximum Dependable Capacity (Net MWe): 1221

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe):

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,272.0</u>	<u>1,272.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,272.0</u>	<u>1,272.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,272.0</u>	<u>1,272.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,603,103</u>	<u>4,776,216</u>	<u>4,776,216</u>
18. Gross Elec Ener (MWH)	<u>921,700</u>	<u>1,686,600</u>	<u>1,686,600</u>
19. Net Elec Ener (MWH)	<u>872,225</u>	<u>1,596,758</u>	<u>1,596,758</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
22. Unit Cap Factor (MDC Net)	<u>102.6</u>	<u>102.8</u>	<u>102.8</u>
23. Unit Cap Factor (DER Net)	<u>98.7</u>	<u>98.8</u>	<u>98.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>.0</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

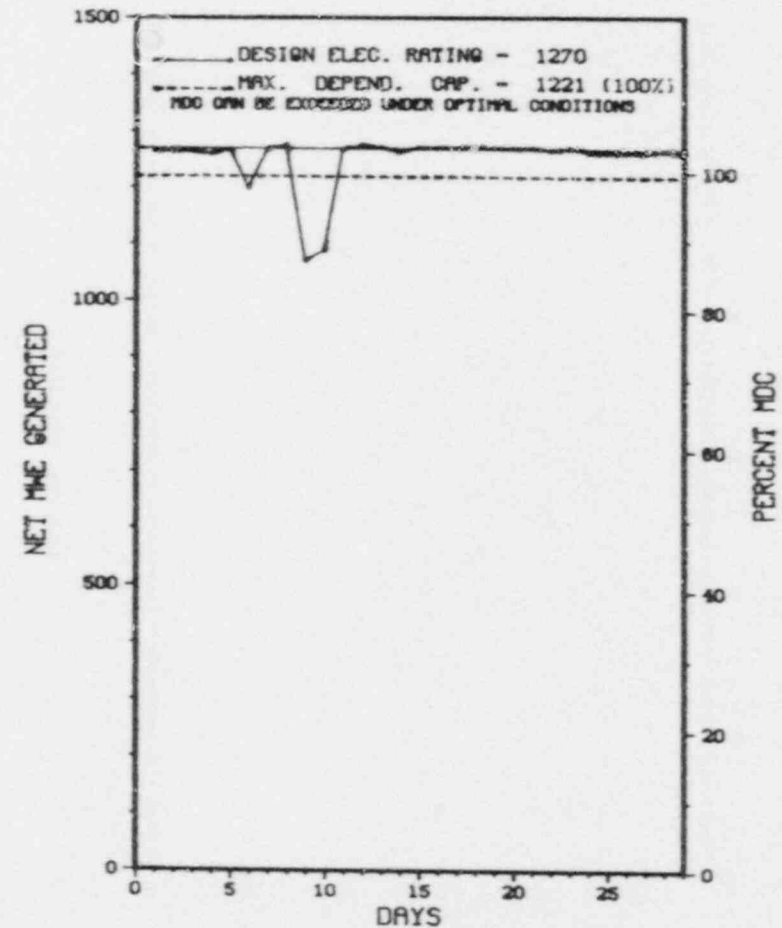
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

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\* PALO VERDE 3 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 3



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* PALO VERDE 3 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/09/88	F	0.0	A	5		SJ	P	POWER REDUCTION TO 70% IN ORDER TO REPAIR MAIN FEED WATER PUMP LEAK.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
PALO VERDE 3 INCURRED 1 POWER REDUCTION IN FEBRUARY TO REPAIR MAIN FEED WATER PUMP LEAK.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)
	F-Admin		
	G-Oper Error		
	H-Other		





INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-530/88-05) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, ONSITE FOLLOWUP OF REPORTS OF NONROUTINE EVENTS, RADIATION PROTECTION-STARTUP AND RADWASTE-STARTUP, IN-OFFICE REVIEW OF REPORTS OF NONROUTINE EVENTS AND PLANT TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-530/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 27-29, 1988 (REPORT NO. 50-530/88-07) AREAS INSPECTED: SPECIAL ANNOUNCED INSPECTION TO FOLLOWUP ON LER 50-528/87-25, WHICH DESCRIBED THE CIRCUMSTANCES SURROUNDING MODIFICATIONS MADE TO THE STEAM DRIVEN AUXILIARY FEEDWATER PUMPS IN UNITS 1 AND 2, WHICH RENDERED THE PUMPS INOPERABLE.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 23 - MARCH 3, 1988 (REPORT NO. 50-530/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 22 - MARCH 3, 1988 (REPORT NO. 50-530/88-09) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 6 - APRIL 2, 1988 (REPORT NO. 50-530/88-10) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

NONE

LAST IE SITE INSPECTION DATE: 03/06/88 - 04/02/88+

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

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\*                   PALO VERDE 3                   \*  
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INSPECTION REPORT NO: 50-530/88-10+

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE  
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1. Docket: 50-277                    O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: L. L. MIDGTON (215) 841-6374

4. Licensed Thermal Power (MWt):                    3295

5. Nameplate Rating (Gross MWe):                    280 X 0.9 = 1152

6. Design Electrical Rating (Net MWe):                    1065

7. Maximum Dependable Capacity (Gross MWe):                    1098

8. Maximum Dependable Capacity (Net MWe):                    1051

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NRC ORDER OF 3/31/87

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>119,712.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>74,196.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>71,866.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>212,810,745</u>
18. Gross Elec Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>70,019,230</u>
19. Net Elec Ener (MWH)	<u>-4,828</u>	<u>-9,063</u>	<u>67,032,053</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>60.0</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>60.0</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>53.3</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>52.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>12,304.0</u>

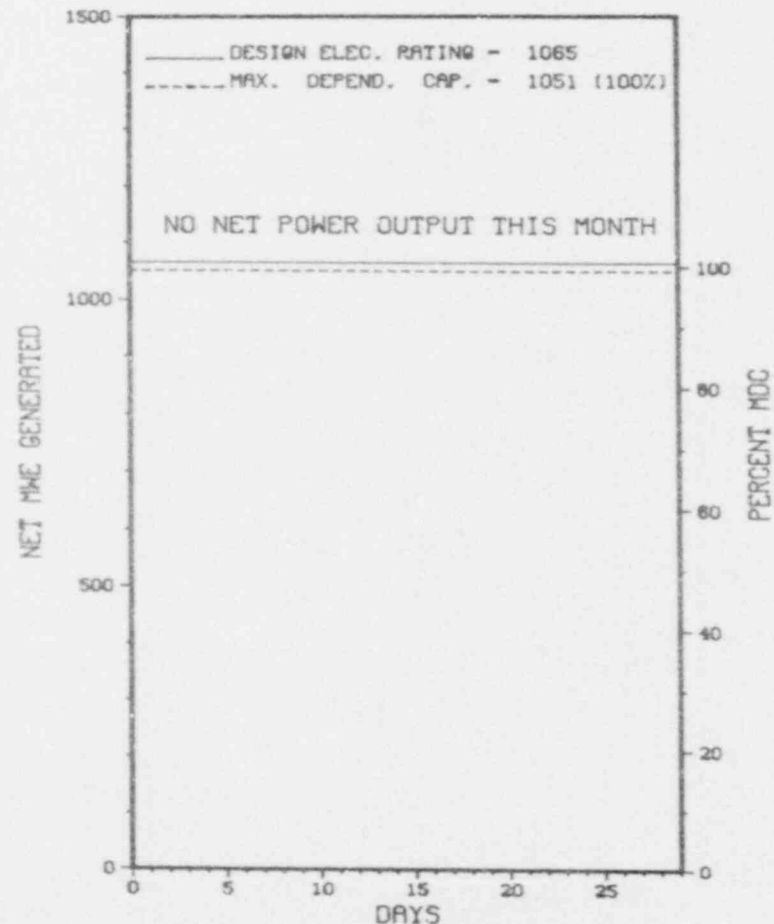
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

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\*                    PEACH BOTTOM 2                    \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PEACH BOTTOM 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* PEACH BOTTOM 2 \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/31/87	S	696.0	C	4		RC	FUELXX	CONTINUATION OF RESTART ACTIVITIES.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 PEACH BOTTOM 2 REMAINED SHUTDOWN IN ACCORDANCE WITH NRC ORDER,  
 HOWEVER, CONTINUED RESTART ACTIVITIES.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* PEACH BOTTOM 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....PENNSYLVANIA  
  
COUNTY.....YORK  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...19 MI S OF  
LANCASTER, PA  
  
TYPE OF REACTOR.....BWR  
  
DATE INITIAL CRITICALITY...SEPTEMBER 16, 1973  
  
DATE ELEC ENER 1ST GENER...FEBRUARY 18, 1974  
  
DATE COMMERCIAL OPERATE...JULY 5, 1974  
  
CONDENSER COOLING METHOD...ONCE THRU  
  
CONDENSER COOLING WATER...SUSQUEHANNA RIVER  
  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY  
LICENSEE.....PHILADELPHIA ELECTRIC  
  
CORPORATE ADDRESS.....2301 MARKET STREET  
PHILADELPHIA, PENNSYLVANIA 19105  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
  
CONSTRUCTOR.....BECHTEL  
  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
  
IE RESIDENT INSPECTOR.....T. JOHNSON  
  
LICENSING PROJ MANAGER.....R. MARTIN  
DOCKET NUMBER.....50-277  
  
LICENSE & DATE ISSUANCE...DPR-44, DECEMBER 14, 1973  
  
PUBLIC DOCUMENT ROOM.....GOVERNMENT PUBLICATIONS SECTION  
STATE LIBRARY OF PENNSYLVANIA  
FORUM BUILDING  
COMMONWEALTH AND WALNUT STREET  
HARRISBURG, PENNSYLVANIA 17105

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 50 APPENDIX B CRITERION III REQUIRES THAT MEASURES BE ESTABLISHED FOR THE SELECTION AND REVIEW FOR SUITABILITY OF APPLICATION OF MATERIALS, PARTS, EQUIPMENT, AND PROCESSES THAT ARE ESSENTIAL TO THE SAFETY-RELATED FUNCTIONS OF STRUCTURES, SYSTEMS AND COMPONENTS. PHILADELPHIA ELECTRIC QUALITY ASSURANCE PLAN FOR PEACH BOTTOM ATOMIC POWER STATION, VOLUME III, SECTION SP 3.2 REQUIRES AND ITEM(S) BE REVIEWED FOR SUITABILITY FOR ITS INTENDED SAFETY-RELATED USE PRIOR TO SELECTION WHEN PROCURED AS A STANDARD, COMMERCIAL GRADE (OFF-THE-SHELF) ITEM(S) OR IF IT HAD BEEN PREVIOUSLY REVIEWED FOR A DIFFERENT APPLICATION. SUCH COMMERCIAL GRADE PURCHASES ARE DEFINED AS QUALITY ASSURED ITEMS (PROCUREMENTS UNDER THE FULL AUSPICES OF A QA PROGRAM ARE CLASSIFIED AS NUCLEAR SAFETY-RELATED ITEMS). CONTRARY TO THE ABOVE THE FOLLOWING ITEMS WERE PROCURED AS QUALITY ASSURED (I.E., COMMERCIAL GRADE) AND IDENTIFIED AS ACCEPTABLE FOR IN-PLANT SAFETY-RELATED USE ALTHOUGH THE DOCUMENTED REVIEW DID NOT JUSTIFY THE ITEMS SUITABILITY FOR THEIR INTENDED USE, (1) PO #BW 218026, PECO CODE 115-02145, ASCO SOLENOID VALVE; (2) PO #BW 210672, PECO CODE 115-73852, CROSBY RELIEF VALVE; (3) PO #BW 298553 PECO CODE 115-20637, MUESCO AIR OPERATED VALVE DIAPHRAM; (4) PO #BW 215582 PECO CODE 115-0740B, MUESCO VALVE OPERATOR SPRING; (5) PO #SO 126096, PECO CODE 115-88273, AKTOMATIC VALVE INSERT; (6) PO #SO

ENFORCEMENT SUMMARY

126022, PECO CODE 115-04107, AUTOMATIC SOLENOID VALV3.

CONTRARY TO 10 CFR 20.201 AND 20.203 ON OCTOBER 7, 1987, RADIATION LEVELS IN THE VICINITY OF THE UNIT 2 REGENERATIVE HEAT EXCHANGER ROOM DOOR WERE 200 MR/HR AND THE AREA WAS NOT POSTED AS A HIGH RADIATION AREA. ON OCTOBER 19, 1987, AN INADEQUATE SURVEY WAS CONDUCTED IN THE 2A RHK ROOM RESULTING IN AN UNPLANNED RADIOACTIVE MATERIAL INTAKE OF 42 MAXIMUM PERMISSIBLE CONCENTRATION HOURS FOR ONE INDIVIDUAL. FROM AUGUST 10, 1987 TO OCTOBER 26, 1987, A RADWASTE DRUM MANIPULATOR WAS STORED IN AN UNRESTRICTED AREA NEAR THE NORTH SUBSTATION WITH RADIATION LEVELS OF 12,000 COUNTS PER MINUTE FIXED AND 1,800 DISINTEGRATIONS PER MINUTE PER 100 SQUARE CENTIMETERS SMEARABLE, AND THE AREA WAS NOT POSTED AS RADIOACTIVE MATERIALS. ON OCTOBER 30, 1987, FIXED CONTAMINATION LEVELS OF 60,000 COUNTS PER MINUTE WAS FOUND IN AN UNRESTRICTED AREA NEAR THE DECONTAMINATION TRAILER AT THE SOUTH EAST SIDE OF THE PROTECTED AREA, AND THE AREA WAS NOT POSTED AS RADIOACTIVE MATERIALS.

(8702 4)

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERIA VI, "DOCUMENT CONTROL" ON OCTOBER 5, 1987, A FIELD INITIATED CHANGE TO THE PORC APPROVED REPAIR PROCEDURE FOR EMERGENCY COOLING WATER SYSTEM PIPE SUPPORT 48HB-H58 WAS MADE WITHOUT APPROVAL.

(8702 5)

FAILURE OF PA BARRIER TO COMFORM WITH THE NRC APPROVED SECURITY PLAN AND FAILURE TO COMPLY WITH SECURITY PROCEDURE RP-36. FAILURE TO MAINTAIN LIGHTING LEVELS WITHIN THE PA ISOLATION ZONES AND PROTECTED AREA.

(8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.



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\* PEACH BOTTOM 2 \*  
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R E P O R T S F R O M L I C E N S E E

Report Period FEB 1988

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

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Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* PEACH BOTTOM 3 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/31/87	S	696.0	C	4		RC	FUELXX	CONTINUATION OF REFUEL AND PIPE REPLACEMENT ACTIVITY.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 PEACH BOTTOM 3 REMAINED SHUTDOWN IN ACCORDANCE WITH NRC ORDER,  
 HOWEVER, CONTINUED RESTART ACTIVITIES.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* PEACH BOTTOM 3 \*  
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FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....PENNSYLVANIA  
  
COUNTY.....YORK  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...19 MI S OF  
LANCASTER, PA  
  
TYPE OF REACTOR.....BWR  
  
DATE INITIAL CRITICALITY...AUGUST 7, 1974  
  
DATE ELEC ENER 1ST GENER...SEPTEMBER 1, 1974  
  
DATE COMMERCIAL OPERATE...DECEMBER 23, 1974  
  
CONDENSER COOLING METHOD...ONCE THRU  
  
CONDENSER COOLING WATER...SUSQUEHANNA RIVER  
  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PHILADELPHIA ELECTRIC  
  
CORPORATE ADDRESS.....2301 MARKET STREET  
PHILADELPHIA, PENNSYLVANIA 19105

CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
  
CONSTRUCTOR.....BECHTEL  
  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
  
IE RESIDENT INSPECTOR.....T. JOHNSON  
  
LICENSING PROJ MANAGER.....R. MARTIN  
DOCKET NUMBER.....50-278  
  
LICENSE & DATE ISSUANCE....DPR-56, JULY 2, 1974  
  
PUBLIC DOCUMENT ROOM.....GOVERNMENT PUBLICATIONS SECTION  
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HARRISBURG, PENNSYLVANIA 17105

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 50 APPENDIX B CRITERION III REQUIRES THAT MEASURES BE ESTABLISHED FOR THE SELECTION AND REVIEW FOR SUITABILITY OF APPLICATION OF MATERIALS, PARTS, EQUIPMENT, AND PROCESSES THAT ARE ESSENTIAL TO THE SAFETY-RELATED FUNCTIONS OF STRUCTURES, SYSTEMS AND COMPONENTS, PHILADELPHIA ELECTRIC QUALITY ASSURANCE PLAN FOR PEACH BOTTOM ATOMIC POWER STATION, VOLUME III, SECTION SP 3.2 REQUIRES AND ITEM(S) BE REVIEWED FOR SUITABILITY FOR ITS INTENDED SAFETY-RELATED USE PRIOR TO SELECTION WHEN PROCURED AS A STANDARD, COMMERCIAL GRADE (OFF-THE-SHELF) ITEM(S) OR IF IT HAD BEEN PREVIOUSLY REVIEWED FOR A DIFFERENT APPLICATION. SUCH COMMERCIAL GRADE PURCHASES ARE DEFINED AS QUALITY ASSURED ITEMS (PROCUREMENTS UNDER THE FULL AUSPICES OF A QA PROGRAM ARE CLASSIFIED AS NUCLEAR SAFETY-RELATED ITEMS). CONTRARY TO THE ABOVE THE FOLLOWING ITEMS WERE PROCURED AS QUALITY ASSURED (I.E., COMMERCIAL GRADE) AND IDENTIFIED AS ACCEPTABLE FOR IN-PLANT SAFETY-RELATED USE ALTHOUGH THE DOCUMENTED REVIEW DID NOT JUSTIFY THE ITEMS SUITABILITY FOR THEIR INTENDED USE, (1) PO #BW 218026, PECO CODE 115-02145, ASCO SOLENOID VALVE; (2) PO #BW 210672, PECO CODE 115-73852, CROSBY RELIEF VALVE; (3) PO #BW 298553 PECO CODE 115-20637, MUESCO AIR OPERATED VALVE DIAPHRAM; (4) PO #BW 215582 PECO CODE 115-0740B, MUESCO VALVE OPERATOR SPRING; (5) PO #SO 126096, PECO CODE 115-8827J, AKTOMATIC VALVE INSERT; (6) PO #SO

ENFORCEMENT SUMMARY

126022, PECO CODE 115-04107, AKTOMATIC SOLENOID VALV3.

CONTRARY TO 10 CFR 20.201 AND 20.203 ON OCTOBER 7, 1987, RADIATION LEVELS IN THE VICINITY OF THE UNIT 2 REGENERATIVE HEAT EXCHANGER ROOM DOOR WERE 200 MR/HR AND THE AREA WAS NOT POSTED AS A HIGH RADIATION AREA. ON OCTOBER 19, 1987, AN INADEQUATE SURVEY WAS CONDUCTED IN THE 2A RHR ROOM RESULTING IN AN UNPLANNED RADIOACTIVE MATERIAL INTAKE OF 42 MAXIMUM PERMISSIBLE CONCENTRATION HOURS FOR ONE INDIVIDUAL. FROM AUGUST 10, 1987 TO OCTOBER 26, 1987, A RADWASTE DRUM MANIPULATOR WAS STORED IN AN UNRESTRICTED AREA NEAR THE NORTH SUBSTATION WITH RADIATION LEVELS OF 12,000 COUNTS PER MINUTE FIXED AND 1,800 DISINTEGRATIONS PER MINUTE PER 100 SQUARE CENTIMETERS SMEARABLE, AND THE AREA WAS NOT POSTED AS RADIOACTIVE MATERIALS. ON OCTOBER 30, 1987, FIXED CONTAMINATION LEVELS OF 60,000 COUNTS PER MINUTE WAS FOUND IN AN UNRESTRICTED AREA NEAR THE DECONTAMINATION TRAILER AT THE SOUTH EAST SIDE OF THE PROTECTED AREA, AND THE AREA WAS NOT POSTED AS RADIOACTIVE MATERIALS.

(8702 4)

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERIA VI, "DOCUMENT CONTROL" ON OCTOBER 5, 1987, A FIELD INITIATED CHANGE TO THE PORC APPROVED REPAIR PROCEDURE FOR EMERGENCY COOLING WATER SYSTEM PIPE SUPPORT 48HB-H58 WAS MADE WITHOUT APPROVAL.  
(8702 5)

FAILURE OF PA BARRIER TO COMFORM WITH THE NRC APPROVED SECURITY PLAN AND FAILURE TO COMPLY WITH SECURITY PROCEDURE RP-36. FAILURE TO MAINTAIN LIGHTING LEVELS WITHIN THE PA ISOLATION ZONES AND PROTECTED AREA. TECHNICAL SPECIFICATION 6.8.1, STATES, IN PART: "WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED COVERING THE ACTIVITIES REFERENCED: THE APPLICABLE PROCEDURES RECOMMENDED IN APPENDIX "A" OF REGULATORY GUIDE 1.33, NOVEMBER 1972..." REGULATORY GUIDE 1.33, NOVEMBER 1972, APPENDIX A, PARAGRAPH 1.1, STATES, IN PART: "MAINTENANCE WHICH CAN AFFECT THE PERFORMANCE OF SAFETY-RELATED EQUIPMENT SHOULD BE PROPERLY PREPLANNED AND PERFORMED IN ACCORDANCE WITH WRITTEN PROCEDURES, DOCUMENTED INSTRUCTIONS, OR DRAWINGS APPROPRIATE TO THE CIRCUMSTANCES..." MAINTENANCE ADMINISTRATIVE PROCEDURE, MAP-0002, "CONTROL OF MAINTENANCE ACTIVITIES", PARAGRAPH 5.6.4 STATES, IN PART: "THE ASSIGNED CRAFTSMAN IS RESPONSIBLE FOR COMPLETING ALL SAFETY RELATED MAINTENANCE ACTIVITIES IN ACCORDANCE WITH APPROVED PROCEDURES OR WRITTEN INSTRUCTIONS IN THE SEQUENCE WRITTEN..." CONTRARY TO THE STATED REQUIREMENTS, ON NOVEMBER 11, 1987, WORK REQUEST (WR) 139613A, STEP 4 WAS NOT PERFORMED WHILE TROUBLESHOOTING THE REFRIGERATION UNIT U-545B OF THE ESSENTIAL HVAC SYSTEM FOR THE CONTROL ROOM/TECHNICAL SUPPORT CENTER. THE PROCEDURE STEP PROHIBITED COMPONENT REWORK FROM BEING ACCOMPLISHED WITHIN THE SCOPE OF THE TROUBLESHOOTING WORK REQUEST. HOWEVER, THE UNIT WAS REQUIRED TO CORRECT AN OBSERVED NONCONFORMANCE IDENTIFIED DURING THE TROUBLESHOOTING WITHOUT REVISING THE WORK REQUEST. RANCHO SECQ QUALITY ASSURANCE PROCEDURE, QAP-17, "NONCONFORMING MATERIAL CONTROL", PARAGRAPH 4.1 STATES: "SYSTEMS, EQUIPMENT AND APPURTENANCES, COMPONENTS, PARTS OR MATERIAL WHICH DO NOT MEET THE SPECIFIED REQUIREMENTS OF PURCHASE ORDERS, DESIGN DRAWINGS, OPERATIONAL/TEST DOCUMENTS, OR CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED NONCONFORMING. REFER TO ATTACHMENT 7.3 FOR GUIDELINES ON WHEN TO WRITE NCR". ATTACHMENT 7.3 STATES, IN PART: "OPERATIONAL: IF A DISCREPANCY IS FOUND BETWEEN AS-BUILT AND DRAWING, AN NCR SHALL BE INITIATED". CONTRARY TO THE STATED REQUIREMENTS, ON NOVEMBER 11, 1987, AN NCR WAS NOT INITIATED TO CORRECT A NONCONFORMANCE DISCOVERED BETWEEN THE AS-BUILT WIRING OF THE REFRIGERATION UNIT U545B OF THE CR/TSC HVAC SYSTEM AND DRAWING NUMBER E-342, SH.71, REV.R, DCN 11A, SH. 1 & 2.  
(8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                    PEACH BOTTOM 3                    \*  
\*\*\*\*\*

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

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1. Docket: 50-440 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: G. A. DUNN (216) 259-3737

4. Licensed Thermal Power (Mwt): 3579

5. Nameplate Rating (Gross MWe): 1250

6. Design Electrical Rating (Net MWe): 1205

7. Maximum Dependable Capacity (Gross MWe): 1250

8. Maximum Dependable Capacity (Net MWe): 1205

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe):

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>2,484.0</u>
13. Hours Reactor Critical	<u>618.0</u>	<u>781.5</u>	<u>1,592.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>579.2</u>	<u>697.3</u>	<u>1,470.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,952,066</u>	<u>2,249,167</u>	<u>4,810,686</u>
18. Gross Elec Ener (MWH)	<u>672,589</u>	<u>770,743</u>	<u>1,649,205</u>
19. Net Elec Ener (MWH)	<u>636,554</u>	<u>718,425</u>	<u>1,546,909</u>
20. Unit Service Factor	<u>83.2</u>	<u>48.4</u>	<u>59.2</u>
21. Unit Avail Factor	<u>83.2</u>	<u>48.4</u>	<u>59.2</u>
22. Unit Cap Factor (MDC Net)	<u>75.9</u>	<u>41.4</u>	<u>51.7</u>
23. Unit Cap Factor (DER Net)	<u>75.9</u>	<u>41.4</u>	<u>51.7</u>
24. Unit Forced Outage Rate	<u>16.8</u>	<u>14.3</u>	<u>20.8</u>
25. Forced Outage Hours	<u>116.8</u>	<u>115.8</u>	<u>387.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

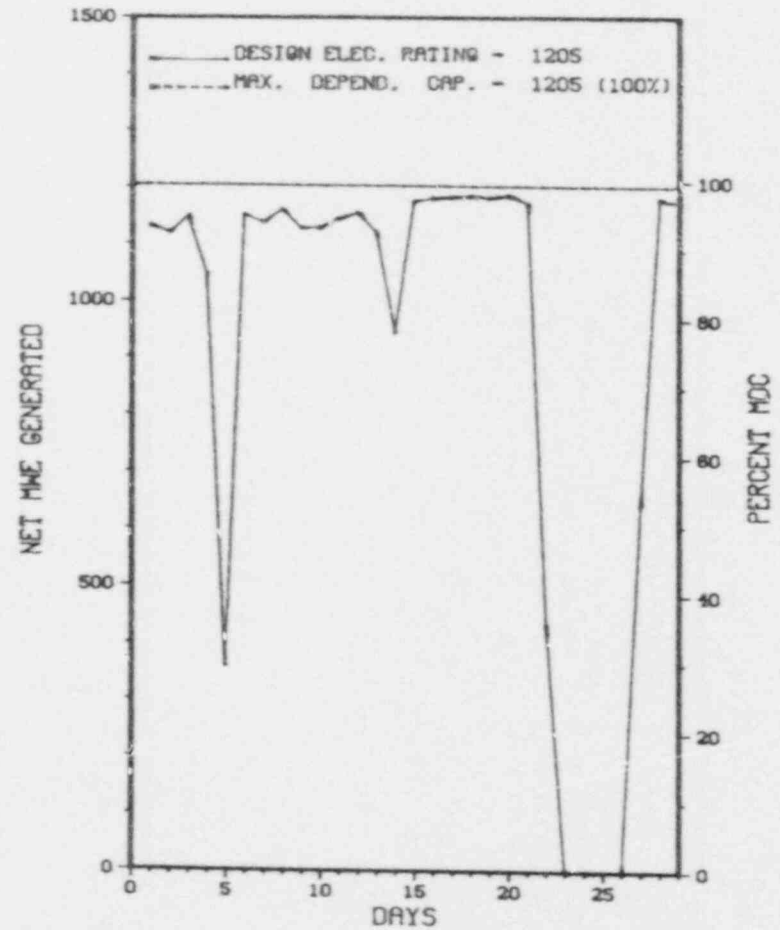
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* PERRY 1 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PERRY 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X PERRY 1 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/05/88	F	7.0	A	9		N11	VLV	GENERATOR TAKEN OFF LINE TO REPAIR TURBINE VALVE HYDRAULIC LEAK DUE TO FAILED 'O' RING. DISASSEMBLED, REPLACED 'O' RING AND RE-ASSEMBLED.
2	02/13/88	F	0.0	A	5		N25	HTRS	REDUCTION IN POWER TO REPAIR FLANGE LEAK ON HIGH PRESSURE HEATER LEVEL TRANSMITTER. DISASSEMBLED, REPLACED GASKETS AND RE-ASSEMBLED.
3	02/22/88	F	109.8	A	1		N27	VLV	RX SHUTDOWN TO REPAIR 1N27-F560A WHICH EXHIBITED EXCESSIVE LEAKAGE IN DRYWELL. REWORKED SEAL RETAINING DEVICE TO ELIMINATE BODY TO BONNET SEAL-RING LEAK.

XXXXXXXXXX PERRY 1 EXPERIENCED 2 FORCED OUTAGES AND 1 POWER REDUCTION  
 \* SUMMARY \* IN FEBRUARY FOR REASONS STATED ABOVE.  
 XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* PERRY 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....OHIO  
COUNTY.....LAKE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...7 MI NE OF  
PAINESVILLE, OHIO  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JUNE 6, 1986  
DATE ELEC ENER 1ST GENER...DECEMBER 19, 1986  
DATE COMMERCIAL OPERATE...NOVEMBER 18, 1987  
CONDENSER COOLING METHOD...CC HNDCT  
CONDENSER COOLING WATER...LAKE ERIE  
ELECTRIC RELIABILITY  
COUNCIL.....EAST CENTRAL AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CLEVELAND ELECTRIC ILLUMINATING  
CORPORATE ADDRESS.....P.O. BOX 5000  
CLEVELAND, OHIO 44101  
CONTRACTOR  
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....KAISER ENGINEERS  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....K. CONNAUGHTON  
LICENSING PROJ MANAGER.....T. COLBURN  
DOCKET NUMBER.....50-440  
LICENSE & DATE ISSUANCE...NPF-58, NOVEMBER 13, 1986  
PUBLIC DOCUMENT ROOM.....PERRY PUBLIC LIBRARY  
3753 MAIN ST.  
PERRY, OH. 44081

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION ON OCTOBER 20, 1987 THRU DECEMBER 30, 1987 (87023) ROUTINE UNANNOUNCED INSPECTION RESIDENT INSPECTORS OF PREVIOUS INSPECTION ITEMS, IE BULLETINS, 10 CFR PART 21 REPORTS, REGIONAL OFFICE REQUESTS, OPERATIONAL SAFETY, NONROUTINE EVENTS, LICENSEE EVENT REPORTS, COLD WEATHER PREPARATIONS, STARTUP TESTING, MAINTENANCE, SURVEILLANCE TESTING, PHYSICAL SECURITY, RADIOLOGICAL CONTROLS, CONTAINMENT CLOSEOUT, AND ONSITE REVIEW COMMITTEE MEETINGS. OF THE 15 AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED IN ONE AREA: (RCIC SYSTEM INOPERABLE WHEN REACTOR PRESSURE INCREASED ABOVE 150 PSIG; AND ONE VIOLATION WAS IDENTIFIED IN A SECOND AREA (FAILURE TO TAKE TECHNICAL SPECIFICATION REQUIRED ACTIONS FOR INOPERABLE INTERMEDIATE RANGE NEUTRON MONITORING INSTRUMENTATION). ADDITIONALLY, THREE VIOLATIONS WERE IDENTIFIED IN THE SECOND AREA; HOWEVER, IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.A., A NOTICE OF VIOLATION WAS NOT ISSUED (RCIC SUCTION LOGIC OVERRIDDEN WITHOUT DECLARING RCIC INOPERABLE; FAILURE TO TAKE REQUIRED ACTIONS FOR DIESEL GENERATOR FUEL OIL OUT-OF SPECIFICATION AND; FAILURE TO VERIFY OPERABILITY OF OFFSITE POWER SOURCES WITHIN REQUIRED TIMEFRAME). DURING THIS INSPECTION PERIOD, A DECLINE IN THE FREQUENCY OF REPORTABLE EVENTS WAS NOTED. TWO EVENTS IN NOVEMBER, 1987, AND TWO EVENTS IN DECEMBER, 1987 REQUIRED SUBMITTAL OF LICENSEE EVENT REPORTS.

INSPECTION ON JULY 13 THROUGH NOVEMBER 10 (87013): SPECIAL ANNOUNCED SAFETY INSPECTION OF THE ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRIC EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. THE INSPECTION INCLUDED LICENSEE ACTION ON SERVICE COMMITMENTS; EQ PROGRAM COMPLIANCE TO 10 CFR 50.49 AND REQUIREMENTS OF REGULATORY GUIDE 1.97; ADEQUACY OF EQ DOCUMENTATION; AND A PLANT PHYSICAL INSPECTION OF EQ EQUIPMENT (MODULE NOS. 30703, 25576, AND 25587). THE LICENSEE HAS ESTABLISHED, BUT NOT ADEQUATELY IMPLEMENTED A PROGRAM TO MEET THE REQUIREMENTS OF 10 CFR 50.49. DEFICIENCIES IN THE AREAS INSPECTED ARE SUMMARIZED BELOW.

INSPECTION ON NOVEMBER 29 THROUGH DECEMBER 4 (87027): SPECIAL AUGMENTED INSPECTION TEAM (AIT) INSPECTION CONDUCTED IN RESPONSE TO  
PAGE 2-304



1. Docket: 50-293                    O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: P. HAMILTON (617) 746-7900

4. Licensed Thermal Power (Mwt):                    1998

5. Nameplate Rating (Gross MWe):                    780 X 0.87 = 678

6. Design Electrical Rating (Net MWe):                    655

7. Maximum Dependable Capacity (Gross MWe):                    690

8. Maximum Dependable Capacity (Net MWe):                    670

9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>133,464.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>79,778.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. L-s Generator On-Line	<u>.0</u>	<u>.0</u>	<u>77,216.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>0</u>	<u>135,480,048</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>45,444,604</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>43,675,429</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>57.9</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>57.9</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>48.8</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>50.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>12.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,922.7</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

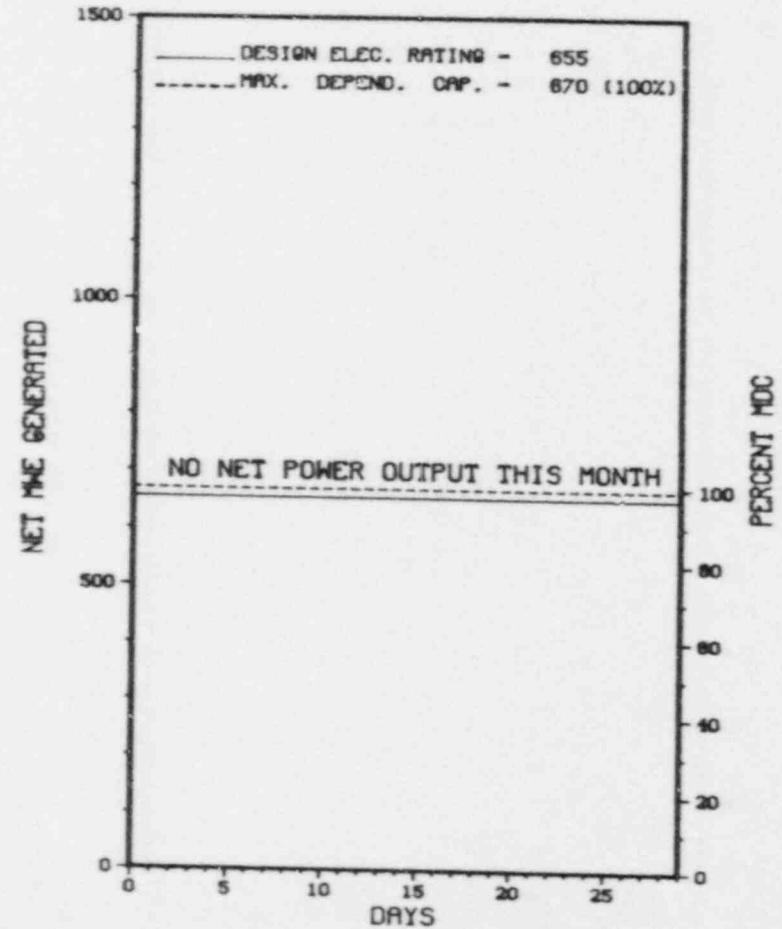
NONE

27. If Currently Shutdown Estimated Startup Date: 06/01/88

\*\*\*\*\*  
\*                    PILGRIM 1                    \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PILGRIM 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X PILGRIM 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
01	01/25/86	S	696.0	C	4				SHUTDOWN FOR RFO 7

XXXXXXXXXX PILGRIM 1 REMAINED SHUTDOWN IN FEBRUARY FOR SCHEDULED REFUELING  
\* SUMMARY \*  
XXXXXXXXXX  
OUTAGE, MAINTENANCE AND TESTING.

Type	Reason	Method	System & Component	
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling	H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction		4-Continued	Data Entry Sheet
	E-Operator Training		5-Reduced Load	Licensee Event Report
	& License Examination		9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* PILGRIM 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MASSACHUSETTS  
COUNTY.....PLYMOUTH  
DIST AND DIRECTION FRGM  
NEAREST POPULATION CTR...4 MI SE OF  
PLYMOUTH, MASS  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JUNE 16, 1972  
DATE ELEC ENER 1ST GENER...JULY 19, 1972  
DATE COMMERCIAL OPERATE...DECEMBER 1, 1972  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...CAPE COD BAY  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....BOSTON EDISON  
CORPORATE ADDRESS.....800 BOYLSTON STREET  
BOSTON, MASSACHUSETTS 02199  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....C. WARREN  
LICENSING PROJ MANAGER.....D. MCDONALD  
DOCKET NUMBER.....50-293  
LICENSE & DATE ISSUANCE...DPR-35, SEPTEMBER 15, 1972  
PUBLIC DOCUMENT ROOM.....PLYMOUTH PUBLIC LIBRARY  
11 NORTH STREET  
PLYMOUTH, MASSACHUSETTS 02360

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

I N S P E C T I O N   S T A T U S





1. Docket: 50-266 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: C. W. KRAUSE (414) 221-2001

4. Licensed Thermal Power (MWT): 1518

5. Nameplate Rating (Gross MWe): 582 X 0.9 = 524

6. Design Electrical Rating (Net MWe): 497

7. Maximum Dependable Capacity (Gross MWe): 509

8. Maximum Dependable Capacity (Net MWe): 485

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

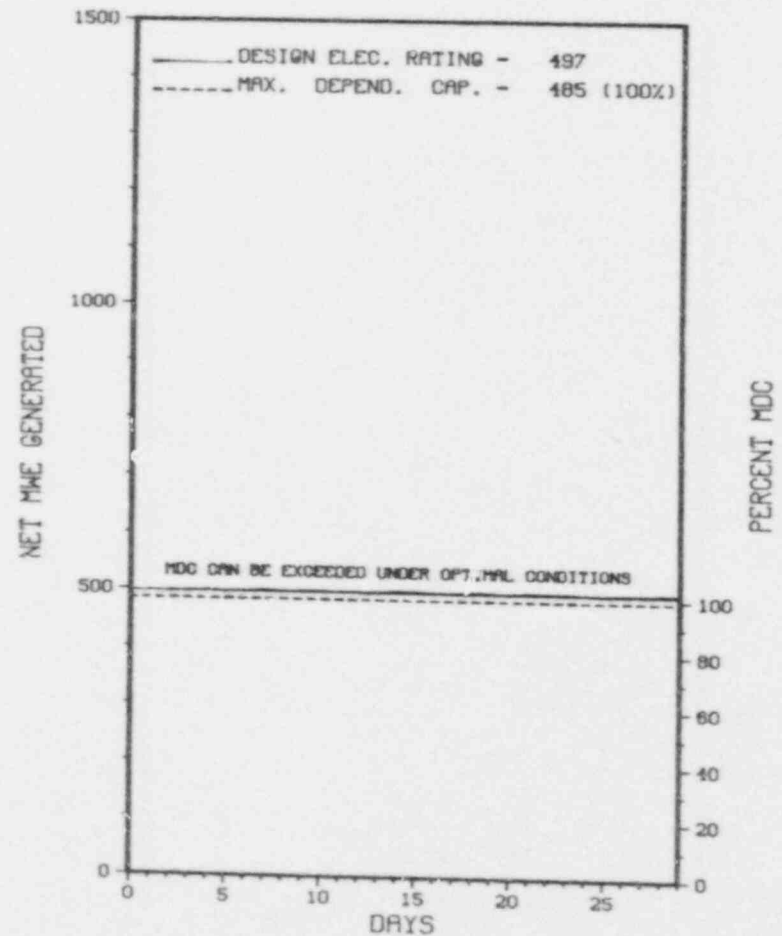
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>151,800.0</u>
13. Hrs Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>124,207.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>652.7</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>121,484.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>837.3</u>
17. Gross Therm Ener (MWH)	<u>1,056,472</u>	<u>2,182,214</u>	<u>167,809,268</u>
18. Gross Elec Ener (MWH)	<u>361,440</u>	<u>746,030</u>	<u>56,569,380</u>
19. Net Elec Ener (MWH)	<u>346,954</u>	<u>716,013</u>	<u>53,884,441</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>80.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>80.6</u>
22. Unit Cap Factor (MDC Net)	<u>102.8</u>	<u>192.5</u>	<u>72.7*</u>
23. Unit Cap Factor (DER Net)	<u>100.3</u>	<u>100.0</u>	<u>71.4</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>2.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,464.3</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING/MAINTENANCE - APRIL 8, 1988 - 33 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* POINT BEACH 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
POINT BEACH 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* POINT BEACH 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
-----	------	------	-------	--------	--------	------------	------------------	---

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*

POINT BEACH 1 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* POINT BEACH 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....WISCONSIN  
COUNTY.....MANITOWOC  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...15 MI N OF  
MANITOWOC, WISC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...NOVEMBER 2, 1970  
DATE ELEC ENER 1ST GEMER...NOVEMBER 6, 1970  
DATE COMMERCIAL OPERATE...DECEMBER 21, 1970  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....WISCONSIN ELECTRIC POWER COMPANY  
CORPORATE ADDRESS.....231 WEST MICHIGAN STREET  
MILWAUKEE, WISCONSIN 53201  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....R. HAGUE  
LICENSING PROJ MANAGER.....D. WAGNER  
DOCKET NUMBER.....50-266  
LICENSE & DATE ISSUANCE...DPR-24, OCTOBER 5, 1970  
PUBLIC DOCUMENT ROOM.....JOSEPH MANN PUBLIC LIBRARY  
1516 16TH ST.  
TWO RIVERS, WISCONSIN 54241

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 1 THROUGH DECEMBER 15 (87022; 87023): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; OUTAGES, CONTAINMENT INTEGRITY, AND LICENSEE EVENT REPORT FOLLOW-UP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 5-6 (88004): SPECIAL, ANNOUNCED INSPECTION OF THE POINT BEACH NUCLEAR POWER PLANT EMERGENCY RESPONSE FACILITIES IN REGARDS TO THE NRC SITE TEAM, INCLUDING: AVAILABLE FACILITY SPACE; FACILITY LAYOUT; COMMUNICATIONS; AND NRC COMPUTER COMPATIBILITY. FOR THE AREAS INSPECTED NO VIOLATIONS, DEFICIENCIES, OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON DECEMBER 15 THROUGH JANUARY 31 (88002): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; AND LICENSEE EVENT REPORT FOLLOW-UP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 11-15 (88003): ROUTINE UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS (IP 83722), AUDITS AND APPRAISALS (IP 83722), EXTERNAL AND INTERNAL EXPOSURE CONTROLS (IP 83724, 83725), FACILITIES AND EQUIPMENT (IP 83727), AND CONTAMINATION CONTROL (IP 83726). ALSO REVIEWED WERE RADIOLOGICAL EVENT REPORTS AND OPEN ITEMS, AND THE STATUS OF SPENT FUEL POOL LEAKAGE, FUEL INTEGRITY, AND DISPOSITION OF SLIGHTLY CONTAMINATED SEWERAGE SLUDGE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                   POINT BEACH 1                   \*  
\*\*\*\*\*

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 02/12/88

INSPECTION REPORT NO: 88005

R E P O R T S   F R O M   L I C E N S E E

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=====
NUMBER      DATE OF      DATE OF      SUBJECT
            EVENT        REPORT
=====

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1. Docket: 50-301 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: C. W. KRAUSE (414) 221-2001

4. Licensed Thermal Power (Mwt): 1518

5. Nameplate Rating (Gross MWe): 582 X 0.9 = 524

6. Design Electrical Rating (Net MWe): 497

7. Maximum Dependable Capacity (Gross MWe): 509

8. Maximum Dependable Capacity (Net MWe): 485

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any: NONE

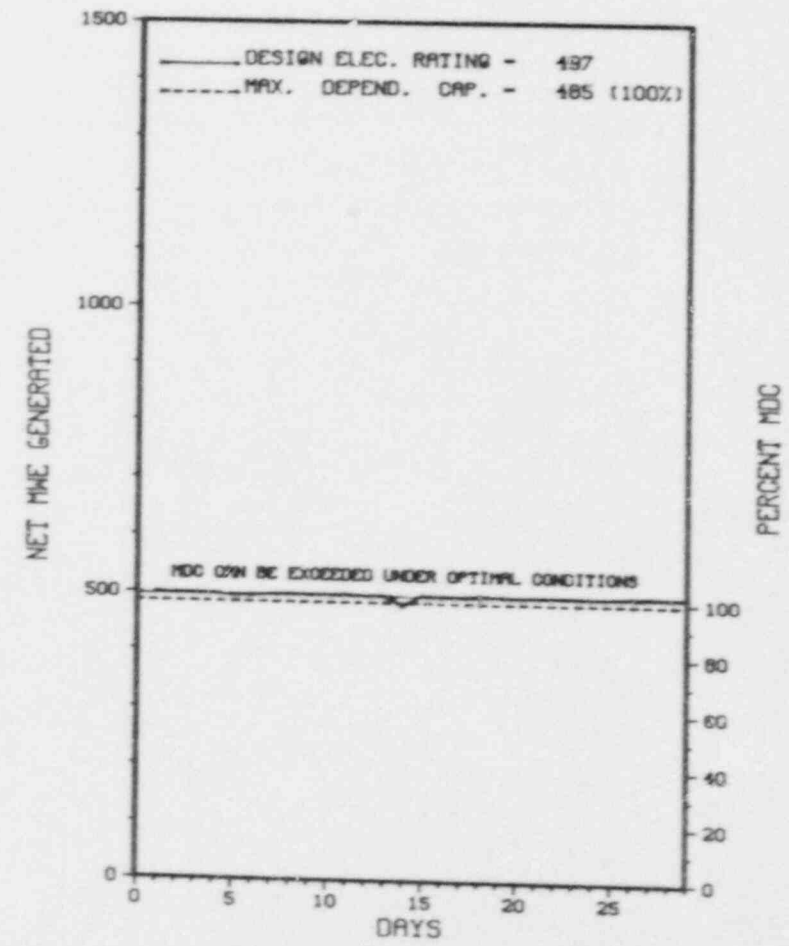
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>136,585.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>119,834.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>215.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>117,910.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>292.4</u>
17. Gross Therm Ener (MWH)	<u>1,055,151</u>	<u>2, 8,724</u>	<u>166,749,319</u>
18. Gross Elec Ener (MWH)	<u>361,470</u>	<u>746,760</u>	<u>56,526,980</u>
19. Net Elec Ener (MWH)	<u>346,266</u>	<u>715,497</u>	<u>53,859,911</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>86.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>86.5</u>
22. Unit Cap Factor (MDC Net)	<u>102.6</u>	<u>102.4</u>	<u>80.5*</u>
23. Unit Cap Factor (DER Net)	<u>100.1</u>	<u>100.0</u>	<u>79.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>1.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>851.2</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* POINT BEACH 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
POINT BEACH 2



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* POINT BEACH 2 \*  
\*\*\*\*\*

No.   Date   Type   Hours   Reason   Method   LER Number   System   Component   Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
POINT BEACH 2 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR  
SIGNIFICANT POWER REDUCTIONS.

<u>Type</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; Component</u>	
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhibit F & H
S-Schod	B-Maint or Test	G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling	H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction		4-Continued	Data Entry Sheet
	E-Operator Training		5-Reduced Load	Licensee Event Report
	& License Examination		9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* POINT BEACH 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....WISCONSIN  
COUNTY.....MANITOWOC  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...15 MI N OF  
MANITOWOC, WISC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 30, 1972  
DATE ELEC ENER 1ST GENER...AUGUST 2, 1972  
DATE COMMERCIAL OPERATE...OCTOBER 1, 1972  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....WISCONSIN ELECTRIC POWER COMPANY  
CORPORATE ADDRESS.....231 WEST MICHIGAN STREET  
MILWAUKEE, WISCONSIN 53201  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....R. HAGUE  
LICENSING PROJ MANAGER.....D. WAGNER  
DOCKET NUMBER.....50-301  
LICENSE & DATE ISSUANCE...DPR-27, MARCH 8, 1973  
PUBLIC DOCUMENT ROOM.....JOSEPH MANN PUBLIC LIBRARY  
1516 16TH ST.  
TWO RIVERS, WISCONSIN 54241

INSPECTION SUMMARY

I N S P E C T I O N S T A T U S

INSPECTION ON NOVEMBER 1 THROUGH DECEMBER 15 (87022; 87023): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; OUTAGES, CONTAINMENT INTEGRITY, AND LICENSEE EVENT REPORT FOLLOW-UP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 5-6 (88004): SPECIAL, ANNOUNCED INSPECTION OF THE POINT BEACH NUCLEAR POWER PLANT EMERGENCY RESPONSE FACILITIES IN REGARDS TO THE NRC SITE TEAM, INCLUDING: AVAILABLE FACILITY SPACE; FACILITY LAYOUT; COMMUNICATIONS; AND NRC COMPUTER COMPATIBILITY. FOR THE AREAS INSPECTED NO VIOLATIONS, DEFICIENCIES, OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON DECEMBER 15 THROUGH JANUARY 31 (88002): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; AND LICENSEE EVENT REPORT FOLLOW-UP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 11-15 (88003): ROUTINE UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS (IP 83722), AUDITS AND APPRAISALS (IP 83722), EXTERNAL AND INTERNAL EXPOSURE CONTROLS (IP 83724, 83725), FACILITIES AND EQUIPMENT (IP 83727), AND CONTAMINATION CONTROL (IP 83726). ALSO REVIEWED WERE RADIOLOGICAL EVENT REPORTS AND OPEN ITEMS, AND THE STATUS OF SPENT FUEL POOL LEAKAGE, FUEL INTEGRITY, AND DISPOSITION OF SLIGHTLY CONTAMINATED SEWERAGE SLUDGE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period FEB 1988

INSPECTION STATUS - (CONTINUED)

\*\*\*\*\*  
\* POINT BEACH 2 \*  
\*\*\*\*\*

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 02/12/88

INSPECTION REPORT NO: 88005

REPORTS FROM LICENSEE

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
-----			
=====			



1. Docket: 50-282 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: DALE DUGSTAD (612) 388-1121

4. Licensed Thermal Power (Mht): 1650

5. Nameplate Rating (Gross MWe): 659 X 0.9 = 593

6. Design Electrical Rating (Net MWe): 530

7. Maximum Dependable Capacity (Gross MWe): 534

8. Maximum Dependable Capacity (Net MWe): 503

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>124,536.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>103,983.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,571.1</u>
15. Hrs Generator On-line	<u>696.0</u>	<u>1,440.0</u>	<u>102,548.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,138,990</u>	<u>2,356,712</u>	<u>161,410,636</u>
18. Gross Elec Ener (MWH)	<u>384,500</u>	<u>795,730</u>	<u>52,869,740</u>
19. Net Elec Ener (MWH)	<u>365,639</u>	<u>755,974</u>	<u>49,593,639</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>82.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>82.3</u>
22. Unit Cap Factor (MDC Net)	<u>104.4</u>	<u>104.4</u>	<u>79.2</u>
23. Unit Cap Factor (DER Net)	<u>99.1</u>	<u>99.1</u>	<u>75.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>6.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>3,715.2</u>

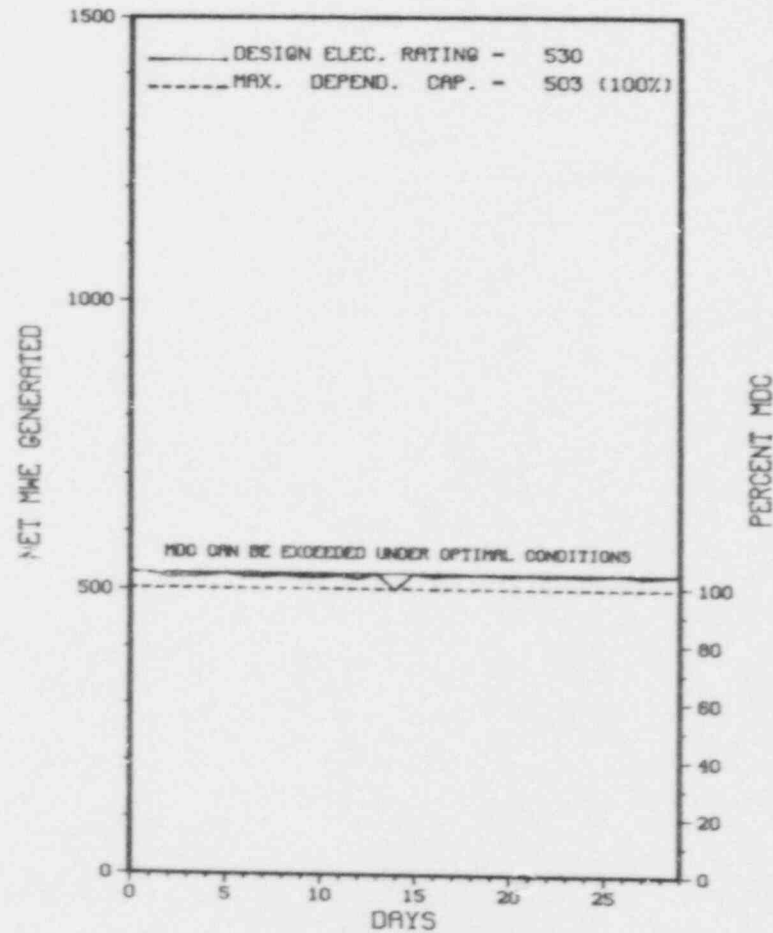
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* PRAIRIE ISLAND 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PRAIRIE ISLAND 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* PRAIRIE ISLAND 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
02-01	02/14/88	S	0.0	B	5				TURBINE VALVES TESTING.

\*\*\*\*\* PRAIRIE ISLAND 1 INCURRED 1 POWER REDUCTION IN FEBRUARY FOR VALVE TESTING.  
\* SUMMARY \*  
\*\*\*\*\*

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* PRAIRIE ISLAND 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MINNESOTA  
COUNTY.....GOODHUE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...28 MI SE OF  
MINNEAPOLIS, MINN  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...DECEMBER 1, 1973  
DATE ELEC ENER 1ST GENER...DECEMBER 4, 1973  
DATE COMMERCIAL OPERATE...DECEMBER 16, 1973  
CONDENSER COOLING METHOD...COOLING TOWERS  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-CONTINENT AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NORTHERN STATES POWER  
CORPORATE ADDRESS.....414 NICOLLET MALL  
MINNEAPOLIS, MINNESOTA 55401  
CONTRACTOR  
ARCHITECT/ENGINEER.....FLUOR PIONEER, INC.  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....NORTHERN STATES POWER COMPANY  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....J. HARD  
LICENSING PROJ MANAGER.....D. DIANNI  
DOCKET NUMBER.....50-282  
LICENSE & DATE ISSUANCE....DPR-42, APRIL 5, 1974  
PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY  
MINNEAPOLIS PUBLIC LIBRARY  
300 NICOLLET MALL  
MINNEAPOLIS, MINNESOTA 55401

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON JANUARY 11-14 (88003): ROUTINE, UNANNOUNCED INSPECTION OF INSERVICE INSPECTION (ISI) ACTIVITIES INCLUDING REVIEW OF PROGRAMS (73051), PROCEDURES (73052), OBSERVATION OF WORK ACTIVITIES (73753), AND DATA REVIEW (73055), AND AN ACCUMULATOR LEAK (73052, 73753, 73765). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON NOVEMBER 15 THROUGH JANUARY 2 (87017; 87016): ROUTINE UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS, PLANT OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCES, ESF SYSTEMS, PREPARATION FOR REFUELING, TRAINING, FOLLOWUP OF LICENSEE EVENT REPORTS, MEETINGS WITH CORPORATE MANAGEMENT, AND STAFF CHANGES. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 3 THRU FEBRUARY 13, 1988 (88001) ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS, PLANT OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCES, ESF SYSTEMS, REFUELING OUTAGE ACTIVITIES, LER FOLLOWUP, EMERGENCY PLANNING, TRAINING, AND MEETINGS WITH CORPORATE MANAGEMENT. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 20 THROUGH FEBRUARY 10 (88003; 88002): SPECIAL ANNOUNCED SAFETY INSPECTION TO VERIFY THE IMPLEMENTATION OF THE ACTIONS DESCRIBED IN CONFIRMATORY ACTION LETTER (CAL) RIII-87-013, AMENDMENT 1, DATED AUGUST 18, 1987, RELATING TO YOUR LICENSED OPERATOR REQUALIFICATION PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THE COURSE OF THE INSPECTION. ONE UNRESOLVED ITEM IS IDENTIFIED.

INSPECTION SUMMARY

INSPECTION ON JANUARY 5-7 (88002): SPECIAL, ANNOUNCED FOLLOWUP INSPECTION ON ITEMS IDENTIFIED DURING THE NOVEMBER 1987 ROUTINE INSPECTION, PLUS INITIAL REVIEW OF LICENSEE INITIATIVES TO IMPROVE THE EMERGENCY PREPAREDNESS PROGRAM AT THE QUAD CITIES STATION. THE INSPECTION INVOLVED ONE NRC INSPECTOR. NO VIOLATIONS OF NRC REQUIREMENTS AND NO DEVIATIONS FROM COMMITMENTS WERE IDENTIFIED DURING THE INSPECTION.

INSPECTION ON JANUARY 11-14 (88003): INCLUDED A REVIEW OF MANAGEMENT EFFECTIVENESS; SECURITY PROGRAM AUDITS; RECORDS AND REPORTS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - VITAL AREAS; ALARM STATIONS AND AN INITIAL REVIEW OF TWO ALLEGATIONS PERTAINING TO THE FITNESS FOR DUTY OF THE CONTRACT SECURITY FORCE SITE MANAGER AND THE IMPROPER BADGING OF TWO CONTRACTORS WHICH WAS ALLEGEDLY NOT PROPERLY REPORTED. THE INSPECTION WAS CONDUCTED BY ONE NRC INSPECTOR AND WAS INITIATED DURING THE DAYSHIFT BUT INCLUDED BACKSHIFT INSPECTION ACTIVITY. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS IN THE AREAS EXAMINED DURING THE INSPECTION. THE ALLEGATIONS REVIEWED DURING THIS INSPECTION WILL REMAIN OPEN AS A RESULT OF OUR NEED TO REVIEW INFORMATION RECEIVED SUBSEQUENT TO THIS INVESTIGATION.

INSPECTION ON DECEMBER 6 THROUGH FEBRUARY 6 (87033): ROUTINE, UNANNOUNCED RESIDENT INSPECTION OF OPERATIONS, MAINTENANCE, SURVEILLANCE, LER REVIEW, ROUTINE REPORTS, ADMINISTRATIVE CONTROLS AFFECTING QUALITY, RADIATION CONTROL, AND OUTAGES. IN THE AREAS INSPECTED, TWO DEVIATIONS, ONE VIOLATION, AND ONE LICENSEE IDENTIFIED VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 02/10/88

INSPECTION REPORT NO: 88003

Report Period FEB 1988

REPORTS FROM LICENSEE

\*\*\*\*\*  
\* PRAIRIE ISLAND 1 \*  
\*\*\*\*\*

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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1. Docket: 50-306                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: DALE DUGSTAD (612) 388-1121

4. Licensed Thermal Power (Mwt):                      1650

5. Nameplate Rating (Gross MWe):                      659 X 0.9 = 593

6. Design Electrical Rating (Net MWe):                      330

7. Maximum Dependable Capacity (Gross MWe):                      531

8. Maximum Dependable Capacity (Net MWe):                      500

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):                     

11. Reasons for Restrictions, If Any:                       
NONE

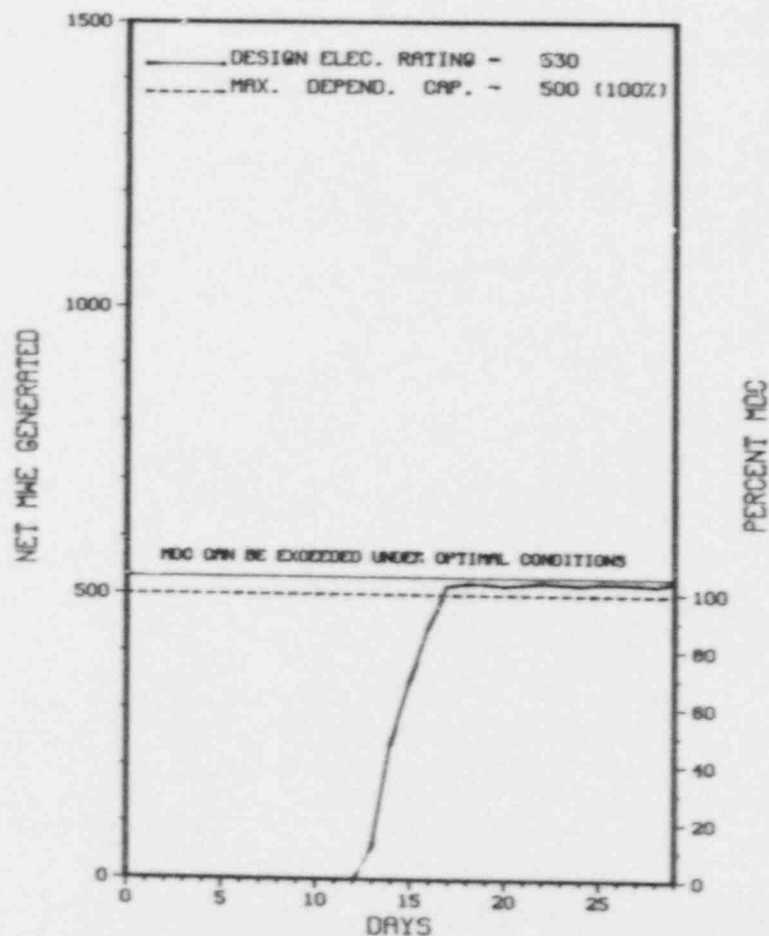
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>115,654.0</u>
13. Hours Reactor Critical	<u>423.1</u>	<u>541.7</u>	<u>100,766.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,516.1</u>
15. Hrs Generator On-Line	<u>404.0</u>	<u>522.2</u>	<u>99,717.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>605,353</u>	<u>751,578</u>	<u>156,897,655</u>
18. Gross Elec Ener (MWH)	<u>198,260</u>	<u>246,180</u>	<u>51,078,510</u>
19. Net Elec Ener (MWH)	<u>185,631</u>	<u>229,674</u>	<u>48,009,097</u>
20. Unit Service Factor	<u>58.0</u>	<u>36.3</u>	<u>86.2</u>
21. Unit Avail Factor	<u>58.0</u>	<u>36.3</u>	<u>86.2</u>
22. Unit Cap Factor (MDC Net)	<u>53.3</u>	<u>31.9</u>	<u>83.0</u>
23. Unit Cap Factor (DER Net)	<u>50.3</u>	<u>30.1</u>	<u>78.3</u>
24. Unit Forced Outage Rate	<u>.3</u>	<u>.2</u>	<u>3.1</u>
25. Forced Outage Hours	<u>1.1</u>	<u>1.1</u>	<u>3,360.1</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* PRAIRIE ISLAND 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
PRAIRIE ISLAND 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* PRAIRIE ISLAND 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
02-01	01/05/88	S	290.1	C	4				REFUELING OUTAGE CYCLE 11 TO 12 CORE CHANGE AND INSPECTION.
02-02	02/13/88	S	3.8	B	1				REQUIRED TURBINE TEST OF MECHANICAL OVERSPEED TRIP.
02-03	02/13/88	F	1.1	G	1				UNIT TAKEN OFF-LINE TO ALLOW CLOSURE OF 2M TRANSFORMER DISCONNECTS.

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 \* SUMMARY \*  
 \*\*\*\*\*  
 PRAIRIE ISLAND 2 ENTERED MONTH OF FEBRUARY SHUTDOWN FOR SCHEDULED REFUELING OUTAGE. RETURNED TO POWER ON 13TH. SUBSEQUENTLY INCURRED 2 MORE OUTAGES AS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* PRAIRIE ISLAND 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MINNESOTA  
COUNTY.....GOODHUE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...28 MI SE OF  
MINNEAPOLIS, MINN  
TYPE OF REACTOR.....PNR  
DATE INITIAL CRITICALITY...DECEMBER 17, 1974  
DATE ELEC ENER 1ST GENER...DECEMBER 21, 1974  
DATE COMMERCIAL OPERATE...DECEMBER 21, 1974  
CONDENSER COOLING METHOD...COOLING TOWERS  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-CONTINENT AREA  
RELIABILITY COORDINATION  
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....NORTHERN STATES POWER  
CORPORATE ADDRESS.....414 NICOLLET MALL  
MINNEAPOLIS, MINNESOTA 55401  
CONTRACTOR  
ARCHITECT/ENGINEER.....FLUOR PIONEER, INC.  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....NORTHERN STATES POWER COMPANY  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....J. HARD  
LICENSING PROJ MANAGER....D. DIANNI  
DOCKET NUMBER.....50-306  
LICENSE & DATE ISSUANCE...DPR-60, OCTOBER 29, 1974  
PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY  
MINNEAPOLIS PUBLIC LIBRARY  
300 NICOLLET MALL  
MINNEAPOLIS, MINNESOTA 55401

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON JANUARY 11-14 (88003): ROUTINE, UNANNOUNCED INSPECTION OF INSERVICE INSPECTION (ISI) ACTIVITIES INCLUDING REVIEW OF PROGRAMS (73051), PROCEDURES (73052), OBSERVATION OF WORK ACTIVITIES (73753), AND DATA REVIEW (73055), AND AN ACCUMULATOR LEAK (73052, 73753, 73765). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON NOVEMBER 15 THROUGH JANUARY 2 (87017; 87015): ROUTINE UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS, PLANT OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCES, ESF SYSTEMS, PREPARATION FOR REFUELING, TRAINING, FOLLOWUP OF LICENSEE EVENT REPORTS, MEETINGS WITH CORPORATE MANAGEMENT, AND STAFF CHANGES. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 3 THRU FEBRUARY 13, 1988 (88001) ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS, PLANT OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCES, ESF SYSTEMS, REFUELING OUTAGE ACTIVITIES, LER FOLLOWUP, EMERGENCY PLANNING, TRAINING, AND MEETINGS WITH CORPORATE MANAGEMENT. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 20 THROUGH FEBRUARY 10 (88003; 88002): SPECIAL ANNOUNCED SAFETY INSPECTION TO VERIFY THE IMPLEMENTATION OF THE ACTIONS DESCRIBED IN CONFIRMATORY ACTION LETTER (CAL) RIII-87-013, AMENDMENT 1, DATED AUGUST 18, 1987, RELATING TO YOUR LICENSED OPERATOR REQUALIFICATION PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THE COURSE OF THE INSPECTION. ONE UNRESOLVED ITEM IS IDENTIFIED.

INSPECTION SUMMARY

INSPECTION ON JANUARY 5-7 (88002): SPECIAL, ANNOUNCED FOLLOWUP INSPECTION ON ITEMS IDENTIFIED DURING THE NOVEMBER 1987 ROUTINE INSPECTION, PLUS INITIAL REVIEW OF LICENSEE INITIATIVES TO IMPROVE THE EMERGENCY PREPAREDNESS PROGRAM AT THE QUAD CITIES STATION. THE INSPECTION INVOLVED ONE NRC INSPECTOR. NO VIOLATIONS OF NRC REQUIREMENTS AND NO DEVIATIONS FROM COMMITMENTS WERE IDENTIFIED DURING THE INSPECTION.

INSPECTION ON JANUARY 11-14 (88003): INCLUDED A REVIEW OF MANAGEMENT EFFECTIVENESS; SECURITY PROGRAM AUDITS; RECORDS AND REPORTS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - VITAL AREAS; ALARM STATIONS AND AN INITIAL REVIEW OF TWO ALLEGATIONS PERTAINING TO THE FITNESS FOR DUTY OF THE CONTRACT SECURITY FORCE SITE MANAGER AND THE IMPROPER BADGING OF TWO CONTRACTORS WHICH WAS ALLEGEDLY NOT PROPERLY REPORTED. THE INSPECTION WAS CONDUCTED BY ONE NRC INSPECTOR AND WAS INITIATED DURING THE DAYSHIFT BUT INCLUDED BACKSHIFT INSPECTION ACTIVITY. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS IN THE AREAS EXAMINED DURING THE INSPECTION. THE ALLEGATIONS REVIEWED DURING THIS INSPECTION WILL REMAIN OPEN AS A RESULT OF OUR NEED TO REVIEW INFORMATION RECEIVED SUBSEQUENT TO THIS INVESTIGATION.

INSPECTION ON DECEMBER 6 THROUGH FEBRUARY 6 (87033): ROUTINE, UNANNOUNCED RESIDENT INSPECTION OF OPERATIONS, MAINTENANCE, SURVEILLANCE, LER REVIEW, ROUTINE REPORTS, ADMINISTRATIVE CONTROLS AFFECTING QUALITY, RADIATION CONTROL, AND OUTAGES. IN THE AREAS INSPECTED, TWO DEVIATIONS, ONE VIOLATION, AND ONE LICENSEE IDENTIFIED VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

REFUELING ACTIVITIES COMPLETED ON FEB. 13, 1988 AND PLANT RETURNED TO 100% POWER.

LAST IE SITE INSPECTION DATE: 01/14/88

INSPECTION REPORT NO: 88003

Report Period FEB 1988

REPORTS FROM LICENSEE

\*\*\*\*\*  
\* PRAIRIE ISLAND 2 \*  
\*\*\*\*\*

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

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1. Docket: 50-254 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: K.A. SCHMIDT (309) 654-2241 X2147

4. Licensed Thermal Power (MWT): 2511

5. Nameplate Rating (Gross MWe): 920 X 0.9 = 828

6. Design Electrical Rating (Net MWe): 789

7. Maximum Dependable Capacity (Gross MWe): 813

8. Maximum Dependable Capacity (Net MWe): 769

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>138,528.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>110,504.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,421.9</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,433.1</u>	<u>106,890.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>909.2</u>
17. Gross Therm Ener (MWH)	<u>1,646,232</u>	<u>3,432,696</u>	<u>226,743,453</u>
18. Gross Elec Ener (MWH)	<u>540,522</u>	<u>1,112,295</u>	<u>73,537,913</u>
19. Net Elec Ener (MWH)	<u>517,899</u>	<u>1,064,816</u>	<u>68,968,886</u>
20. Unit Service Factor	<u>100.0</u>	<u>99.5</u>	<u>77.2</u>
21. Unit Avail Factor	<u>100.0</u>	<u>99.5</u>	<u>77.8</u>
22. Unit Cap Factor (MDC Net)	<u>96.8</u>	<u>96.2</u>	<u>64.7</u>
23. Unit Cap Factor (DER Net)	<u>94.3</u>	<u>93.7</u>	<u>63.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.5</u>	<u>5.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>6.9</u>	<u>3,443.3</u>

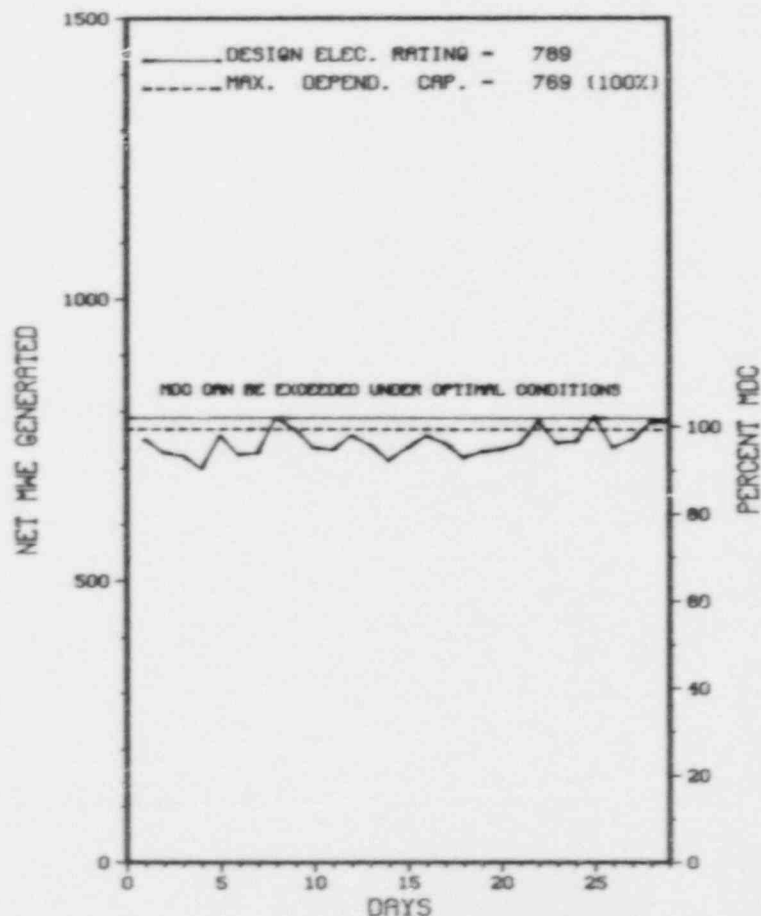
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XX  
 X QUAD CITIES 1 X  
 XXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

QUAD CITIES 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* QUAD CITIES 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

XXXXXXXXXXXX QUAD CITIES 1 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
\* SUMMARY \* OR SIGNIFICANT POWER REDUCTIONS.  
XXXXXXXXXXXX

<u>Type</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; Component</u>	
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling	H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction		4-Continued	Data Entry Sheet
	E-Operator Training		5-Reduced Load	Licensee Event Report
	& License Examination		9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* QUAD CITIES 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....ROCK ISLAND  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...20 MI NE OF  
MOLINE, ILL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...OCTOBER 18, 1971  
DATE ELEC ENER 1ST GENER...APRIL 12, 1972  
DATE COMMERCIAL OPERATE...FEBRUARY 18, 1973  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....A. MADISON  
LICENSING PROJ MANAGER.....T. ROSS  
DOCKET NUMBER.....50-254  
LICENSE & DATE ISSUANCE...DPR-29, DECEMBER 14, 1972  
PUBLIC DOCUMENT ROOM.....DIXON PUBLIC LIBRARY  
221 HENNEPIN AVENUE  
DIXON, ILLINOIS 61021

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NONE

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\*                    QUAD CITIES 1                    \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING ROUTINELY AT FULL POWER OR EGC

LAST IE SITE INSPECTION DATE: 01/14/88

INSPECTION REPORT NO: 88003

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	112380	012888	TWO CONTRACTOR PERSONNEL OVEREXPOSURES IN THE FOURTH QUARTER OF 1980 DUE TO DOSIMETER INACCURACY
88-02	011288	020288	MISSED REACTOR CORE ISOLATION COOLING LOW PRESSURE FUNCTIONAL TEST DUE TO INADEQUATE PROCEDURE
88-03	012588	021988	MO-1-1301-48 FAILED TO OPEN DURING TESTING DUE TO TORQUE SWITCH SETTING TOO CLOSE TO THE CLOSED POSITION
88-04	012688	021788	REACTOR HEAD VENT LINE OUTSIDE SAFETY ANALYSIS CRITERIA FOR ALLOWABLE STRESS DUE TO DESIGN ERROR
88-05	020188	022488	CONTROL ROOM VENTILATION ISOLATIONS DUE TO PERSONNEL ERROR AND CAUSE NOT DETERMINED

=====



1. Docket: 50-265 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: K.A. SCHMIDT (309) 654-2241 X 2147

4. Licensed Thermal Power (MWh): 2511

5. Nameplate Rating (Gross MWe): 920 X 0.9 = 828

6. Design Electrical Rating (Net MWe): 789

7. Maximum Dependable Capacity (Gross MWe): 813

8. Maximum Dependable Capacity (Net MWe): 769

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

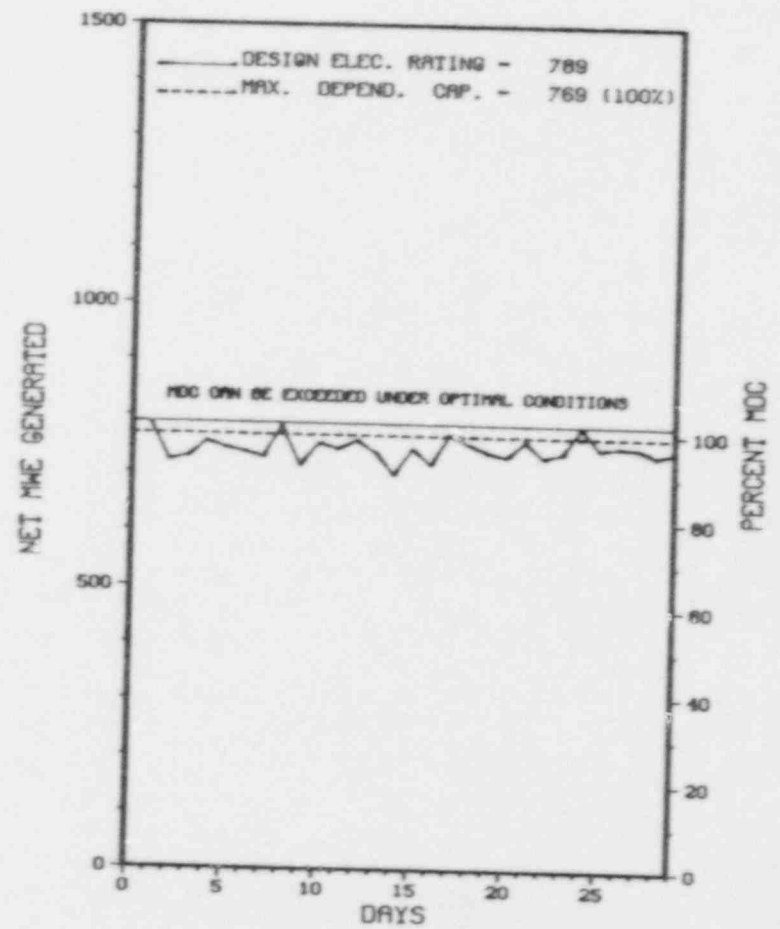
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>137,638.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,344.0</u>	<u>106,001.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,985.8</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,327.9</u>	<u>102,863.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>702.9</u>
17. Gross Therm Ener (MWH)	<u>1,671,576</u>	<u>3,095,976</u>	<u>220,466,543</u>
18. Gross Elec Ener (MWH)	<u>541,129</u>	<u>1,004,486</u>	<u>70,562,260</u>
19. Net Elec Ener (MWH)	<u>519,297</u>	<u>963,044</u>	<u>66,514,475</u>
20. Unit Service Factor	<u>100.0</u>	<u>92.2</u>	<u>74.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>92.2</u>	<u>75.2</u>
22. Unit Cap Factor (MDC Net)	<u>97.0</u>	<u>87.0</u>	<u>62.8</u>
23. Unit Cap Factor (DER Net)	<u>94.6</u>	<u>84.8</u>	<u>61.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>7.8</u>	<u>8.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>112.1</u>	<u>5,395.3</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Startup Date: N/A

XX  
 \* QUAD CITIES 2 \*  
 XX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

QUAD CITIES 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXX  
X QUAD CITIES 2 X  
XXX

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
-----	------	------	-------	--------	--------	------------	------------------	---

NONE

XXXXXXXXXXXX QUAD CITIES 2 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
\* SUMMARY \* OR SIGNIFICANT POWER REDUCTIONS.  
XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* QUAD CITIES 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....ROCK ISLAND  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...20 MI NE OF  
MOLINE, ILL  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...APRIL 26, 1972  
DATE ELEC ENER 1ST GENER...MAY 23, 1972  
DATE COMMERCIAL OPERATE...MARCH 10, 1973  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....A. MADISON  
LICENSING PROJ MANAGER...T. ROSS  
DOCKET NUMBER.....59-265  
LICENSE & DATE ISSUANCE...DPR-30, DECEMBER 14, 1972  
PUBLIC DOCUMENT ROOM.....DIXON PUBLIC LIBRARY  
221 HENNEPIN AVENUE  
DIXON, ILLINOIS 61021

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NONE

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

Report Period FEB 1986

INSPECTION STATUS - (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* QUAD CITIES 2 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

NOW OPERATING ROUTINELY AT FULL POWER/ OR ON ECONOMIC GENERATION CONTROL

LAST IE SITE INSPECTION DATE: 01/14/88

INSPECTION REPORT NO: 88003

REPORTS FROM LICENSEE

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-20	121087	010488	UNIT TWO REACTOR SCRAM DUE TO FAILURE OF TURBINE MASTER TRIP SOLENOID VALVE
87-21	123087	011988	STANDBY COOLANT SUPPLY SYSTEM OUTSIDE SAFETY ANALYSIS REPORT DUE TO POSITION INDICATION SHORT CIRCUIT
88-01	011188	012788	REACTOR SCRAM DUE TO TURBINE/GENERATOR LOAD REJECT - CAUSE UNDETERMINED

=====

1. Docket: 50-312                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: R. MILLER (916) 452-3211 X4477

4. Licensed Thermal Power (GWT):                      2772

5. Nameplate Rating (Gross MWe):                      1070 X 0.9 = 963

6. Design Electrical Rating (Net MWe):                      918

7. Maximum Dependable Capacity (Gross MWe):                      917

8. Maximum Dependable Capacity (Net MWe):                      873

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NRC LETTER DATED 12/25/85.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>112,825.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>52,565.0</u>
14. Rx Reserve Shutdown Hrs	<u>.0</u>	<u>.0</u>	<u>10,647.7</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>50,563.8</u>
16. Unit Reserve Shutdown Hrs	<u>.0</u>	<u>.0</u>	<u>1,210.2</u>
17. Gross Therm Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>124,228,535</u>
18. Gross Elec Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>41,528,149</u>
19. Net Elec Ener (MWH)	<u>-7,173</u>	<u>-13,841</u>	<u>38,975,359</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>44.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>45.7</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>39.6</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>37.6</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>44.5</u>
25. Forced Outage Hours	<u>696.0</u>	<u>1,440.0</u>	<u>40,345.5</u>

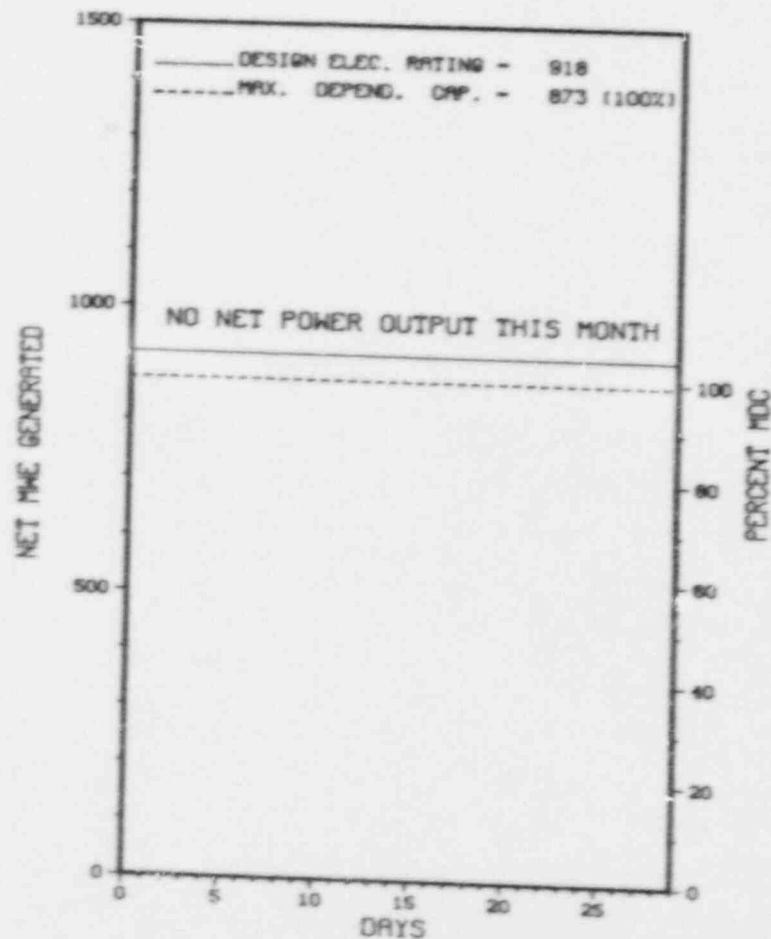
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: 03/20/88

\*\*\*\*\*  
\* RANCHO SECO 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RANCHO SECO 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* RANCHO SECO 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	12/26/85	F	696.0	D	4	85-25	CB	INSTRU	REACTOR TRIP DUE TO HIGH RCS PRESSURE TRIP PRECEDED BY A TOTAL LOSS OF ICS POWER.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 RANCHO SECO REMAINED SHUTDOWN IN FEBRUARY IN ACCORDANCE WITH  
 NRC LETTER DATED 12/26/85.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* RANCHO SECO 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CALIFORNIA  
COUNTY.....SACRAMENTO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI SE OF  
SACRAMENTO, CA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...SEPTEMBER 16, 1974  
DATE ELEC ENER 1ST GENER...OCTOBER 13, 1974  
DATE COMMERCIAL OPERATE...APRIL 17, 1975  
CONDENSER COOLING METHOD...COOLING TOWERS  
CONDENSER COOLING WATER...FOLSOM CANAL  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....SACRAMENTO MUN. UTIL. DISTRICT  
CORPORATE ADDRESS.....6201 S STREET P.O. BOX 15830  
SACRAMENTO, CALIFORNIA 95813  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....A. DANGELO  
LICENSING PROJ MANAGER.....G. KALMAN  
DOCKET NUMBER.....50-312  
LICENSE & DATE ISSUANCE...DPR-54, AUGUST 16, 1974  
PUBLIC DOCUMENT ROOM.....BUSINESS AND MUNICIPAL DEPARTMENT  
SACRAMENTO LIBRARY  
828 I STREET  
SACRAMENTO, CALIFORNIA 95814

INSPECTION SUMMARY

I N S P E C T I O N S T A T U S

- + INSPECTION ON DECEMBER 7, 1987 - FEBRUARY 18, 1988 (REPORT NO. 50-312/87-40) HEADQUARTERS' REPORT - INSPECTION CONTINUING - TO BE REPORTED AT A LATER DATE.
- + INSPECTION ON DECEMBER 5, 1987 - JANUARY 29, 1988 (REPORT NO. 50-312/87-44) INSPECTION CONTINUING; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON DECEMBER 28, 1987 - JANUARY 28, 1988 (REPORT NO. 50-312/87-49) ROUTINE, UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR INVOLVING FOLLOWUP ON PREVIOUS NRC AND LICENSEE IDENTIFIED OPEN ITEMS. A LIMITED ASSESSMENT OF SPECIFIC AREAS OF THE FIRE PROTECTION PROGRAM IMPLEMENTATION WAS MADE. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.  
RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.
- + INSPECTION ON JANUARY 4-27, 1988 (REPORT NO. 50-312/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-312/88-04) AREAS INSPECTED: MANAGEMENT EFFECTIVENESS-SECURITY PROGRAM; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; LOCKS, KEYS AND COMBINATIONS; PHYSICAL BARRIERS-VITAL AREAS; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL-PERSONNEL; ACCESS CONTROL-VEHICLES; DETECTION AIDS-PROTECTED AREA; FOLLOWUP ITEMS FROM PREVIOUS SECURITY INSPECTIONS; FOLLOWUP ON INFORMATION NOTICES 86-106 AND 87-64; AND INDEPENDENT INSPECTION EFFORT. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

INSPECTION SUMMARY

RESULTS: THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED DURING THIS INSPECTION EXCEPT FOR THE FOLLOWING ITEMS: ACCESS CONTROL-PERSONNEL: FAILURE TO DENY SITE ACCESS TO UNAUTHORIZED PERSONNEL; AND FAILURE TO ADEQUATELY REVALIDATE SECURITY BADGES EVERY 31 DAYS.

+ INSPECTION ON FEBRUARY 4 - MARCH 18, 1988 (REPORT NO. 50-312/88-05) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 24 - FEBRUARY 19, 1988 (REPORT NO. 50-312/88-06) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY ONE REGIONALLY BASED INSPECTOR OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED INSPECTOR ITEMS, LICENSEE EVENT REPORTS, FOLLOWUP ON ITEMS OF NONCOMPLIANCE, FOLLOWUP ON EASTRP CORRECTIVE ACTION, AND TMI ACTION ITEMS FOLLOWUP. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION, FAILURE TO REMOVE EXPIRED SHELF LIFE ITEMS FROM STOCK, WAS IDENTIFIED.

+ INSPECTION ON FEBRUARY 5-8, 1988 (REPORT NO. 50-312/88-07) AREAS INSPECTED: SPECIAL UNANNOUNCED INSPECTION BY A REGIONALLY BASED NRC INSPECTOR IN RESPONSE TO THE LICENSEE'S FEBRUARY 4, 1988, REPORT OF A POTENTIAL EXPOSURE TO THE EXTREMITY OF A WORKER IN EXCESS OF THE REGULATORY LIMIT. THE PURPOSE OF THE INSPECTION WAS TO DETERMINE IF THE LICENSEE WAS DEDICATING SUFFICIENT RESOURCES TO EVALUATE THE POTENTIAL EXPOSURES FROM SIMILAR RADIATION SOURCES. AND TO PERFORM A PRELIMINARY EVALUATION OF THE EVENT. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: THE FINDINGS OF THIS INSPECTION WILL BE IDENTIFIED AS UNRESOLVED PENDING THE COMPLETION OF THE LICENSEE'S INVESTIGATION.

+ INSPECTION ON MARCH 7-11, 1988 (REPORT NO. 50-312/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

CONTRARY TO SECTION 1.7.1 OF THE APPROVED SECURITY PLAN, THE LICENSEE FAILED TO DENY ACCESS TO UNAUTHORIZED PERSONNEL. CONTRARY TO 10 CFR 20.201(B), PLANT TECHNICAL SPECIFICATION 6.5.1.1.1.A, AND PLANT PROCEDURE HPP-074, RADIOLOGICAL CONTROLS OF TOOLS AND EQUIPMENT, REVISION 12, ON SEPTEMBER 14, 1987, THE LICENSEE RELEASED FROM THE RADIATION CONTROL AREA AND SUBSEQUENTLY RELEASED OFFSITE AN INTERNALLY CONTAMINATED DRY STORAGE CANISTER-MOCKUP WITH CONTAMINATION LEVELS UP TO 190,000 DISINTEGRATIONS PER MINUTE PER 100 SQUARE CENTIMETERS (DPM/100 CM2), WHICH IS APPROXIMATELY EQUIVALENT TO 19,000 CCPM/100 CM2.  
(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ PLANT IS PERFORMING HOT SHUTDOWN TESTING AND WILL BE PERFORMING STEPPED INCREASES TO COMMERCIAL OPERATION. TDI EDG TESTING IS ALSO IN PROGRESS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

+ RESTART TESTING IS BEING MONITORED BY NRR AND REGION V PRIOR TO RETURN TO COMMERCIAL OPERATION.



Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                    RANCHO SECO 1                    \*  
\*\*\*\*\*

OTHER ITEMS

ENFORCEMENT CONFERENCE WAS HELD ON MAY 16, 1986, ON VIOLATIONS RELATED TO THE DECEMBER 26, 1985, EVENT AND FOLLOWUP ACTIVITIES.

NRC SALP BOARD MEETING WAS HELD ON AUGUST 12, 1986.

PLANT STATUS:

+ PLANT IS IN HOT SHUTDOWN AND IS ANTICIPATED TO PROCEED TO REACTOR CRITICALITY AFTER OBTAINING COMMISSION APPROVAL - COMMISSION MEETING TENTATIVELY SCHEDULED FOR MARCH 22, 1988.

LAST IE SITE INSPECTION DATE: 02/04 - 03/18/88+

INSPECTION REPORT NO: 50-312/88-05+

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE

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1. Docket: 50-458 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: R. H. MARTIN (504) 635-6094 X4836

4. Licensed Thermal Power (MWt): 2894

5. Nameplate Rating (Gross MWe): 2894

6. Design Electrical Rating (Net MWe): 936

7. Maximum Dependable Capacity (Gross MWe): 936

8. Maximum Dependable Capacity (Net MWe): 936

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>19,656.0</u>
13. Hours Reactor Critical	<u>611.4</u>	<u>1,272.7</u>	<u>12,986.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>584.5</u>	<u>1,215.3</u>	<u>11,747.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,622,576</u>	<u>3,388,149</u>	<u>28,858,033</u>
18. Gross Elec Ener (MWH)	<u>560,619</u>	<u>1,174,099</u>	<u>9,794,973</u>
19. Net Elec Ener (MWH)	<u>525,892</u>	<u>1,102,782</u>	<u>9,127,987</u>
20. Unit Service Factor	<u>84.0</u>	<u>84.4</u>	<u>59.8</u>
21. Unit Avail Factor	<u>84.0</u>	<u>84.4</u>	<u>59.8</u>
22. Unit Cap Factor (MDC Net)	<u>80.7</u>	<u>81.8</u>	<u>49.6</u>
23. Unit Cap Factor (DER Net)	<u>80.7</u>	<u>81.8</u>	<u>49.6</u>
24. Unit Forced Outage Rate	<u>12.1</u>	<u>13.7</u>	<u>13.0</u>
25. Forced Outage Hours	<u>10.3</u>	<u>193.5</u>	<u>1,754.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

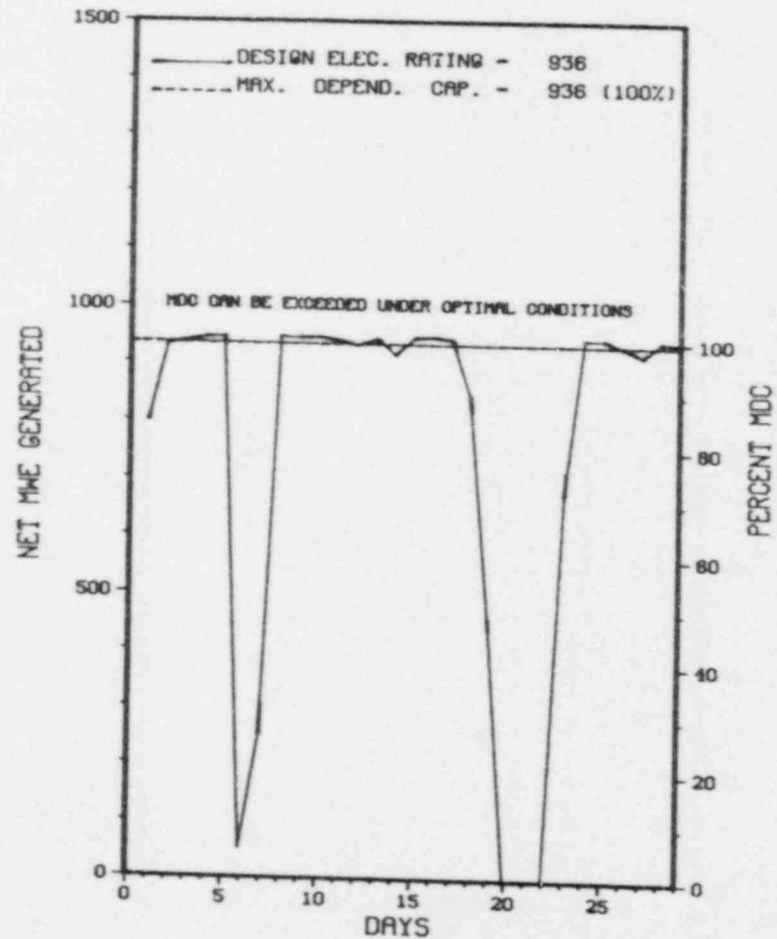
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \* RIVER BEND 1 \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RIVER BEND 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* RIVER BEND 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-03	02/06/88	S	31.2	B	2				TO REPAIR GENERATOR COUPLING SEALS.
88-04	02/19/88	F	54.1	A	2	88-006			RECIRC PUMP A TRIPPED DUE TO MOISTURE INTRUSION.
88-05	02/21/88	F	26.2	F	2	88-007			EXCEEDED 40% FIRST STAGE TURBINE PRESSURE WHILE PERFORMING TURBINE SHELL WARMING RESULTING IN TURBINE TRIP AND REACTOR SCRAM.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 RIVER BEND STATION 1 INCURRED 3 OUTAGES IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* RIVER BEND 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....LOUISIANA  
COUNTY.....WEST FELICIANA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...24 MI NNW OF  
BATON ROUGE, LA  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...OCTOBER 31, 1985  
DATE ELEC ENER 1ST GENER...DECEMBER 3, 1985  
DATE COMMERCIAL OPERATE...JUNE 16, 1986  
CONDENSER COOLING METHOD...MDCT  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....GULF STATES UTILITIES  
CORPORATE ADDRESS.....P.O. BOX 2951  
BEAUMONT, LOUISIANA 77704  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV  
IE RESIDENT INSPECTOR.....D. CHAMBERLAIN  
LICENSING PROJ MANAGER....W. PAULSON  
DOCKET NUMBER.....50-458  
LICENSE & DATE ISSUANCE...NPF-47, NOVEMBER 20, 1985  
PUBLIC DOCUMENT ROOM.....GOVERNMENT DOCUMENTS DEPARTMENT  
TROY H. MIDDLETON LIBRARY  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE, LOUISIANA 70803

INSPECTION SUMMARY

INFO. NOT SUPPLIED BY REGION

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

\*SYSTEMS AND COMPONENT PROBLEMS:

INFO. NOT SUPPLIED BY REGION

FACILITY ITEMS (PLANS AND PROCEDURES):

INFO. NOT SUPPLIED BY REGION

MANAGERIAL ITEMS:

INFO. NOT SUPPLIED BY REGION

I N S P E C T I O N   S T A T U S



1. Docket: 50-261 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: V.E. FRAZIER (803) 383-4524 X 1220

4. Licensed Thermal Power (MWh): 2300

5. Nameplate Rating (Gross MWe): 854 X 0.9 = 769

6. Design Electrical Rating (Net MWe): 700

7. Maximum Dependable Capacity (Gross MWe): 700

8. Maximum Dependable Capacity (Net MWe): 665

9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any:         

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>148,950.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>680.9</u>	<u>106,210.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,159.6</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>649.2</u>	<u>103,673.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>23.2</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>1,426,721</u>	<u>209,579,282</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>480,326</u>	<u>67,863,663</u>
19. Net Elec Ener (MWH)	<u>-2,311</u>	<u>454,588</u>	<u>64,132,517</u>
20. Unit Service Factor	<u>.0</u>	<u>45.1</u>	<u>69.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>45.1</u>	<u>69.6</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>47.5</u>	<u>64.7</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>45.1</u>	<u>61.5</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>54.9</u>	<u>13.9</u>
25. Forced Outage Hours	<u>696.0</u>	<u>790.8</u>	<u>10,993.5</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

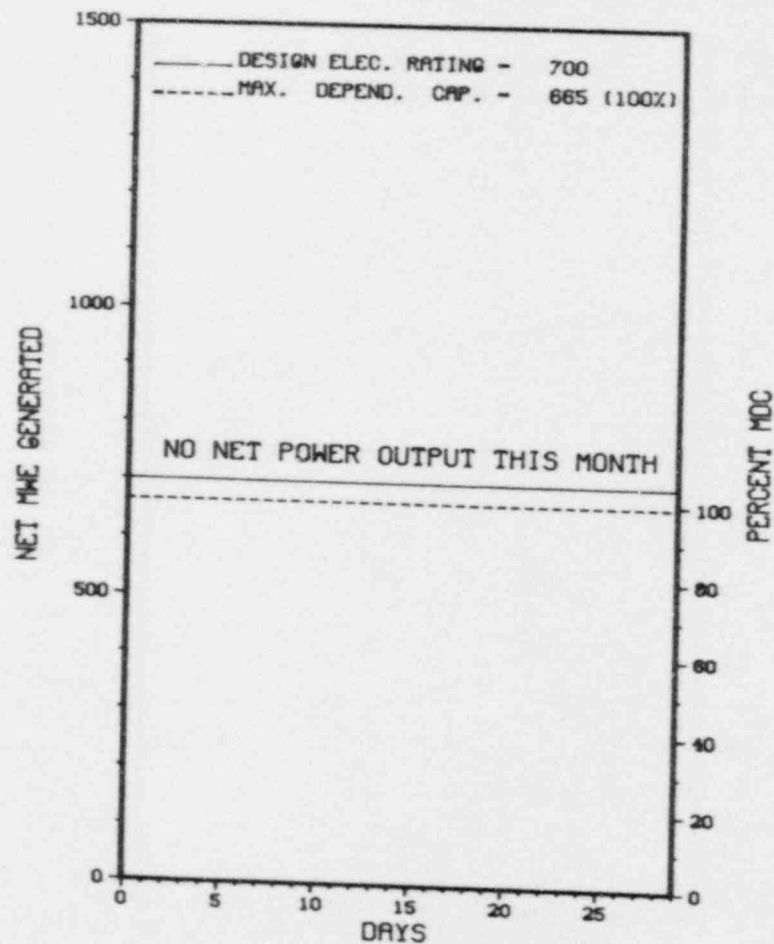
NONE

27. If Currently Shutdown Estimated Startup Date: 03/05/88

\*\*\*\*\*  
\* ROBINSON 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ROBINSON 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* ROBINSON 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
0102	01/29/88	F	696.0	D	4	88-003	IC	BATTERY	THE UNIT WAS TAKEN TO COLD SHUTDOWN ON 1/29/88 FOR REVIEW OF UNANALYZED SINGLE FAILURE THAT COULD TAKE TWO SAFETY INJECTION PUMPS OUT OF SERVICE. TECHNICAL SPECIFICATION 3.0 REQUIRES HOT SHUTDOWN WITHIN 8 HOURS FOLLOWED BY COLD SHUTDOWN WITHIN 30 HOURS.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 ROBINSON 2 REMAINED SHUTDOWN IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* ROBINSON 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....SOUTH CAROLINA  
COUNTY.....DARLINGTON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI NW OF  
HARTSVILLE, SC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...SEPTEMBER 20, 1970  
DATE ELEC ENER 1ST GENER...SEPTEMBER 26, 1970  
DATE COMMERCIAL OPERATE...MARCH 7, 1971  
CONDENSER COOLING METHOD...RECIRCULATION  
CONDENSER COOLING WATER...ROBINSON IMPOUNDMENT  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....CAROLINA POWER & LIGHT  
CORPORATE ADDRESS.....411 FAYETTEVILLE STREET  
RALEIGH, NORTH CAROLINA 27601  
CONTRACTOR  
ARCHITECT/ENGINEER.....EBASCO  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....EBASCO  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....P. KRUG  
LICENSING PROJ MANAGER.....R. LO  
DOCKET NUMBER.....50-261  
LICENSE & DATE ISSUANCE...DPR-23, SEPTEMBER 23, 1970  
PUBLIC DOCUMENT ROOM.....HARTSVILLE MEMORIAL LIBRARY  
220 N. FIFTH ST.  
HARTSVILLE, SOUTH CAROLINA 29550

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 11 - JANUARY 10 (87-39): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, PHYSICAL PROTECTION, SURVEILLANCE OBSERVATION, MAINTENANCE OBSERVATION, ESF SYSTEM WALKDOWN, COLD WEATHER PREPARATIONS, ONSITE FOLLOWUP OF EVENTS AND SUBSEQUENT WRITTEN REPORTS, ONSITE REVIEW COMMITTEE, AND PREPARATION FOR REFUELING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED WITHIN THE AREAS INSPECTED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.



1. Docket: 50-272                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: BRYAN W. GORMAN (609) 339-5400

4. Licensed Thermal Power (Mwt):                      3411

5. Nameplate Rating (Gross MWe):                      1300 X 0.9 = 1170

6. Design Electrical Rating (Net MWe):                      1115

7. Maximum Dependable Capacity (Gross MWe):                      1149

8. Maximum Dependable Capacity (Net MWe):                      1106

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):                     

11. Reasons for Restrictions, If Any:                       
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>93,529.0</u>
13. Hours Reactor Critical	<u>141.2</u>	<u>141.2</u>	<u>57,836.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,088.4</u>
15. Hrs Generator On-Line	<u>63.7</u>	<u>63.7</u>	<u>55,855.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>117,089</u>	<u>117,089</u>	<u>172,588,302</u>
18. Gross Elec Ener (MWH)	<u>32,410</u>	<u>32,410</u>	<u>57,224,698</u>
19. Net Elec Ener (MWH)	<u>16,845</u>	<u>8,187</u>	<u>54,404,896</u>
20. Unit Service Factor	<u>9.2</u>	<u>4.4</u>	<u>59.7</u>
21. Unit Avail Factor	<u>9.2</u>	<u>4.4</u>	<u>59.7</u>
22. Unit Cap Factor (MDC Net)	<u>2.2</u>	<u>.5</u>	<u>52.6</u>
23. Unit Cap Factor (DER Net)	<u>2.2</u>	<u>.5</u>	<u>52.2</u>
24. Unit Forced Outage Rate	<u>21.8</u>	<u>21.8</u>	<u>25.6</u>
25. Forced Outage Hours	<u>17.8</u>	<u>17.8</u>	<u>19,477.6</u>

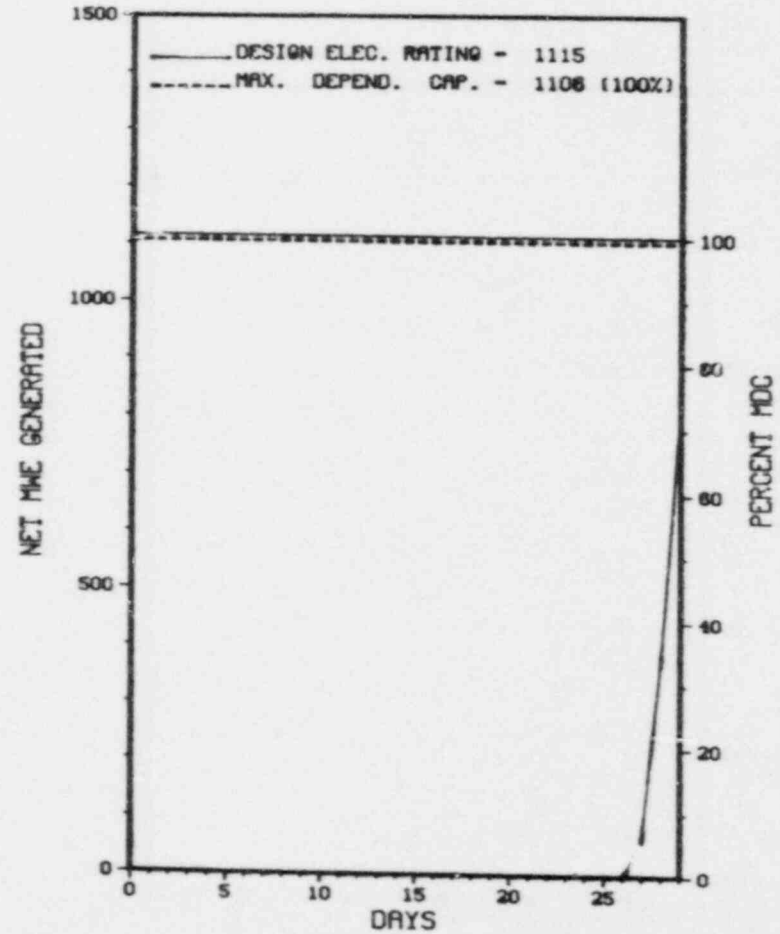
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
X                      SALEM 1                      X  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SALEM 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* SALEM 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
001	01/08/88	S	560.0	B	9		CA	CRDRVE	CONTROL ROD DRIVE MECHANISM LEAK.
0002	02/24/88	S	54.5	B	9		CA	CRDRVE	CONTROL ROD MAGNETIC JACK DRIVE REPLACEMENT.
0003	02/26/88	F	12.2	A	1		HA	INSTRU	MAIN TURBINE EH CONTROL PROBLEM.
0004	02/27/88	F	5.6	A	1		HA	INSTRU	MAIN TURBINE EH CONTROL PROBLEM.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 SALEM 1 ENTERED MONTH SHUTDOWN FOR CONTROL ROD DRIVE MECHANISM LEAK. RETURNED TO POWER. SUBSEQUENTLY EXPERIENCED 3 OUTAGES.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X SALEM 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

FACILITY DATA

Report Period: FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW JERSEY  
COUNTY.....SALEM  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...20 MI S OF  
WILMINGTON, DEL  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...DECEMBER 11, 1976  
DATE ELEC ENER 1ST GENER...DECEMBER 25, 1976  
DATE COMMERCIAL OPERATE...JUNE 30, 1977  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...DELAWARE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS  
CORPORATE ADDRESS.....80 PARK PLACE  
NEWARK, NEW JERSEY 07101  
CONTRACTOR  
ARCHITECT/ENGINEER.....PUBLIC SERVICES & GAS CO.  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....T. LINVILLE  
LICENSING PROJ MANAGER.....D. FISCHER  
DOCKET NUMBER.....50-272  
LICENSE & DATE ISSUANCE...DPR-70, DECEMBER 1, 1976  
PUBLIC DOCUMENT ROOM.....SALEM FREE PUBLIC LIBRARY  
112 WEST BROADWAY  
SALEM, NEW JERSEY 08079

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.



1. Docket: 50-311                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: BRYAN W. GORMAN (609) 339-5400

4. Licensed Thermal Power (MWT):                      3411

5. Nameplate Rating (Gross MWe):                      1162

6. Design Electrical Rating (Net MWe):                      1115

7. Maximum Dependable Capacity (Gross MWe):                      1149

8. Maximum Dependable Capacity (Net MWe):                      1106

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>55,945.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>33,818.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,533.6</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,436.3</u>	<u>32,733.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,298,118</u>	<u>4,788,944</u>	<u>101,554,673</u>
18. Gross Elec Ener (MWH)	<u>762,980</u>	<u>1,594,060</u>	<u>33,223,530</u>
19. Net Elec Ener (MWH)	<u>732,279</u>	<u>1,530,929</u>	<u>31,550,397</u>
20. Unit Service Factor	<u>100.0</u>	<u>99.7</u>	<u>58.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>99.7</u>	<u>58.5</u>
22. Unit Cap Factor (MDC Net)	<u>95.1</u>	<u>96.1</u>	<u>51.0</u>
23. Unit Cap Factor (DER Net)	<u>94.4</u>	<u>95.3</u>	<u>50.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.3</u>	<u>32.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>3.7</u>	<u>15,521.6</u>

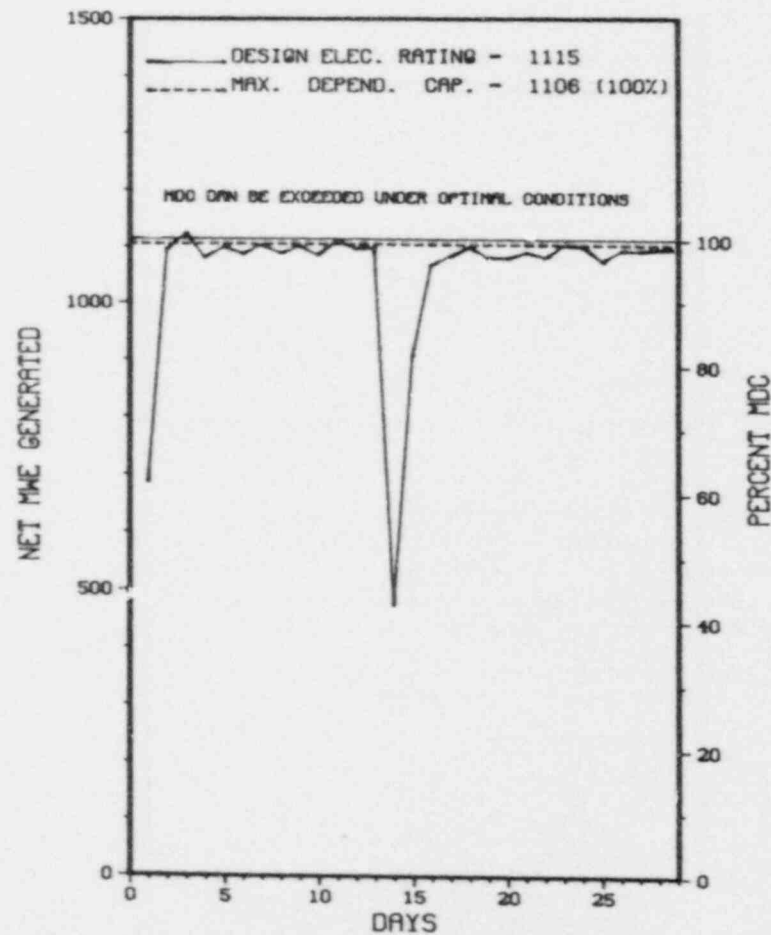
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X                      SALEM 2                      X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SALEM 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X SALEM 2 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
0021	02/01/88	F	0.0	A	5		CH	INSTRU	STEAM GENERATOR FEED PUMP LOCAL CONTROLS.
0031	02/14/88	F	0.0	H	5		WE	FILTER	CIRCULATING WATER INTAKE PROBLEM.
0032	02/14/88	F	0.0	H	5		HC	HTEXCH	HIGH CONDENSER BACK PRESSURE.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X SUMMARY X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 SALEM 2 INCURRED 3 POWER REDUCTIONS IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* SALEM 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....NEW JERSEY  
COUNTY.....SALEM  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...20 MI S OF  
WILMINGTON, DEL  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 8, 1980  
DATE ELEC ENER 1ST GENER...JUNE 3, 1981  
DATE COMMERCIAL OPERATE...OCTOBER 13, 1981  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...DELAWARE RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS  
CORPORATE ADDRESS.....80 PARK PLACE  
NEWARK, NEW JERSEY 07101  
CONTRACTOR  
ARCHITECT/ENGINEER.....PUBLIC SERVICES & GAS CO.  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....T. LINVILLE  
LICENSING PROJ MANAGER.....D. FISCHER  
DOCKET NUMBER.....50-311  
LICENSE & DATE ISSUANCE...DPR-75, MAY 20, 1981  
PUBLIC DOCUMENT ROOM.....SALEM FREE PUBLIC LIBRARY  
112 WEST BROADWAY  
SALEM, NEW JERSEY 08079

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.





Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* SAN ONOFRE 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
117	02/14/88	S	376.9	B	1				MID-CYCLE MAINTENANCE OUTAGE.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
SAN ONOFRE 1 ENDED MONTH SHUTDOWN FOR MID-CYCLE MAINTENANCE OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)

\*\*\*\*\*  
\* SAN ONOFRE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....CALIFORNIA  
COUNTY.....SAN DIEGO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI S OF  
SAN CLEMENTE, CA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JUNE 14, 1967  
DATE ELEC ENER 1ST GENER...JULY 16, 1967  
DATE COMMERCIAL OPERATE...JANUARY 1, 1968  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...PACIFIC OCEAN  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY  
LICENSEE.....SOUTHERN CALIFORNIA EDISON  
CORPORATE ADDRESS.....2244 WALNUT GROVE AVENUE  
ROSEMead, CALIFORNIA 91770  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....R. HUEY  
LICENSING PROJ MANAGER.....C. TRAMMELL  
DOCKET NUMBER.....50-206  
LICENSE & DATE ISSUANCE...DPR-13, MARCH 27, 1967  
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF CALIFORNIA  
GENERAL LIBRARY  
IRVINE, CA. 92713

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

- + INSPECTION ON NOVEMBER 22, 1987 - JANUARY 20, 1988 (REPORT NO. 50-206/87-29) AREAS INSPECTED: ROUTINE RESIDENT INSPECTION OF OPERATIONS PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, EVALUATION OF PLANT TRIPS AND EVENTS, MONTHLY SURVEILLANCE ACTIVITIES, MONTHLY MAINTENANCE ACTIVITIES, REFUELING ACTIVITIES, INDEPENDENT INSPECTION, LICENSEE EVENT REPORTS REVIEW, AND FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.  
RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.
- + INSPECTION ON JANUARY 4 - FEBRUARY 5, 1988 (REPORT NO. 50-206/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON JANUARY 10 - FEBRUARY 27, 1988 (REPORT NO. 50-206/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON JANUARY 19 - FEBRUARY 5, 1988 (REPORT NO. 50-206/88-04) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON UNRESOLVED AND OPEN ITEMS; ALLEGATION FOLLOWUP; SOLID, LIQUID AND GASEOUS WASTE; TRANSPORTATION; FACILITIES AND EQUIPMENT; OCCUPATIONAL EXPOSURE DURING EXTENDED OUTAGES; AND INCLUDING TOURS OF THE LICENSEE'S FACILITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.  
RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.
- + INSPECTION ON JANUARY 26-29, 1988 (REPORT NO. 50-206/88-05) AREAS INSPECTED: UNANNOUNCED, REACTIVE FOLLOWUP INSPECTION ON NINE



Report Period FEB 1988

R E P O R T S F R O M L I C E N S E E

XX  
\* SAN ONOFRE 1 \*  
XX

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
-----			
NONE			
=====			

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1. Docket: 50-361                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: E. R. SIACOR (714) 368-6225

4. Licensed Thermal Power (Mwt):                      3390

5. Nameplate Rating (Gross MWe):                      1127

6. Design Electrical Rating (Net MWe):                      1070

7. Maximum Dependable Capacity (Gross MWe):                      1127

8. Maximum Dependable Capacity (Net MWe):                      1070

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>40,009.0</u>
13. Hours Reactor Critical	<u>695.0</u>	<u>1,440.0</u>	<u>27,232.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,426.6</u>	<u>26,612.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,508,517</u>	<u>4,718,013</u>	<u>85,684,436</u>
18. Gross Elec Ener (MWh)	<u>811,450</u>	<u>1,429,073</u>	<u>28,891,647</u>
19. Net Elec Ener (MWh)	<u>775,524</u>	<u>1,554,759</u>	<u>27,343,631</u>
20. Unit Service Factor	<u>100.0</u>	<u>99.1</u>	<u>66.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>99.1</u>	<u>66.5</u>
22. Unit Cap Factor (MDC Net)	<u>104.1</u>	<u>100.9</u>	<u>63.9</u>
23. Unit Cap Factor (DER Net)	<u>104.1</u>	<u>100.9</u>	<u>63.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>4.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>1,183.5</u>

25. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

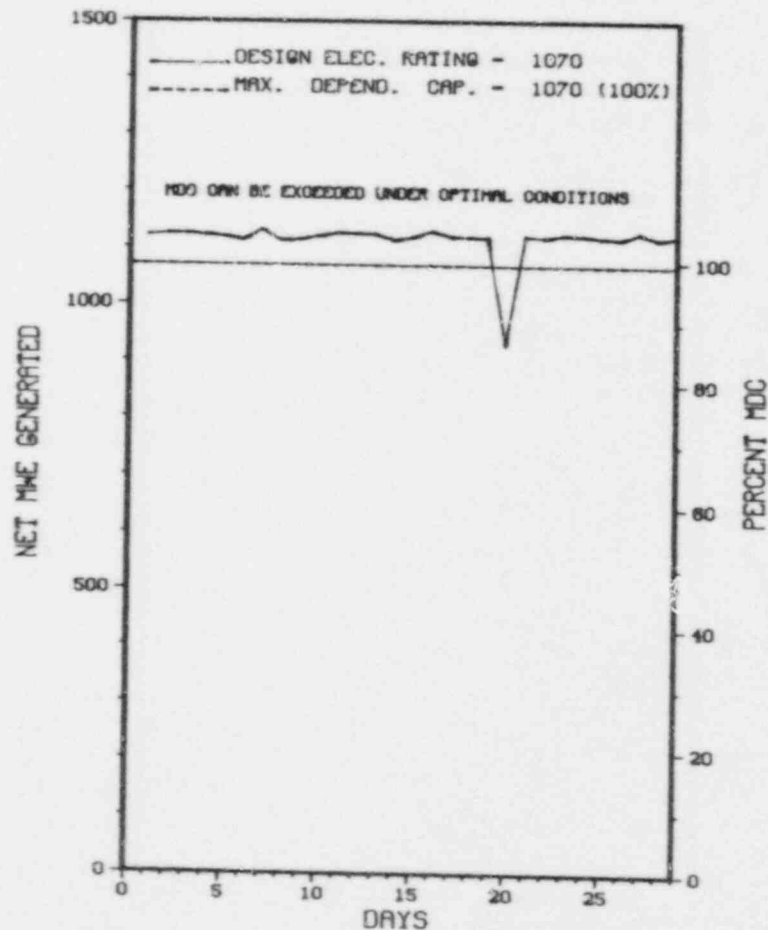
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \*                      SAN ONOFRE 2                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* SAN ONOFRE 2 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
-----	------	------	-------	--------	--------	------------	------------------	---

NONE

XXXXXXXXXXXX SAN ONOFRE 2 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
\* SUMMARY \* OR SIGNIFICANT POWER REDUCTIONS.  
XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* SAN ONOFRE 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CALIFORNIA  
COUNTY.....SAN DIEGO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI S OF  
SAN CLEMENTE, CA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JULY 26, 1982  
DATE ELEC ENER 1ST GENER...SEPTEMBER 20, 1982  
DATE COMMERCIAL OPERATE...AUGUST 8, 1983  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...PACIFIC OCEAN  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....SOUTHERN CALIFORNIA EDISON  
CORPORATE ADDRESS.....P.O. BOX 890  
ROSEMEAD, CALIFORNIA 91770  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC COM (ENG VERSION)

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....R. HUEY  
LICENSING PROJ MANAGER.....D. HICKMAN  
DOCKET NUMBER.....50-361  
LICENSE & DATE ISSUANCE...NPF-10, SEPTEMBER 7, 1982  
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF CALIFORNIA  
GENERAL LIBRARY  
IRVINE, CA. 92713

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON NOVEMBER 22, 1987 - JANUARY 20, 1988 (REPORT NO. 50-361/87-31) AREAS INSPECTED: ROUTINE RESIDENT INSPECTION OF OPERATIONS PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, EVALUATION OF PLANT TRIPS AND EVENTS, MONTHLY SURVEILLANCE ACTIVITIES, MONTHLY MAINTENANCE ACTIVITIES, REFUELING ACTIVITIES, INDEPENDENT INSPECTION, LICENSEE EVENT REPORTS REVIEW, AND FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: OF THE AREAS EXAMINED, ONE VIOLATION WAS IDENTIFIED INVOLVING IMPROPER REPORTING OF PLANT OPERATION UNDER CONDITIONS PROHIBITED BY THE PLANT TECHNICAL SPECIFICATIONS.

+ INSPECTION ON JANUARY 4 - FEBRUARY 5, 1988 (REPORT NO. 50-361/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 10 - FEBRUARY 27, 1988 (REPORT NO. 50-361/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 19 - FEBRUARY 5, 1988 (REPORT NO. 50-361/88-04) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON UNRESOLVED AND OPEN ITEMS; ALLEGATION FOLLOWUP; SOLID, LIQUID AND GASEOUS WASTE; TRANSPORTATION; FACILITIES AND EQUIPMENT; AND INCLUDING TOURS OF THE LICENSEE'S FACILITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JANUARY 26-29, 1988 (REPORT NO. 50-361/88-05) AREAS INSPECTED: UNANNOUNCED, REACTIVE FOLLOWUP INSPECTION ON NINE  
PAGE 2-368

INSPECTION SUMMARY

OPEN ITEMS IDENTIFIED DURING PREVIOUS EMERGENCY PREPAREDNESS INSPECTIONS. IN ADDITION, AS A RESULT OF A RECENT EMERGENCY PLAN REVISION REVIEW, FOLLOWUP DISCUSSIONS WERE HELD REGARDING THE EMERGENCY PREPAREDNESS DRILL PROGRAM. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-361/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 8-11, 1988 (REPORT NO. 50-361/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 2, 1988 (REPORT NO. 50-361/88-08) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ THE LICENSEE INITIATED TROUBLESHOOTING OF THE SAFETY INJECTION LOGIC MATRIX AS A RESULT OF THE ACTUATION THAT OCCURRED ON FEBRUARY 19, 1988. PRINCIPAL SUSPICION CENTERED ON THE MATRIX TEST PUSHBUTTON AND THE TEST POWER SUPPLY SINCE THESE WERE THE COMPONENTS WHICH AFFECT MORE THAN ONE LOGIC TRAIN. A SLIGHTLY LOOSE TERMINAL WAS FOUND ON EACH, BUT NO OTHER CLEAR INDICATION COULD BE FOUND. THE LICENSEE ALSO REPLACED THE MATRIX TEST PUSHBUTTON AND PERFORMED A BENCH TEST OF THE COMPONENT. HOWEVER, THE TEST RESULTS WERE INCONCLUSIVE. THE PUSHBUTTON WILL BE SENT TO A CONSULTANTS TEST LABORATORY FOR FURTHER EXAMINATION.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE UNIT CONTINUED FULL POWER OPERATION DURING MOST OF FEBRUARY. ON FEBRUARY 19, 1988, AN INADVERTENT SAFETY INJECTION ACTUATION OCCURRED WHILE TESTING OF THE ACTUATION LOGIC MATRIX WAS IN PROGRESS. THE UNIT WAS AT FULL POWER AT THE TIME OF THE EVENT. THE OPERATORS MANUALLY TRIPPED THE UNIT AS PRESCRIBED BY PLANT PROCEDURES FOR INADVERTENT SAFETY INJECTION ACTUATION. THE LICENSEE PERFORMED TROUBLESHOOTING OF THE LOGIC MATRIX AND RESTARTED THE UNIT ON FEBRUARY 21, 1988.

LAST IE SITE INSPECTION DATE: 02/28 - 04/02/88+

INSPECTION REPORT NO: 50-361/88-08+

Report Period FEB 1988

REPORTS FROM LICENSEE

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X SAN ONOFRE 2 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
--------	------------------	-------------------	---------

NONE

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1. Docket: 50-362 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: E. R. SIACOR (714) 368-6223

4. Licensed Thermal Power (Mwt): 3390

5. Nameplate Rating (Gross MWe): 1127

6. Design Electrical Rating (Net MWe): 1080

7. Maximum Dependable Capacity (Gross MWe): 1127

8. Maximum Dependable Capacity (Net MWe): 1080

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>34,320.0</u>
13. Hours Reactor Critical	<u>637.4</u>	<u>1,191.7</u>	<u>24,914.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>631.8</u>	<u>1,140.2</u>	<u>24,014.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,121,877</u>	<u>3,764,804</u>	<u>73,220,565</u>
18. Gross Elec Ener (MWH)	<u>734,934</u>	<u>1,292,687</u>	<u>24,770,581</u>
19. Net Elec Ener (MWH)	<u>696,914</u>	<u>1,217,328</u>	<u>23,304,994</u>
20. Unit Service Factor	<u>90.8</u>	<u>79.2</u>	<u>70.0</u>
21. Unit Avail Factor	<u>90.8</u>	<u>79.2</u>	<u>70.0</u>
22. Unit Cap Factor (MDC Net)	<u>92.7</u>	<u>78.3</u>	<u>62.9</u>
23. Unit Cap Factor (DER Net)	<u>92.7</u>	<u>78.3</u>	<u>62.9</u>
24. Unit Forced Outage Rate	<u>9.2</u>	<u>20.8</u>	<u>10.1</u>
25. Forced Outage Hours	<u>64.2</u>	<u>299.8</u>	<u>2,708.6</u>

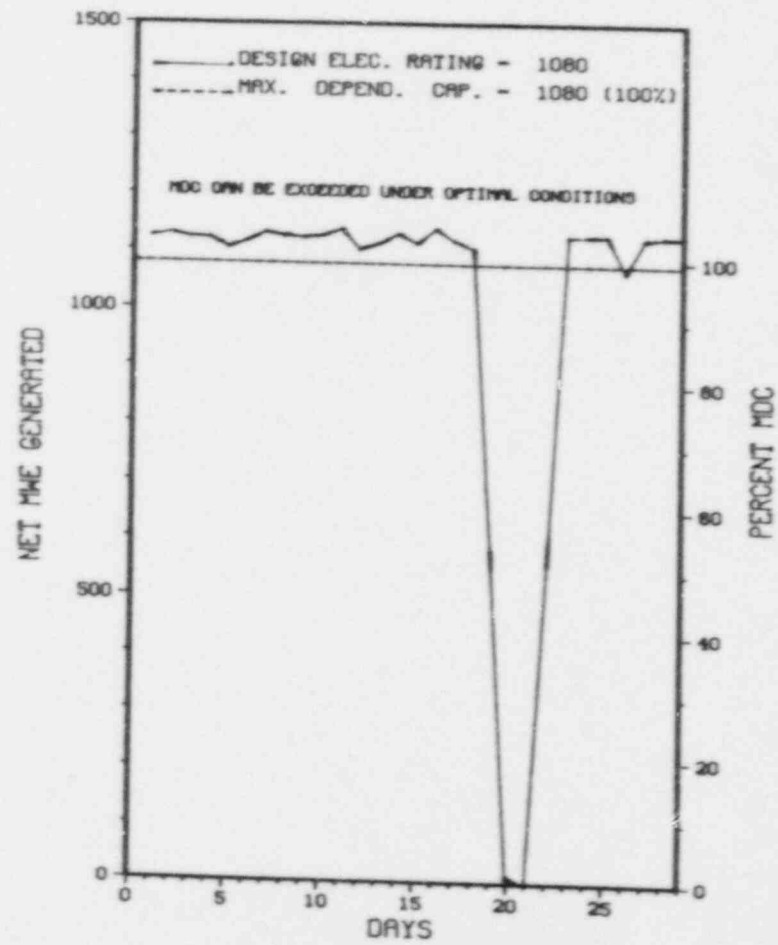
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING - APRIL 23, 1988 -- 80 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* SAN ONOFRE 3 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLUT

SAN ONOFRE 3



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* SAN ONOFRE 3 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
40	02/19/88	F	64.2	F	2	88-003	BQ	THE REACTOR WAS MANUALLY TRIPPED FROM 100% POWER AS REQUIRED BY PROCEDURE FOLLOWING SPURIOUS ACTUATION OF TRAINS 'A' AND 'B' OF BOTH SAFETY INJECTION ACTUATION SYSTEMS (SIAS) AND THE CONTAINMENT COOLING ACTUATION SYSTEM (CCAS). THE ACTUATIONS OCCURRED DURING PERFORMANCE OF THE 31-DAY PLANT PROTECTION SYSTEM (PPS) MATRIX TESTING. EXAMINATION AND EXTENSIVE TESTING WHICH COULD BE PERFORMED WITHOUT PLACING THE UNIT IN COLD SHUTDOWN HAD BEEN UNABLE TO DETERMINE THE CAUSE OF THE ACTUATION. ADDITIONAL TESTING WILL BE PERFORMED DURING THE CYCLE 4 REFUELING OUTAGE SCHEDULED FOR APRIL 1988.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 SAN ONOFRE 3 EXPERIENCED 1 FORCED OUTAGE IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* SAN ONOFRE 3 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....CALIFORNIA  
COUNTY.....SAN DIEGO  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI S OF  
SAN CLEMENTE, CA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 29, 1983  
DATE ELEC ENER 1ST GENER...SEPTEMBER 25, 1983  
DATE COMMERCIAL OPERATE...APRIL 1, 1984  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...PACIFIC OCEAN  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....SOUTHERN CALIFORNIA EDISON  
CORPORATE ADDRESS.....P.O. BOX 800  
ROSEMEAD, CALIFORNIA 91770  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC COM (ENG VERSION)

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....R. HUEY  
LICENSING PROJ MANAGER.....D. HICKMAN  
DOCKET NUMBER.....50-362  
LICENSE & DATE ISSUANCE...NPF-15, NOVEMBER 15, 1982  
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF CALIFORNIA  
GENERAL LIBRARY  
IRVINE, CA. 92713

INSPECTION SUMMARY

I N S P E C T I O N S T A T U S

+ INSPECTION ON NOVEMBER 22, 1987 - JANUARY 20, 1988 (REPORT NO. 50-362/87-31) AREAS INSPECTED: ROUTINE RESIDENT INSPECTION OF OPERATIONS PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, EVALUATION OF PLANT TRIPS AND EVENTS, MONTHLY SURVEILLANCE ACTIVITIES, MONTHLY MAINTENANCE ACTIVITIES, REFUELING ACTIVITIES, REFUELING ACTIVITIES, INDEPENDENT INSPECTION, LICENSEE EVENT REPORTS REVIEW, AND FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: OF THE AREAS EXAMINED, ONE VIOLATION WAS IDENTIFIED INVOLVING IMPROPER REPORTING OF PLANT OPERATION UNDER CONDITIONS PROHIBITED BY THE PLANT TECHNICAL SPECIFICATIONS.

+ INSPECTION ON JANUARY 4 - FEBRUARY 5, 1988 (REPORT NO. 50-362/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 10 - FEBRUARY 27, 1988 (REPORT NO. 50-362/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 19 - FEBRUARY 5, 1988 (REPORT NO. 50-362/88-04) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON UNRESOLVED AND OPEN ITEMS; ALLEGATION FOLLOW-UP; SOLID, LIQUID AND GASEOUS WASTE; TRANSPORTATION; FACILITIES AND EQUIPMENT; AND INCLUDING TOURS OF THE LICENSEE'S FACILITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: IN THE EIGHT AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED INVOLVING THE EXECUTION OF THE QUALITY ASSURANCE PROGRAM FOR

INSPECTION SUMMARY

RADIOACTIVE WASTE PACKAGING AND TRANSPORTATION ACTIVITIES, AND TWO OPEN ITEMS WERE IDENTIFIED CONCERNING THE RELEASE OF MATERIALS FROM THE RESTRICTED AREA AND POSTING OF RADIATION AREAS.

+ INSPECTION ON JANUARY 26-29, 1988 (REPORT NO. 50-362/88-05) AREAS INSPECTED: UNANNOUNCED, REACTIVE FOLLOWUP INSPECTION ON NINE OPEN ITEMS IDENTIFIED DURING PREVIOUS EMERGENCY PREPAREDNESS INSPECTIONS. IN ADDITION, AS A RESULT OF A RECENT EMERGENCY PLAN REVISION REVIEW, FOLLOWUP DISCUSSIONS WERE HELD REGARDING THE EMERGENCY PREPAREDNESS DRILL PROGRAM. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-362/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 8-11, 1988 (REPORT NO. 50-362/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 2, 1988 (REPORT NO. 50-362/88-08) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE UNIT CONTINUED FULL POWER OPERATION DURING FEBRUARY.

LAST IE SITE INSPECTION DATE: 02/28 - 04/02/88+

INSPECTION REPORT NO: 50-362/88-08+

Report Period FEB 1988

R E P O R T S F R O M L I C E N S E E

\*\*\*\*\*  
\* SAN ONOFRE 3 \*  
\*\*\*\*\*

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
-----			
NONE			
=====			

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Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X SEQUOYAH 1 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	12/20/85	F	696.0	F	4				DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

XXXXXXXXXXXX SEQUOYAH 1 REMAINED SHUTDOWN IN FEBRUARY BECAUSE OF DESIGN CONTROL,  
 \* SUMMARY \* CONFIGURATION UPDATING AND EMPLOYEE CONCERNS.  
 XXXXXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X SEQUOYAH 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....TENNESSEE  
COUNTY.....HAMILTON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...9.5 MI NE OF  
CHATTANOOGA, TN  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JULY 5, 1980  
DATE ELEC ENER 1ST GENER...JULY 22, 1980  
DATE COMMERCIAL OPERATE...JULY 1, 1981  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...CHICKAMAUGA LAKE  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....TENNESSEE VALLEY AUTHORITY  
CORPORATE ADDRESS.....6 NORTH 38A LOOKOUT PLACE  
CHATTANOOGA, TENNESSEE 37401  
CONTRACTOR  
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....E. FORD  
LICENSING PROJ MANAGER.....E. MCKENNA  
DOCKET NUMBER.....50-327  
LICENSE & DATE ISSUANCE...DPR-77, SEPTEMBER 17, 1980  
PUBLIC DOCUMENT ROOM.....CHATTANOOGA - HAMILTON BICENTENNIAL LIBRARY  
1001 BROAD STREET  
CHATTANOOGA, TENNESSEE 37402

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION OCTOBER 19-23 AND NOVEMBER 2-5 (87-61): THIS SPECIAL, ANNOUNCED SAFETY INSPECTION WAS CONDUCTED TO FURTHER DEVELOP THE STAFF'S SAFETY EVALUATION REPORT (SER) ON THE LATEST PGP, TO VERIFY THAT THE EMERGENCY OPERATING PROCEDURES (EOPs) WERE PREPARED AND VALIDATED IN ACCORDANCE WITH THE PGP AND SER, AND TO VERIFY THAT THE LICENSEE HAS IMPLEMENTED AN ACCEPTABLE PROGRAM FOR THE CONTROL OF NATURAL CIRCULATION COOLDOWN IN ACCORDANCE WITH THEIR COMMITMENT TO GENERIC LETTER 81-21. ONE VIOLATION WAS IDENTIFIED INVOLVING THE FAILURE TO ACCOMPLISH AN ACTIVITY AFFECTING QUALITY IN ACCORDANCE WITH A PRESCRIBED PROCEDURE.

INSPECTION DECEMBER 14-18 (87-75): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSED AND NON-LICENSED OPERATOR TRAINING AND LICENSED REQUALIFICATION TRAINING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 14 - FEBRUARY 12 (88-02): THIS ANNOUNCED INSPECTION INVOLVED ONSHIFT AND ONSITE INSPECTION BY THE NRC RESTART TASK FORCE. THE MAJORITY OF EXPENDED INSPECTION EFFORT WAS IN THE AREAS OF EXTENDED CONTROL ROOM OBSERVATION AND OPERATIONAL SAFETY VERIFICATION INCLUDING OPERATIONS PERFORMANCE, SYSTEM LINEUPS, RADIATION PROTECTION, AND SAFEGUARDS AND HOUSEKEEPING INSPECTIONS. OTHER AREAS INSPECTED INCLUDED MAINTENANCE OBSERVATIONS, REVIEW OF PREVIOUS INSPECTION FINDINGS, FOLLOWUP OF EVENTS, REVIEW OF LICENSEE IDENTIFIED ITEMS, AND REVIEW OF INSPECTOR FOLLOWUP ITEMS. DURING THIS PERIOD THERE WAS EXTENDED CONTROL ROOM AND PLANT ACTIVITY COVERAGE BY NRC INSPECTORS AND MANAGERS. ONE VIOLATION WAS IDENTIFIED. VIOLATION 327,328/88-02-01; FOUR EXAMPLES OF FAILURE TO FOLLOW PROCEDURE.

INSPECTION JANUARY 11-15 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF RADIOLOGICAL LIQUID AND GASEOUS EFFLUENTS, CHEMISTRY, AND ENVIRONMENTAL MONITORING. THE INSPECTION INCLUDED REVIEWING AND EVALUATING OPEN ITEMS FOR







NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/11/88	01/23/88	INACCURATE COMPUTER DATABASE CAUSES A TECH SPEC SURVEILLANCE INTERVAL TO EXCEED RESULTING IN INOPERABLE DIESEL GENERATOR
88-002	01/05/88	01/29/88	ESSENTIAL RAW COOLING WATER RAD MONITOR DECLARED INOPERABLE WITHOUT COMPLYING WITH THE LC AS A RESULT OF MISINTERP. LCO
88-003	01/14/88	02/04/88	INADVERTENT AUXILIARY BUILDING ISOLATION (ABI) CAUSED BY AN UNKNOWN SOURCE
88-004	01/11/88	02/10/88	50-AMP CIRCUIT BREAKERS MAY NOT PRECLUDE AUTO-IGNITION OF ASSOC CABLES CONTRARY TO 10 CFR APPER DUE TO MISAPP BREAKER
88-005	01/16/88	02/12/88	PERS NOT PROPERLY IMPLEMENTING APPROVED ADMIN PROCEDURE RESULTING IN INAPPROPRIATELY EXITING A TS ACTION STATEMENT RAD

1. Docket: 50-528 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: DAVID DUPREE (615) 870-6722

4. Licensed Thermal Power (MWT): 3411

5. Nameplate Rating (Gross MWe): 1220

6. Design Electrical Rating (Net MWe): 1148

7. Maximum Dependable Capacity (Gross MWe): 1183

8. Maximum Dependable Capacity (Net MWe): 1148

9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:           

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>50,401.0</u>
13. Hours Reactor Critic:	<u>.0</u>	<u>.0</u>	<u>21,984.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>21,494.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>69,127,974</u>
18. Gross Elec Ener (MWH)	<u>.0</u>	<u>.0</u>	<u>23,536,780</u>
19. Net Elec Ener (MWH)	<u>-13,176</u>	<u>-20,594</u>	<u>22,487,552</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>42.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>42.6</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>36.9</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>38.9</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>52.8</u>
25. Forced Outage Hours	<u>696.0</u>	<u>1,440.0</u>	<u>24,083.3</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

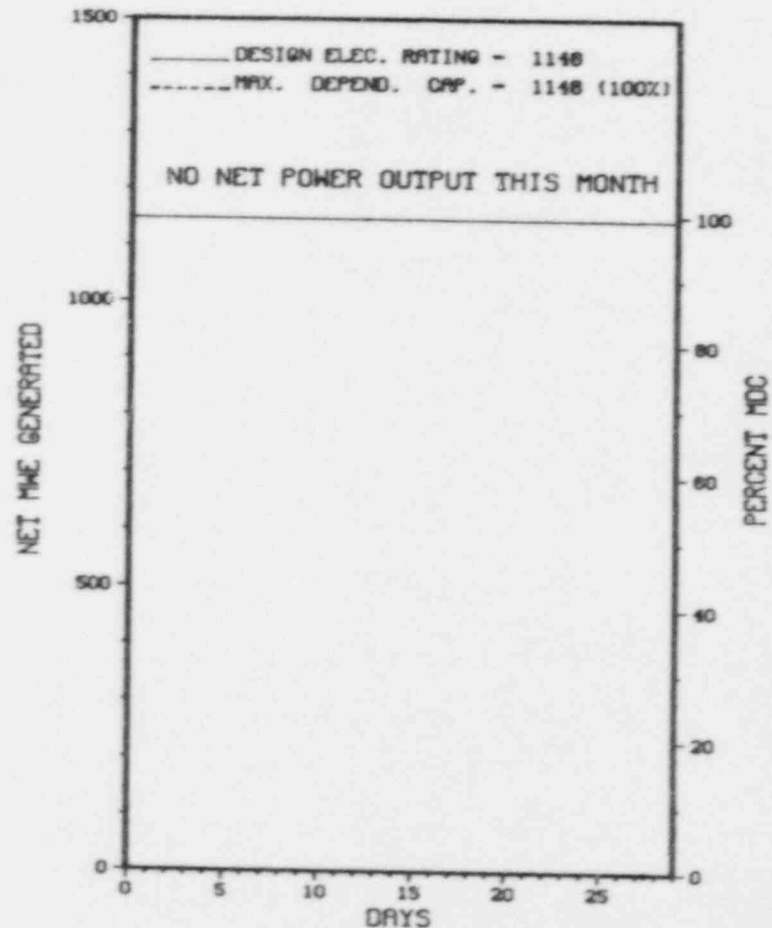
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 \* SEQUOYAH 2 \*  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SEQUOYAH 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* SEQUOYAH 2 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	08/21/85	F	696.0	F	4			DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

XXXXXXXXXXXX  
\* SUMMARY \*  
XXXXXXXXXXXX  
SEQUOYAH 2 REMAINED SHUTDOWN IN FEBRUARY BECAUSE OF DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* SEQUOYAH 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....TENNESSEE  
COUNTY.....HAMILTON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...9.5 MI NE OF  
CHATTANOOGA, TN  
REACTOR.....PWR  
CRITICALITY...NOVEMBER 5, 1981  
GENER...DECEMBER 23, 1981  
OPERATE...JUNE 1, 1982  
METHOD...ONCE THRU  
CHICKAMAUGA LAKE  
ELECTRI...SOUTHEASTERN ELECTRIC  
COUNCIL...RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....TENNESSEE VALLEY AUTHORITY  
CORPORATE ADDRESS.....6 NORTH 38A LOOKOUT PLACE  
CHATTANOOGA, TENNESSEE 37401  
CONTRACTOR  
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....E. FORD  
LICENSING PROJ MANAGER.....E. MCKENNA  
DOCKET NUMBER.....50-328  
LICENSE & DATE ISSUANCE...DPR-79, SEPTEMBER 15, 1981  
PUBLIC DOCUMENT ROOM.....CHATTANOOGA - HAMILTON BICENTENNIAL LIBRARY  
1001 BROAD STREET  
CHATTANOOGA, TENNESSEE 37402

INSPECTION STATUS

INSPECTION SUMMARY

\* INSPECTION OCTOBER 19-23 AND NOVEMBER 2-5 (87-61): THIS SPECIAL, ANNOUNCED SAFETY INSPECTION WAS CONDUCTED TO FURTHER DEVELOP THE STATE'S SAFETY EVALUATION REPORT (SER) ON THE LATEST PGP, TO VERIFY THAT THE EMERGENCY OPERATING PROCEDURES (EOPs) WERE PREPARED AND IMPLEMENTED IN ACCORDANCE WITH THE PGP AND SER, AND TO VERIFY THAT THE LICENSEE HAS IMPLEMENTED AN ACCEPTABLE PROGRAM FOR CONTROL OF NATURAL CIRCULATION COOLDOWN IN ACCORDANCE WITH THEIR COMMITMENT TO GENERIC LETTER 81-21. ONE VIOLATION WAS IDENTIFIED INVOLVING THE FAILURE TO ACCOMPLISH AN ACTIVITY AFFECTING QUALITY IN ACCORDANCE WITH A PRESCRIBED PROCEDURE.

INSPECTION DECEMBER 14-18 (87-75): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSED AND NON-LICENSED OPERATOR TRAINING AND LICENSED REQUALIFICATION TRAINING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 14 - FEBRUARY 12 (88-02): THIS ANNOUNCED INSPECTION INVOLVED ONSHIFT AND ONSITE INSPECTION BY THE NRC RESTART TASK FORCE. THE MAJORITY OF EXPENDED INSPECTION EFFORT WAS IN THE AREAS OF EXTENDED CONTROL ROOM OBSERVATION AND OPERATIONAL SAFETY VERIFICATION INCLUDING OPERATIONS PERFORMANCE, SYSTEM LINEUPS, RADIATION PROTECTION, AND SAFEGUARDS AND HOUSEKEEPING INSPECTIONS. OTHER AREAS INSPECTED INCLUDED MAINTENANCE OBSERVATIONS, REVIEW OF PREVIOUS INSPECTION FINDINGS, FOLLOWUP OF EVENTS, REVIEW OF LICENSEE IDENTIFIED ITEMS, AND REVIEW OF INSPECTOR FOLLOWUP ITEMS. DURING THIS PERIOD THERE WAS EXTENDED CONTROL ROOM AND PLANT ACTIVITY COVERAGE BY NRC INSPECTORS AND MANAGERS. ONE VIOLATION WAS IDENTIFIED. VIOLATION 327,328/88-02-01; FOUR EXAMPLES OF FAILURE TO FOLLOW PROCEDURE.

INSPECTION JANUARY 11-15 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF RADIOLOGICAL LIQUID AND GASEOUS EFFLUENTS, CHEMISTRY, AND ENVIRONMENTAL MONITORING. THE INSPECTION INCLUDED REVIEWING AND EVALUATING OPEN ITEMS FOR

INSPECTION SUMMARY

CLOSEOUT. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 25-29 (88-04): THIS WAS A SPECIAL, ANNOUNCED INSPECTION IN THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, FOLLOWUP ON LICENSEE RESPONSE TO THE TVA OPERATIONAL READINESS REVIEW REPORT, ORGANIZATION AND MANAGEMENT CONTROLS, EXTERNAL EXPOSURE CONTROL, INTERNAL EXPOSURE CONTROL, FACILITIES AND EQUIPMENT, CONTROL OF RADIOACTIVE MATERIAL AND SURVEYS, LICENSEE'S PROGRAM FOR MAINTAINING EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA) AND FOLLOWUP ON NRC INFORMATION NOTICES. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION JANUARY 12-15 (88-05): THIS WAS A ROUTINE, ANNOUNCED INSPECTION TO EVALUATE THE LICENSEE'S OVERALL NUCLEAR MATERIAL ACCOUNTABILITY AND CONTROL PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 4-19 (88-06): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF SYSTEM ALIGNMENT VERIFICATION FOR UNIT 2 HEATUP. THE INSPECTION CONSISTED OF REVIEW OF ADMINISTRATIVE PROCEDURES AND PERSONNEL QUALIFICATIONS, OBSERVATION OF THE LICENSEE'S ACCOMPLISHMENT OF THE SYSTEM OPERATING INSTRUCTION (SOI) CHECKLISTS, AND INDEPENDENT VERIFICATION OF SYSTEM ALIGNMENT. THE TEAM DETERMINED THAT THE LICENSEE'S CONFIGURATION CONTROL PROGRAM (COMPLETED SOI CHECKLISTS COMBINED WITH CONFIGURATION CONTROL LOG ENTRIES) WAS ADEQUATE TO SUPPORT HEATUP. THREE VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, AND THE ACCEPTED QUALITY ASSURANCE (QA) PROGRAM (TVA-TR-75-1A, REV. 9), FOR REVISIONS 2 AND 3 E-1, LOSS OF REACTOR OR SECONDARY COOLANT (FILED IN THE MAIN CONTROL ROOM ON JUNE 19, 1987 AND SEPTEMBER 22, 1987, RESPECTIVELY), SEVERAL LICENSED INDIVIDUALS, BOTH AT THE SENIOR REACTOR OPERATOR (SRO) AND UNIT OPERATOR (UO) LEVEL WERE FOUND NOT TO HAVE COMPLETED THE REQUIRED PROCEDURE REVIEW WITHIN THE SPECIFIED TIME FRAME. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION XVI, AND 10 CFR 50.71.(E).(4): (A) CAR 86-04-021 (WHICH DOCUMENTED THE FACT THAT TVA HAD NOT ESTABLISHED ADEQUATE CONTROLS TO ENSURE THE REQUIREMENTS OF 10 CFR 50.71 WERE SATISFIED) DID NOT ENSURE THAT ADEQUATE CORRECTIVE MEASURES WERE ESTABLISHED TO PREVENT RECURRENCE, IN THAT, THE TRANSITIONAL DESIGN CHANGE PROGRAM IMPLEMENTED BY AI-19 AND SQEP-15 DID NOT ENSURE THAT FSAR UPDATES REFLECT CHANGES TO THE FACILITY WITHIN 6 MONTHS OF FILING; (B) RESOLUTION OF SIGNIFICANT TEST DEFICIENCY DN-6 OF POST MODIFICATION TEST PMT-39 (SPECIFIED ON TEST DEFICIENCY REPORT 2-PT-789 CONCERNING UNEXPECTED OPENING OF REACTOR HEAD VENT THROTTLE VALVES) WAS INADEQUATE, IN THAT, IT DID NOT ENSURE THAT EMERGENCY PROCEDURES WERE REVISED OR PERSONNEL TRAINED TO MINIMIZE IMPACT ON ABOVE REACTOR COOLANT INVENTORY LOSS. CONTRARY TO TECHNICAL SPECIFICATION 4.3.2.1.3, THIS SURVEILLANCE REQUIREMENT IS NOT BEING MET IN THAT THE CONTAINMENT SPRAY PUMP START INTERLOCK IS NOT INCLUDED AS PART OF THE RESPONSE TIME FOR CONTAINMENT SPRAY ACTUATION.  
(8706 4)

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION VI, CHANGES TO THE PRIMARY CONTROL ROOM DRAWINGS ARE MADE BY PLANT MODIFICATIONS ENGINEERS WITH NO SECOND PARTY VERIFICATION TO ENSURE THE ACCURACY OF THE CHANGES TO THOSE DRAWINGS.  
(8706 5)

CONTRARY TO 10 CFR 50, APPENDIX A, GENERAL DESIGN CRITERION 56 AND 10 CFR 50, APPENDIX B, CRITERION III, DESIGN CONTROL, DCN X00028A AND WP 12635 FAILED TO INCORPORATE SEQUOYAH DESIGN CRITERIA SQN-DC-V-2.15, IN THAT TEST CONNECTION LINES FOR INSTRUMENTS 30-46B, 30-47B AND 30-48B DO NOT HAVE CAPS INSTALLED.

CONTRARY TO TECHNICAL SPECIFICATION 6.6.1 AND 10 CFR PART 50, SECTION 50.73(A)(2)(I)(B), THE LICENSEE DISCOVERED ON MARCH 25, 1987, THAT SURVEILLANCE REQUIREMENT 4.7.1.2.B.1, REGARDING THE AUXILIARY FEEDWATER LEVEL CONTROL BYPASS VALVES, WAS NOT BEING SATISFIED AND THIS VIOLATION OF TS WAS NOT REPORTED TO THE NRC. CONTRARY TO TECHNICAL SPECIFICATION (TS) 4.7.1.2.B.1, SURVEILLANCE INSTRUCTION (SI)-118, REVISION 14, AND EARLIER REVISIONS WHICH TVA UTILIZED TO IMPLEMENT THE ABOVE TS REQUIREMENTS, DID NOT ADEQUATELY TEST THE AUXILIARY FEEDWATER LEVEL CONTROL BYPASS VALVES, IN THAT, THE VALVES WERE NOT TESTED TO VERIFY PROPER OPERATION ON RECEIPT OF AUXILIARY FEEDWATER ACTUATION TEST SIGNALS FROM SAFETY INJECTION, BLACKOUT, LOSS OF BOTH MAIN FEEDWATER PUMPS (MFWP), OR TRIP OF 1 MFWP WITH THE PLANT ABOVE 80% POWER.



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1. Docket: 50-335 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (Mwt): 2700

5. Nameplate Rating (Gross MWe): 1000 X 0.89 = 890

6. Design Electrical Rating (Net MWe): 830

7. Maximum Dependable Capacity (Gross MWe): 872

8. Maximum Dependable Capacity (Net MWe): 839

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>98,112.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>73,991.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>205.3</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>72,410.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>39.3</u>
17. Gross Therm Ener (MWH)	<u>1,877,156</u>	<u>3,884,263</u>	<u>185,229,900</u>
18. Gross Elec Ener (MWH)	<u>632,710</u>	<u>1,309,000</u>	<u>60,832,585</u>
19. Net Elec Ener (MWH)	<u>601,389</u>	<u>1,244,260</u>	<u>57,435,849</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>73.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>73.8</u>
22. Unit Cap Factor (MDC Net)	<u>103.0</u>	<u>103.0</u>	<u>69.8</u>
23. Unit Cap Factor (DER Net)	<u>104.1</u>	<u>104.1</u>	<u>70.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>3.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,940.9</u>

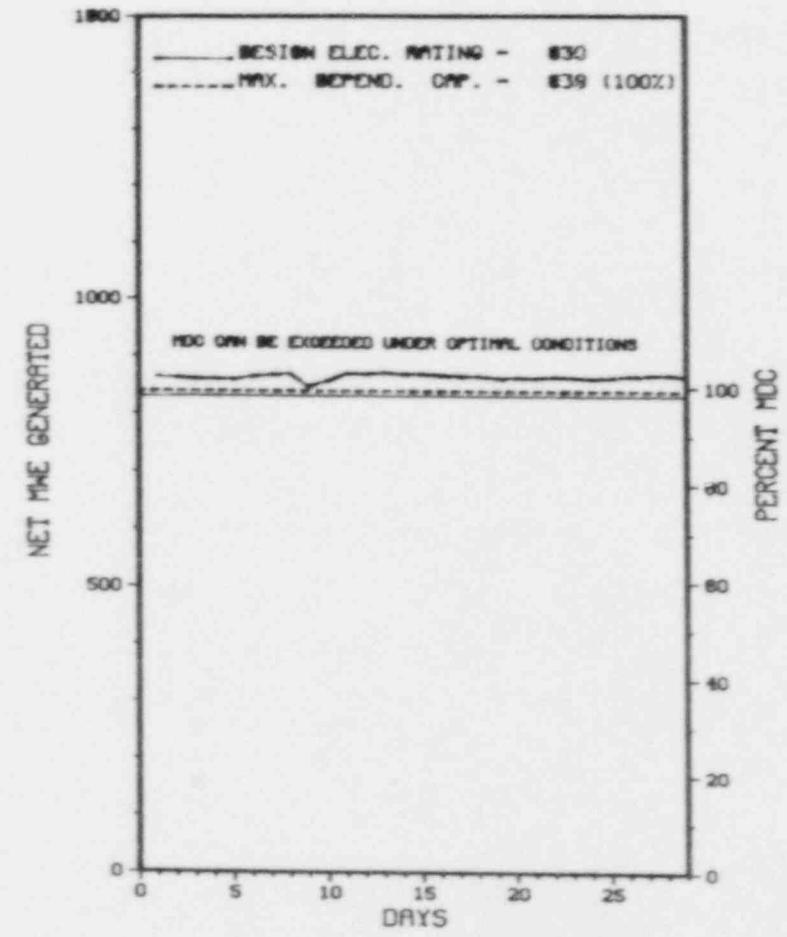
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X ST LUCIE 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* ST LUCIE 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
ST. LUCIE 1 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
OR SIGNIFICANT POWER REDUCTIONS.

<u>Type</u>	<u>Reason</u>	<u>Metho</u>	<u>System &amp; Component</u>
F-Forced	A-Equip Failure F-Admin	1-Man al	Exhibit F & H
S-Sched	B-Maint or Test G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* ST LUCIE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

UTILITY & CONTRACTOR INFORMATION

LOCATION  
STATE.....FLORIDA  
COUNTY.....ST LUCIE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...12 MI SE OF  
FT. PIERCE, Fla  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...APRIL 22, 1976  
DATE ELEC ENER 1ST GENER...MAY 7, 1976  
DATE COMMERCIAL OPERATE...DECEMBER 21, 1976  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...ATLANTIC OCEAN  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY  
LICENSEE.....FLORIDA POWER & LIGHT  
CORPORATE ADDRESS.....9250 WEST FLAGLER STREET P.O. BOX 529100  
MIAMI, FLORIDA 33152  
CONTRACTOR  
ARCHITECT/ENGINEER.....EBASCO  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....EBASCO  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....R. CRLENJAK  
LICENSING PROJ MANAGER.....E. TOURIGNY  
DOCKET NUMBER.....50-335  
LICENSE & DATE ISSUANCE...DPR-67, MARCH 1, 1976  
PUBLIC DOCUMENT ROOM.....INDIAN RIVER COMMUNITY COLLEGE LIBRARY  
3209 VIRGINIA AVENUE  
FT. PIERCE, FLORIDA 33450

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

\* INSPECTION DECEMBER 6 - JANUARY 2 (87-31): THIS INSPECTION INVOLVED ON SITE ACTIVITIES IN THE AREAS OF TECHNICAL SPECIFICATION COMPLIANCE, OPERATOR PERFORMANCE, OVERALL PLANT OPERATIONS, QUALITY ASSURANCE PRACTICES, STATION AND CORPORATE MANAGEMENT PRACTICES, CORRECTIVE AND PREVENTIVE MAINTENANCE ACTIVITIES, SITE SECURITY PROCEDURES, RADIATION CONTROL ACTIVITIES, AND SURVEILLANCE ACTIVITIES. OF THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. FAILURE TO IMPLEMENT PROCEDURE 1-0970020. OPERATION OF THE 120V INSTRUMENT AC SYSTEM (CLASS 1E).

ENFORCEMENT SUMMARY

CONTRARY TO UNIT 1 TECHNICAL SPECIFICATION (TS) 3.0.4, ON OCTOBER 14, 1987, UNIT 1 ENTERED MODE 4 FROM MODE 5 WITHOUT THE CONDITIONS OF LCD 3.6.6.2 BEING MET. SHIELD BUILDING INTEGRITY WAS NOT BEING MAINTAINED DUE TO A DOOR THAT WAS LEFT OPEN AND UNATTENDED.

(8702 4)

CONTRARY TO UNIT 1 TECHNICAL SPECIFICATIONS (TS) 6.8.1.A, AND REGULATORY GUIDE 1.33, REVISION 2, FEBRUARY 1978, APPENDIX A, ON DECEMBER 21, 1987, PROCEDURE 1-0970020, OPERATION OF THE 120V INSTRUMENT AC SYSTEM (CLASS 1E), WAS NOT PROPERLY IMPLEMENTED IN THAT WHILE ATTEMPTING TO PLACE THE 1MD INSTRUMENT INVERTER BACK INTO SERVICE FOLLOWING PREVENTIVE MAINTENANCE, THE INVERTER'S

ENFORCEMENT SUMMARY

OUTPUT BREAKER WAS NOT CLOSED, THEREBY CAUSING LOSS OF 120V INSTRUMENT AC AND A SUBSEQUENT REACTOR TRIP. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, THE PROCEDURE UTILIZED BY THE LICENSEE FOR NATIONAL CIRCULATION COOLDOWN, EP-1.02A, REV. 1 IS INADEQUATE IN THAT THE COOLDOWN CURVE REFERENCED AS ATTACHMENT 2 IN THE PROCEDURE, IS LESS CONSERVATIVE THAN THE TECHNICAL SPECIFICATION HEAT-UP/COOLDOWN CURVE, FIGURE 3.1-1.  
(8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS.

LAST IE SITE INSPECTION DATE: DECEMBER 6, 1987 - JANUARY 2, 1988 +

INSPECTION REPORT NO: 50-335/87-31 +

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE.			

1. Docket: 50-38y OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: N. H. GRANT (305) 694-4432

4. Licensed Thermal Power (MWt): 2700

5. Nameplate Rating (Gross MWe): 850

6. Design Electrical Rating (Net MWe): 830

7. Maximum Dependable Capacity (Gross MWe): 882

8. Maximum Dependable Capacity (Net MWe): 839

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>40,009.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>34,197.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>33,477.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,876,508</u>	<u>3,881,805</u>	<u>86,878,447</u>
18. Gross Elec Ener (MWH)	<u>653,310</u>	<u>1,309,540</u>	<u>29,008,200</u>
19. Net Elec Ener (MWH)	<u>601,719</u>	<u>1,244,179</u>	<u>27,411,967</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>83.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>83.7</u>
22. Unit Cap Factor (MDC Net)	<u>103.0</u>	<u>103.0</u>	<u>81.7</u>
23. Unit Cap Factor (DER Net)	<u>104.2</u>	<u>104.1</u>	<u>82.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>7.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,511.7</u>

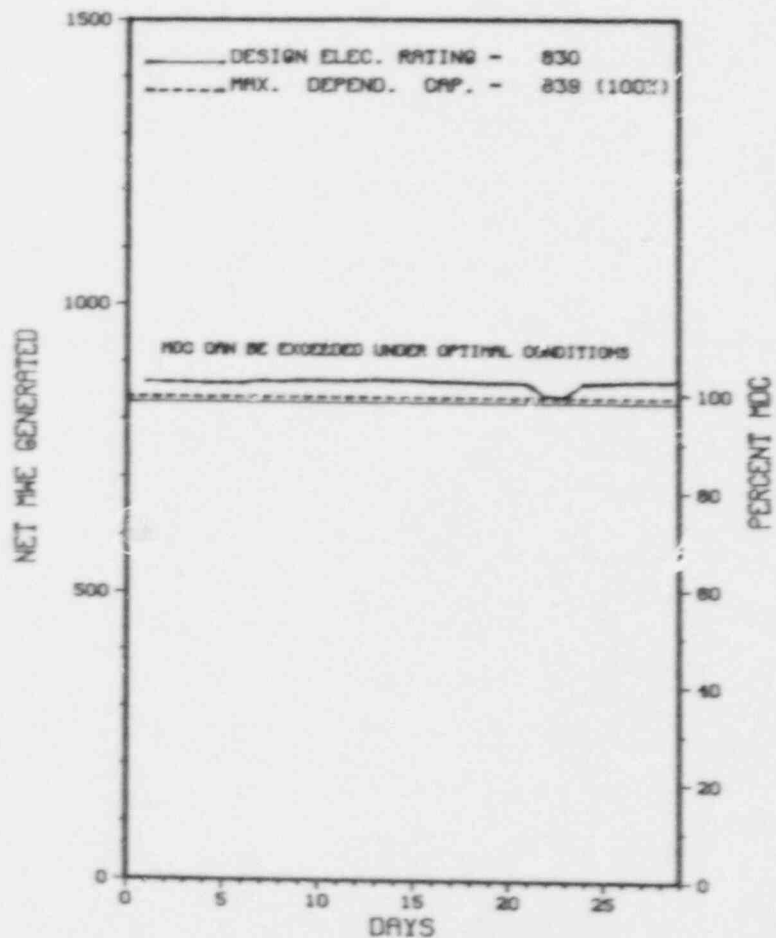
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* ST LUCIE ? \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* ST LUCIE 2 \*  
\*\*\*\*\*

<u>No.</u>	<u>Date</u>	<u>Type</u>	<u>Hours</u>	<u>Reason</u>	<u>Method</u>	<u>LER Number</u>	<u>System</u>	<u>Component</u>	<u>Cause &amp; Corrective Action to Prevent Recurrence</u>
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NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*

ST. LUCIE 2 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

<u>Type</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; Component</u>
F-Forced	A-Equip Failure	F-Admin	1-Manual
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram
	C-Refueling	H-Other	3-Auto Scram
	D-Regulatory Restriction		4-Continued
	E-Operator Training		5-Reduced Load
	& License Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)

\*\*\*\*\*  
\* ST LUCIE 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....FLORIDA  
COUNTY.....ST LUCIE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...12 MI SE OF  
FT. PIERCE, FLA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JUNE 2, 1983  
DATE ELEC ENER 1ST GENER...JUNE 13, 1983  
DATE COMMERCIAL OPERATE...AUGUST 8, 1983  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...ATLANTIC OCEAN  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....FLORIDA POWER & LIGHT  
CORPORATE ADDRESS.....9250 WEST FLAGLER ST., P.O. BOX 529100  
MIAMI, FLORIDA 33152  
CONTRACTOR  
ARCHITECT/ENGINEER.....EBASCO  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....EBASCO  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....R. CRLENJAK  
LICENSING PROJ MANAGER.....E. TOURIGNY  
DOCKET NUMBER.....50-389  
LICENSE & DATE ISSUANCE...NPF-16, JUNE 10, 1983  
PUBLIC DOCUMENT ROOM.....INDIAN RIVER COMMUNITY COLLEGE LIBRARY  
3209 VIRGINIA AVENUE  
FT. PIERCE, FLORIDA 33450

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION DECEMBER 6 - JANUARY 2 (87-30): THIS INSPECTION INVOLVED ON SITE ACTIVITIES IN THE AREAS OF TECHNICAL SPECIFICATION COMPLIANCE, OPERATOR PERFORMANCE, OVERALL PLANT OPERATIONS, QUALITY ASSURANCE PRACTICES, STATION AND CORPORATE MANAGEMENT PRACTICES, CORRECTIVE AND PREVENTIVE MAINTENANCE ACTIVITIES, SITE SECURITY PROCEDURES, RADIATION CONTROL ACTIVITIES, AND SURVEILLANCE ACTIVITIES. OF THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. FAILURE TO IMPLEMENT PROCEDURE 1-0970020, OPERATION OF THE 120V INSTRUMENT AC SYSTEM (CLASS 1E).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                   ST LUCIE 2                   \*  
\*\*\*\*\*

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS.

LAST IE SITE INSPECTION DATE: DECEMBER 6, 1987 - JANUARY 2, 1988 +

INSPECTION REPORT NO: 50-389/87-30 +

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE.

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1. Docket: 50-395                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: J. W. HALTIWANGER (803) 345-5209

4. Licensed Thermal Power (MHT):                      2775

5. Nameplate Rating (Gross MWe):                      900

6. Design Electrical Rating (Net MWe):                      900

7. Maximum Dependable Capacity (Gross MWe):                      900

8. Maximum Dependable Capacity (Net MWe):                      885

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>30,504.0</u>
13. Hours Reactor Critical	<u>661.1</u>	<u>1,405.1</u>	<u>28,074.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>652.9</u>	<u>1,396.9</u>	<u>27,525.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,781,887</u>	<u>3,844,461</u>	<u>72,628,141</u>
18. Gross Elec Ener (MWH)	<u>594,940</u>	<u>1,285,300</u>	<u>24,114,713</u>
19. Net El'c Ener (MWH)	<u>569,199</u>	<u>1,231,958</u>	<u>22,971,541</u>
20. Unit Service Factor	<u>93.8</u>	<u>97.0</u>	<u>75.4</u>
21. Unit Avail Factor	<u>93.8</u>	<u>97.0</u>	<u>75.4</u>
22. Unit Cap Factor (MDC Net)	<u>92.4</u>	<u>96.7</u>	<u>71.1</u>
23. Unit Cap Factor (DER Net)	<u>90.9</u>	<u>95.1</u>	<u>69.9</u>
24. Unit Forced Outage Rate	<u>6.2</u>	<u>3.0</u>	<u>6.3</u>
25. Forced Outage Hours	<u>43.1</u>	<u>43.1</u>	<u>1,866.2</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

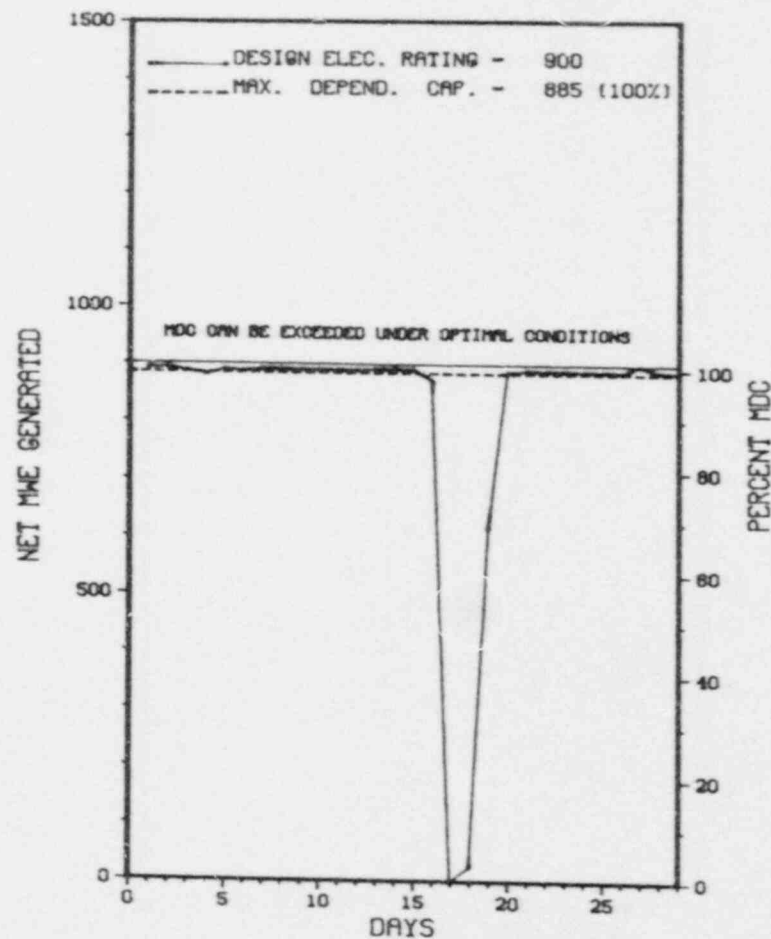
NONE

27. If Currently Shutdown Estimated Start Date: N/A

\*\*\*\*\*  
 \*                      SUMMER 1                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUMMER 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* SUMMER 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/16/88	F	43.1	A	3				TIGHTEN LOOSE CONNECTIONS ON METER TEST CARD OF POWER RANGE NUCLEAR INSTRUMENT CHANNEL.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
SUMMER 1 INCURRED 1 OUTAGE IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* SUMMER 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....SOUTH CAROLINA  
COUNTY.....FAIRFIELD  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...26 MI NW OF  
COLUMBIA, SC  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...OCTOBER 22, 1982  
DATE ELEC ENER 1ST GENER...NOVEMBER 16, 1982  
DATE COMMERCIAL OPERATE....JANUARY 1, 1984  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...MONTICELLO RESERVOIR  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....SOUTH CAROLINA ELECTRIC & GAS CO.  
CORPORATE ADDRESS.....P.O. BOX 764  
COLUMBIA, SOUTH CAROLINA 29202  
CONTRACTOR  
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DANIEL INTERNATIONAL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....R. PREVATTE  
LICENSING PROJ MANAGER.....J. HAYES  
DOCKET NUMBER.....50-395  
LICENSE & DATE ISSUANCE...NPF-12, NOVEMBER 12, 1982  
PUBLIC DOCUMENT ROOM.....FAIRFIELD COUNTY LIBRARY  
GARDEN & WASHINGTON STREETS  
WINNSBORO, SOUTH CAROLINA 29180

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

\* INSPECTION JANUARY 5-31 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED BY THE RESIDENT INSPECTORS ONSITE, IN THE AREAS OF MONTHLY SURVEILLANCE OBSERVATIONS, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY FEATURES SYSTEM WALKDOWN, ONSITE FOLLOWUP OF EVENTS AND SUBSEQUENT WRITTEN REPORTS, RADIOLOGICAL PROTECTION, AND PHYSICAL SECURITY. TWO VIOLATIONS WERE IDENTIFIED IN THE AREAS OF FIRE PROTECTION COMPENSATORY ACTION PATROLS AND OUTDATED PROCEDURES.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.



1. Docket: 50-280 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: L. A. WARREN (804) 357-3184

4. Licensed Thermal Power (MWT): 2441

5. Nameplate Rating (Gross MWe): 942 X 0.9 = 848

6. Design Electrical Rating (Net MWe): 788

7. Maximum Dependable Capacity (Gross MWe): 820

8. Maximum Dependable Capacity (Net MWe): 781

9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

10. Power Level To Which Restricted, If Any (Net MWe):

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>133,152.0</u>
13. Hours Reactor Critical	<u>679.5</u>	<u>1,423.5</u>	<u>86,163.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,774.5</u>
15. Hrs Generator On-Line	<u>672.0</u>	<u>1,416.0</u>	<u>84,386.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,736.2</u>
17. Gross Therm Ener (MWH)	<u>1,606,034</u>	<u>3,417,744</u>	<u>195,645,010</u>
18. Gross Elec Ener (MWH)	<u>542,760</u>	<u>1,157,695</u>	<u>63,532,868</u>
19. Net Elec Ener (MWH)	<u>516,588</u>	<u>1,102,405</u>	<u>60,254,567</u>
20. Unit Service Factor	<u>96.6</u>	<u>98.3</u>	<u>63.4</u>
21. Unit Avail Factor	<u>96.6</u>	<u>98.3</u>	<u>66.2</u>
22. Unit Cap Factor (MDC Net)	<u>95.0</u>	<u>98.0</u>	<u>57.9</u>
23. Unit Cap Factor (DER Net)	<u>94.2</u>	<u>97.2</u>	<u>57.4</u>
24. Unit Forced Outage Rate	<u>3.4</u>	<u>1.7</u>	<u>17.7</u>
25. Forced Outage Hours	<u>24.0</u>	<u>24.0</u>	<u>14,444.3</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

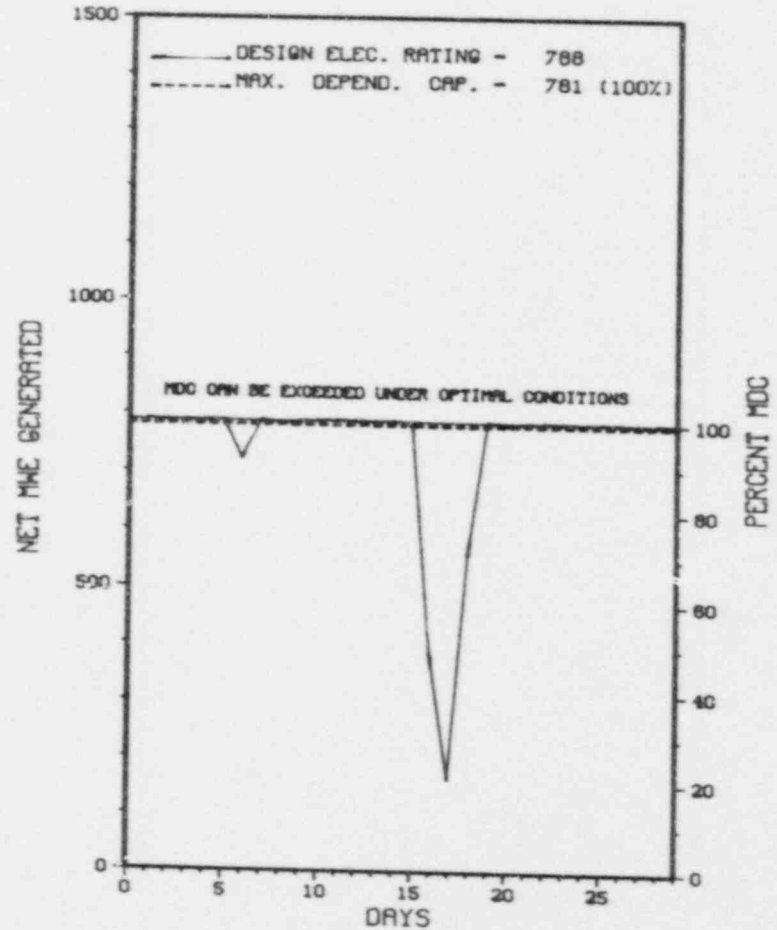
REFUELING - 4/2/88 - 62 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* SURRY 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SURRY 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* SURRY 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	02/06/88	S	0.0	B	5				UNIT WAS REDUCED TO 70% POWER, 580 MW'S TO ALLOW MONTHLY TESTING OF TURBINE VALVES (PT-29.1).
88-03	02/16/88	F	24.0	G	3	280/88-003			DURING PERFORMANCE OF PT-8.1, THE TRAIN 'B' F-10 BUTTON WAS PUSHED WHEN TRAIN 'A' WAS BEING TESTED CAUSING A NIS POWER RANGE LO SP HI FLUX REACTOR TRIP. CORRECTIVE ACTION IS TO ENSURE PROPER PRE-JOB BRIEFING AND TO CHANGE SOME WORDING IN THE PROCEDURE TO GIVE COMMAND TYPE STEPS WHEN REFERRING TO WHICH TRAIN TO BE IN OR TO GO TO.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 SURRY 1 INCURRED 1 OUTAGE AND 1 POWER REDUCTION IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	F-Admin	2-Manual Scram	Instructions for
	B-Maint or Test	3-Auto Scram	Preparation of
	C-Refueling	4-Continued	Data Entry Sheet
	D-Regulatory Restriction	5-Reduced Load	Licensee Event Report
	E-Operator Training	9-Other	(LER) File (NUREG-0161)
	& License Examination		

\*\*\*\*\*  
X SURRY 1 X  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....VIRGINIA  
COUNTY.....SURRY  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...17 MI NW OF  
NEWPORT NEWS, VA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JULY 1, 1972  
DATE ELEC ENER 1ST GENER...JULY 4, 1972  
DATE COMMERCIAL OPERATE...DECEMBER 22, 1972  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...JAMES RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....VIRGINIA POWER  
CORPORATE ADDRESS.....P.O. BOX 26666  
RICHMOND, VIRGINIA 23261  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....D. BURKE  
LICENSING PROJ MANAGER.....C. PATEL  
DOCKET NUMBER.....50-280  
LICENSE & DATE ISSUANCE...DPR-32, MAY 25, 1972  
PUBLIC DOCUMENT ROOM.....SWEM LIBRARY  
COLLEGE OF WILLIAM AND MARY  
WILLIAMSBURG, VIRGINIA 23185

INSPECTION SUMMARY

I N S P E C T I O N S T A T U S

+ INSPECTION JANUARY 3-31 (88-01): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF PLANT OPERATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, FOLLOWUP ON INSPECTOR IDENTIFIED ITEMS, LICENSEE EVENT REPORT REVIEW, AND QUALITY ASSURANCE PROGRAM REVIEW. TWO VIOLATIONS WERE IDENTIFIED IN THIS INSPECTION REPORT.

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.4.D AND RADIATION CONTROL PROCEDURE HP 2.3, CONTAMINATED EQUIPMENT AND COMPONENT CONTROL, DATED FEBRUARY 2, 1987, THE LICENSEE FAILED TO ADHERE TO RADIATION CONTROL PROCEDURES IN THAT SEVERAL CONTAMINATED ITEMS WERE FOUND DECEMBER 8, 1987, INSIDE A GANG BOX THAT WERE NOT PROPERLY BAGGED OR LABELED.  
(8703 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period FEB 1988

INSPECTION STATUS - (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* SURRY 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATION.

NONE.

LAST IE SITE INSPECTION DATE: JANUARY 3-31, 1988 +

INSPECTION REPORT NO: 50-280/88-01 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-040	12/31/87	01/29/88	REQUIRED SR 89 AND 90 ANALYSES NOT PERFORMED; FAILURE TO FOLLOW HEALTH PHYSICS PROCEDURES



1. Docket: 50-281                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: L. A. WARREN (804) 357-3184

4. Licensed Thermal Power (Mwt):                      2441

5. Nameplate Rating (Gross MWe):                      942 X 0.9 = 848

6. Design Electrical Rating (Net MWe):                      788

7. Maximum Dependable Capacity (Gross MWe):                      820

8. Maximum Dependable Capacity (Net MWe):                      781

9. If Changes Occur Above Since Last Report, Give Reasons: NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>130,032.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>86,108.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>23.8</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>84,738.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,673,842</u>	<u>3,484,908</u>	<u>198,655,257</u>
18. Gross Elec Ener (MWH)	<u>557,300</u>	<u>1,163,840</u>	<u>64,531,664</u>
19. Net Elec Ener (MWH)	<u>530,236</u>	<u>1,107,816</u>	<u>61,186,597</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>65.2</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>65.2</u>
22. Unit Cap Factor (MDC Net)	<u>97.5</u>	<u>98.5</u>	<u>60.2</u>
23. Unit Cap Factor (DER Net)	<u>96.7</u>	<u>97.6</u>	<u>59.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>13.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,859.1</u>

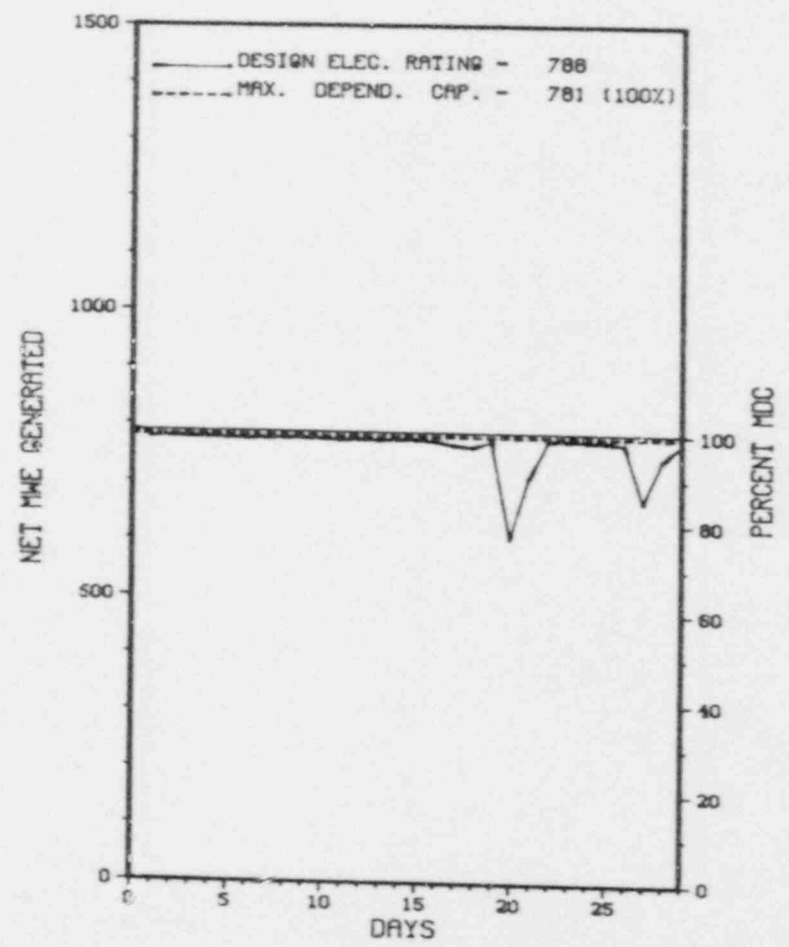
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING OUTAGE 9/2/88 - 48 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                      SURRY 2                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SURRY 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 \* SURRY 2 \*  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	02/20/88	S	0.0	B	5				UNIT WAS REDUCED TO 70% POWER, 580 MW TO ALLOW MONTHLY TESTING OF TURBINE VALVES (PT-29.1).

XXXXXXXXXX  
 \* SUMMARY \*  
 XXXXXXXXXXXXX  
 SURRY 2 INCURRED 1 POWER REDUCTION IN FEBRUARY FOR TESTING OF TURBINE VALVES.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* SURRY 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....VIRGINIA  
COUNTY.....SURRY  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...17 MI NW OF  
NEWPORT NEWS, VA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MARCH 7, 1973  
DATE ELEC ENER 1ST GENER...MARCH 10, 1973  
DATE COMMERCIAL OPERATE...MAY 1, 1973  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER....JAMES RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....VIRGINIA POWER  
CORPORATE ADDRESS.....P.O. BOX 26666  
RICHMOND, VIRGINIA 23261  
CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....D. BURKE  
LICENSING PROJ MANAGER.....C. PATEL  
DOCKET NUMBER.....50-281  
LICENSE & DATE ISSUANCE...DPR-37, JANUARY 29, 1973  
PUBLIC DOCUMENT ROOM.....SWEM LIBRARY  
COLLEGE OF WILLIAM AND MARY  
WILLIAMSBURG, VIRGINIA 23185

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

\* INSPECTION JANUARY 3-31 (88-01): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF PLANT OPERATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, FOLLOWUP ON INSPECTOR IDENTIFIED ITEMS, LICENSEE EVENT REPORT REVIEW, AND QUALITY ASSURANCE PROGRAM REVIEW. TWO VIOLATIONS WERE IDENTIFIED IN THIS INSPECTION REPORT.

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, THE PROCEDURE UTILIZED BY THE LICENSEE FOR NATIONAL CIRCULATION COOLDOWN, EP-1.02A, REV. 1 IS INADEQUATE IN THAT THE COOLDOWN CURVE REFERENCED AS ATTACHMENT 2 IN THE PROCEDURE, IS LESS CONSERVATIVE THAN (8703 4)

CONTRARY TO TECHNICAL SPECIFICATION 6.4.D AND RADIATION CONTROL PROCEDURE HP 2.3, CONTAMINATED EQUIPMENT AND COMPONENT CONTROL, DATED FEBRUARY 2, 1987, THE LICENSEE FAILED TO ADHERE TO RADIATION CONTROL PROCEDURES IN THAT SEVERAL CONTAMINATED ITEMS WERE FOUND DECEMBER 8, 1987, INSIDE A GANG BOX THAT WERE NOT PROPERLY BAGGED OR LABELED. (8703 5)



1. Docket: 50-387                      O P E R A T I N G   S T A T U S
2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0
3. Utility Contact: J. A. HIRT (717) 542-3917
4. Licensed Thermal Power (Mwt):                      3293
5. Nameplate Rating (Gross MWe):                      1280 X 0.9 = 1152
6. Design Electrical Rating (Net MWe):                      1065
7. Maximum Dependable Capacity (Gross MWe):                      1068
8. Maximum Dependable Capacity (Net MWe):                      1032
9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>41,473.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>30,094.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>773.2</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>29,388.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,281,300</u>	<u>4,613,467</u>	<u>90,659,892</u>
18. Gross Elec Ener (MWH)	<u>755,320</u>	<u>1,526,764</u>	<u>29,537,363</u>
19. Net Elec Ener (MWH)	<u>728,659</u>	<u>1,471,562</u>	<u>28,318,958</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>70.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>70.9</u>
22. Unit Cap Factor (MDC Net)	<u>101.4</u>	<u>99.0</u>	<u>66.2</u>
23. Unit Cap Factor (DER Net)	<u>98.3</u>	<u>96.0</u>	<u>64.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>10.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>3,416.6</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

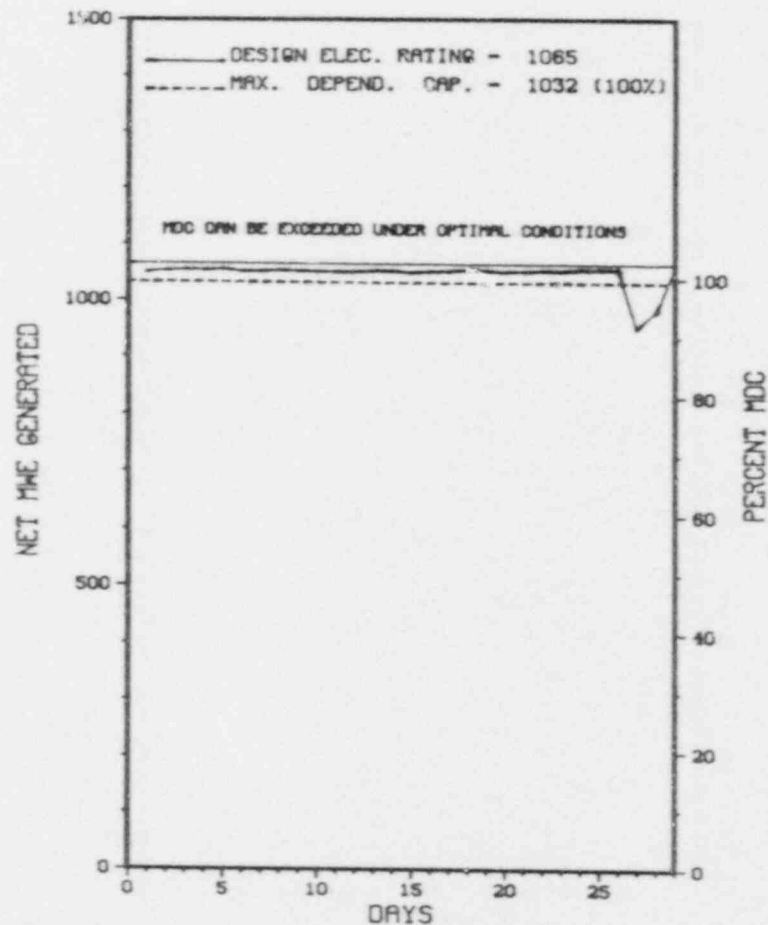
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \*                      SUSQUEHANNA 1                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* SUSQUEHANNA 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
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NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
SUSQUEHANNA 1 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* SUSQUEHANNA 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....PENNSYLVANIA  
COUNTY.....LUZERNE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...7 MI NE OF  
BERWICK, PA  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...SEPTEMBER 10, 1982  
DATE ELEC ENER 1ST GENER...NOVEMBER 16, 1982  
DATE COMMERCIAL OPERATE....JUNE 8, 1983  
CONDENSER COOLING METHOD...CC,HNDCT  
CONDENSER COOLING WATER...SUSQUEHANNA RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PENNSYLVANIA POWER & LIGHT  
CORPORATE ADDRESS.....2 NORTH NINTH STREET  
ALLENTOWN, PENNSYLVANIA 18101  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....F. YOUNG  
LICENSING PRGJ MANAGER....M. THADANI  
DOCKET NUMBER.....50-387  
LICENSE & DATE ISSUANCE...NPF-14, NOVEMBER 12, 1982  
PUBLIC DOCUMENT ROOM.....OSTERHOUT FREE LIBRARY  
71 SOUTH FRANKLIN STREET  
WILKES-BARRE, PENNSYLVANIA 18701

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

I N S P E C T I O N   S T A T U S

Report Period FEB 1988

I N S P E C T I O N   S T A T U S - (CONTINUED)

XX  
X                   SUSQUEHANNA 1                   X  
XX

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

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1. Docket: 50-388                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: J. A. HIRT (717) 542-3917

4. Licensed Thermal Power (MWT):                      3293

5. Nameplate Rating (Gross MWe):                      1152

6. Design Electrical Rating (Net MWe):                      1065

7. Maximum Dependable Capacity (Gross MWe):                      1068

8. Maximum Dependable Capacity (Net MWe):                      1032

9. If Changes Occur Above Since Last Report, Give Reasons:

\*\*\*\*\*  
 \*                      SUSQUEHANNA 2                      \*  
 \*\*\*\*\*

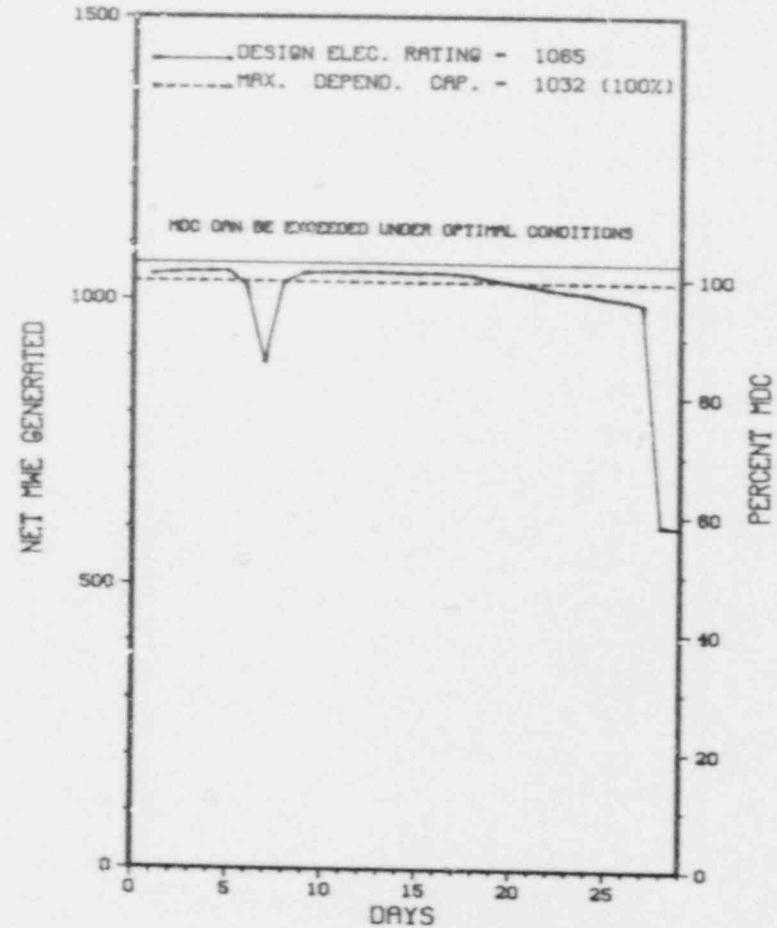
AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 2

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
 NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>26,712.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>22,991.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>693.9</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>22,600.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,205,106</u>	<u>4,612,429</u>	<u>71,238,147</u>
18. Gross Elec Ener (MWH)	<u>721,492</u>	<u>1,515,022</u>	<u>23,321,784</u>
19. Net Elec Ener (MWH)	<u>696,578</u>	<u>1,462,718</u>	<u>22,463,682</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>84.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>84.6</u>
22. Unit Cap Factor (MDC Net)	<u>97.0</u>	<u>98.4</u>	<u>81.5</u>
23. Unit Cap Factor (DER Net)	<u>94.0</u>	<u>95.4</u>	<u>79.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>8.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,149.0</u>



FEBRUARY 1988

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

REFUELING OUTAGE - MARCH 5, 1988 - DURATION 77 DAYS.

27. If Currently Shutdown Estimated Startup Date: N/A

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* SUSQUEHANNA 2 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	02/28/88	S	0.0	G	5		ZZZ	ZZZZZ	ON FEBRUARY 28, 1988, AT 0100 HOURS OPERATIONS PERSONNEL REDUCED REACTOR POWER TO APPROXIMATELY 60% RATED POWER. THIS REDUCTION WAS NECESSITATED IN ORDER TO MAINTAIN THE END OF CYCLE TWO CORE EXPOSURE WITHIN THE LIMITS ASSUMED IN THE CYCLE THREE LICENSING ANALYSIS.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 SUSQUEHANNA 2 INCURRED 1 POWER REDUCTION IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* SUSQUEHANNA 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....PENNSYLVANIA  
COUNTY.....LUZERNE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...7 MI NE OF  
BERWICK, PA  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...MAY 8, 1984  
DATE ELEC ENER 1ST GENER...JULY 3, 1984  
DATE COMMERCIAL OPERATE...FEBRUARY 12, 1985  
CONDENSER COOLING METHOD...CC,HNDCT  
CONDENSER COOLING WATER...SUSQUEHANNA RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PENNSYLVANIA POWER & LIGHT  
CORPORATE ADDRESS.....2 NORTH NINTH STREET  
ALLENTOWN, PENNSYLVANIA 18101  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....F. YOUNG  
LICENSING PROJ MANAGER.....M. THADANI  
DOCKET NUMBER.....50-388  
LICENSE & DATE ISSUANCE...NPF-22, JUNE 27, 1984  
PUBLIC DOCUMENT ROOM.....OSTERHOUT FREE LIBRARY  
71 SOUTH FRANKLIN STREET  
WILKES-BARRE, PENNSYLVANIA 18701

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X                   SUSQUEHANNA 2                   X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

=====

1. Docket: 50-289 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: C. W. SMYTH (717) 948-8551

4. Licensed Thermal Power (Mwt): 2535

5. Nameplate Rating (Gross MWe): 968 X 0.9 = 871

6. Design Electrical Rating (Net MWe): 819

7. Maximum Dependable Capacity (Gross MWe): 824

8. Maximum Dependable Capacity (Net MWe): 776

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

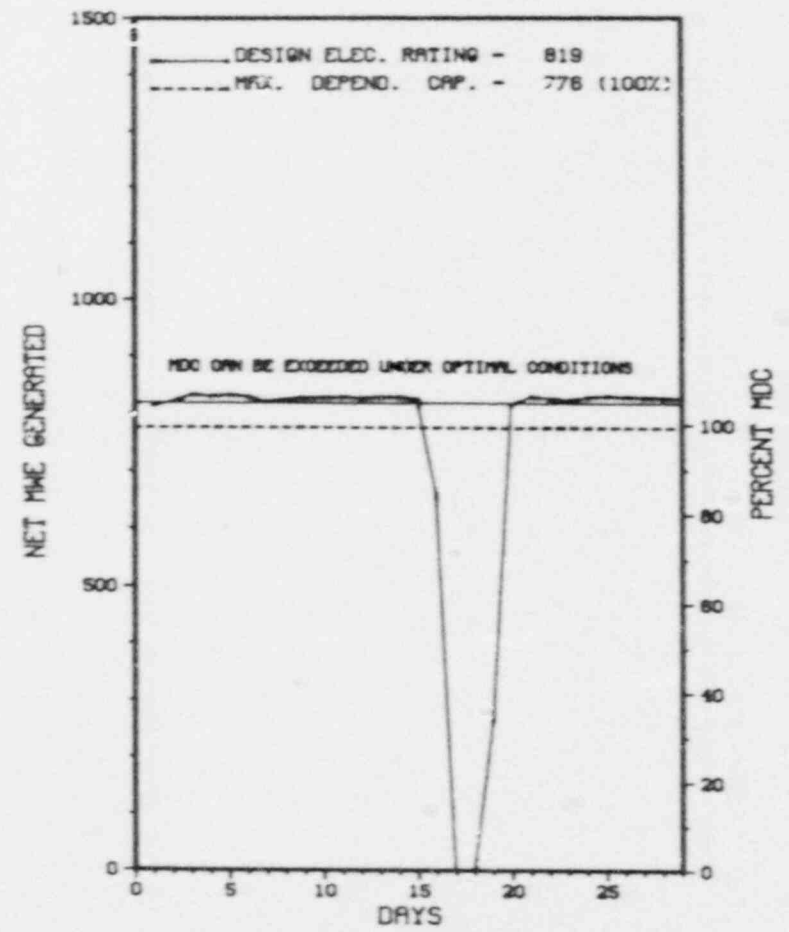
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>118,297.0</u>
13. Hours Reactor Critical	<u>634.4</u>	<u>1,378.4</u>	<u>47,898.8</u>
14. Rx Reserve Shtdwn Hrs	<u>61.6</u>	<u>61.6</u>	<u>1,947.8</u>
15. Hrs Generator On-Line	<u>632.4</u>	<u>1,376.4</u>	<u>46,976.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,586,099</u>	<u>3,460,579</u>	<u>113,948,279</u>
18. Gross Elec Ener (MWH)	<u>548,378</u>	<u>1,194,462</u>	<u>38,062,683</u>
19. Net Elec Ener (MWH)	<u>516,398</u>	<u>1,126,702</u>	<u>35,630,985</u>
20. Unit Service Factor	<u>90.9</u>	<u>95.6</u>	<u>39.7</u>
21. Unit Avail Factor	<u>90.9</u>	<u>95.6</u>	<u>39.7</u>
22. Unit Cap Factor (MDC Net)	<u>95.6</u>	<u>100.8</u>	<u>38.6*</u>
23. Unit Cap Factor (DER Net)	<u>90.6</u>	<u>95.5</u>	<u>36.8</u>
24. Unit Forced Outage Rate	<u>9.1</u>	<u>4.4</u>	<u>55.9</u>
25. Forced Outage Hours	<u>63.6</u>	<u>63.6</u>	<u>59,376.5</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING - JUNE 17, 1988 - 63 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* THREE MILE ISLAND 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
THREE MILE ISLAND 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* THREE MILE ISLAND 1 \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/16/88	F	63.6	A	1		HA	HTEXCH	SHUTDOWN DUE TO DECREASING STATOR COOLANT FLOW. PLANT WAS PUT IN HOT SHUTDOWN AND THE STATOR COOLANT SYSTEM WAS CHEMICALLY CLEANED.

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
THREE MILE ISLAND 1 INCURRED FORCED OUTAGE IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* THREE MILE ISLAND 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....PENNSYLVANIA  
COUNTY.....DAUPHIN  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...10 MI SE OF  
HARRISBURG, PA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JUNE 5, 1974  
DATE ELEC ENER 1ST GENER...JUNE 19, 1974  
DATE COMMERCIAL OPERATE...SEPTEMBER 2, 1974  
CONDENSER COOLING METHOD... COOLING TOWERS  
CONDENSER COOLING WATER...SUSQUEHANNA RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....MID-ATLANTIC  
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....GPU NUCLEAR CORP.  
CORPORATE ADDRESS.....P.O. BOX 480  
MIDDLETOWN, PENNSYLVANIA 17057  
CONTRACTOR  
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES  
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX  
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....R. CONTE  
LICENSING PROJ MANAGER.....R. HERNAN  
DOCKET NUMBER.....50-289  
LICENSE & DATE ISSUANCE...DPR-50, APRIL 19, 1974  
PUBLIC DOCUMENT ROOM.....GOVERNMENT PUBLICATIONS SECTION  
STATE LIBRARY OF PENNSYLVANIA  
FORUM BUILDING  
COMMONWEALTH AND WALNUT STREET  
HARRISBURG, PENNSYLVANIA 17105

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

CONTRARY TO TS 6.8.1, RG 1.33, IC-15, PARA 6.14, ON OCTOBER 14, 1987, LEADS FOR IMPORTANT T-TO-SAFETY D/P SWITCH NR-DPS-138 WERE LIFTE D AND RECONNECTED WITHOUT COMPLETION OF THE REQUIREMENTS OF AP1013, ENCLOSURE 5. ADDITIONALLY, THE APPROPRIATE STEP OF PROCEDURE IC-15 WAS MARKED "M/A" WHEN IN EFFECT IT SHOULD HAVE BEEN PERFORMED AS REQUIRED BY IC-15.  
(8701 5,

OTHER ITEMS

SYSTEMS AND COMPONENTS:

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*            T H R E E   M I L E   I S L A N D   1            \*  
\*\*\*\*\*

OTHER ITEMS

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NO INPUT PROVIDED.

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1. Docket: 50-344                    O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: F. J. UHMER (503) 556-3713 X495

4. Licensed Thermal Power (MWh):                    3411

5. Nameplate Rating (Gross MWe):                    1286 X 0.95 = 1216

6. Design Electrical Rating (Net MWe):                    1130

7. Maximum Dependable Capacity (Gross MWe):                    1153

8. Maximum Dependable Capacity (Net MWe):                    1095

9. If Changes Occur Above Since Last Report, Give Reasons:  
MDC RATINGS DUE TO IMPROVED PLANT PERFORMANCE FROM UPGRADE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

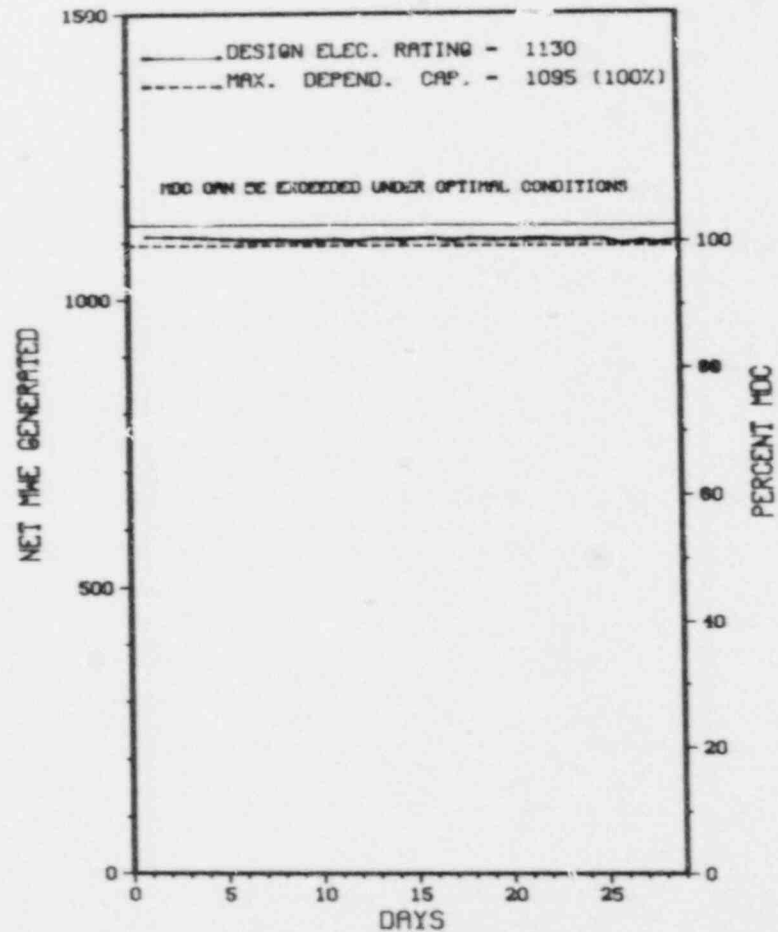
\*\*\*\*\*  
 \*                    TROJAN                    \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
 TROJAN

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>100,776.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,310.3</u>	<u>63,658.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,875.4</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,310.9</u>	<u>61,982.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,237.0</u>
17. Gross Therm Ener (MWH)	<u>2,372,769</u>	<u>4,451,080</u>	<u>197,796,444</u>
18. Gross Elec Ener (MWH)	<u>803,790</u>	<u>1,509,692</u>	<u>64,397,763</u>
19. Net Elec Ener (MWH)	<u>769,380</u>	<u>1,439,617</u>	<u>60,938,894</u>
20. Unit Service Factor	<u>100.0</u>	<u>91.0</u>	<u>61.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>91.0</u>	<u>64.7</u>
22. Unit Cap Factor (MDC Net)	<u>101.0</u>	<u>91.3</u>	<u>55.2</u>
23. Unit Cap Factor (DER Net)	<u>97.8</u>	<u>88.5</u>	<u>53.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>9.0</u>	<u>13.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>129.1</u>	<u>9,932.6</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING - APRIL 15, 1988, 49 DAY DURATION

27. If Currently Shutdown Estimated Startup Date: N/A



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* TROJAN \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

XXXXXXXXXXXX TROJAN OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR  
\* SUMMARY \* SIGNIFICANT POWER REDUCTIONS.  
XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure F-Admin	1-Manual	Exhibit F & d
S-Sched	B-Maint or Test G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* TROJAN \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....OREGON  
COUNTY.....COLUMBIA  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...32 MI N OF  
PORTLAND, ORE  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...DECEMBER 15, 1975  
DATE ELEC ENER 1ST GENR...DECEMBER 23, 1975  
DATE COMMERCIAL OPERATE...MAY 20, 1976  
CONDENSER COOLING METHOD...COOLING TOWERS  
CONDENSER COOLING WATER...COOLING TOWER  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....PORTLAND GENERAL ELECTRIC  
CORPORATE ADDRESS.....121 S.W. SALMON STREET  
PORTLAND, OREGON 97204  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....R. BARR  
LICENSING PROJ MANAGER....T. CHAN  
DOCKET NUMBER.....50-344  
LICENSE & DATE ISSUANCE...NPF-1, NOVEMBER 21, 1975  
PUBLIC DOCUMENT ROOM.....LIBRARY ASSOCIATION OF PORTLAND  
SOCIAL SCIENCES & SCIENCE DEPARTMENT  
801 SW 10TH AVENUE  
PORTLAND, OREGON 97207

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

- + INSPECTION ON NOVEMBER 1, 1986 - NOVEMBER 30, 1987 (REPORT NO. 50-344/87-41) YEARLY SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE; TO BE REPORTED AT A LATER DATE.
- + INSPECTION ON JANUARY 3 - FEBRUARY 13, 1988 (REPORT NO. 50-344/88-03) AREAS INSPECTED: ROUTINE INSPECTION OF OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, PHYSICS TESTING AND EVENT FOLLOW-UP. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.
- RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.
- + INSPECTION ON FEBRUARY 8 - MARCH 4, 1988 (REPORT NO. 50-344/88-04) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON FEBRUARY 19 - MARCH 11, 1988 (REPORT NO. 50-344/88-05) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON FEBRUARY 22-26, 1988 (REPORT NO. 50-344/88-06) AREAS INSPECTED: THIS ROUTINE, UNANNOUNCED INSPECTION BY THE PROJECT INSPECTOR INVOLVED THE AREAS OF NONLICENSED STAFF TRAINING, FOLLOWUP ITEMS, AND FOLLOWUP ITEMS OF NONCOMPLIANCE. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.
- RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

INSPECTION SUMMARY

+ MANAGEMENT MEETING ON FEBRUARY 1, 1988 (REPORT NO. 50-344/88-07) ON THE ABOVE DATE, A MANAGEMENT MEETING WAS HELD TO REVIEW FAILURES OF BARTON PRESSURE TRANSMITTERS AT THE TROJAN NUCLEAR FACILITY.

+ INSPECTION ON FEBRUARY 14 - MARCH 36, 1988 (REPORT NO. 50-344/88-08) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

ENFORCEMENT SUMMARY

PLANT TECHNICAL SPECIFICATION 4.0.5 PROVIDES REQUIREMENTS FOR PERIODIC INSERVICE TESTING AND STATES IN PART THAT, "INSERVICE... TESTING OF ASME CODE CLASS 1, 2, AND 3 PUMPS AND VALVES SHALL BE PERFORMED IN ACCORDANCE WITH SECTION XI OF THE ASME BOILER AND PRESSURE VESSEL CODE..." TO MEET THE SURVEILLANCE REQUIREMENTS OF ASME SECTION XI, THE FOURTH SENTENCE OF PARAGRAPH 6.1.4.2 (PUMPS) OF PET-9-4 (REVISION 7) STATES, "THE PLANT TEST ENGINEER OR DESIGNEE SHALL REVIEW THE TEST TO DETERMINE THE NEED FOR INCREASED FREQUENCY OF TESTING ON THE ALERT LIST," AND THE LAST SENTENCE OF PARAGRAPH 6.2 (VALVES) STATES, "IST-RELATED PARAMETERS SHALL BE COMPARED TO THE DATA (FROM THE MOST RECENT, PREVIOUS DATA) FOR EACH VALVE, AND WILL BE USED TO DETERMINE THE ULTIMATE OPERABILITY OF THAT VALVE." CONTRARY TO THE STATED REQUIREMENTS, DATA SHEET POT-5-1-DA FOR POT-5-1 AUXILIARY FEEDWATER SYSTEM TESTING PERFORMED ON DECEMBER 23, 1987, WAS FILED IN THE LICENSEE'S RECORDS VAULT WITHOUT A PLANT TEST ENGINEER SIGNATURE AND THE APPLICABLE IST DATA HAD NOT BEEN REVIEWED AND LOGGED IN THE ASSOCIATED 1987 IST PUMP AND VALVE DATA LOG FOR PROCEDURE DATA SHEET POT-5-1-DA/DB. MEMBERS OF THE ASME SURVEILLANCE AND TESTING GROUP WERE UNABLE TO VERIFY THAT THEY HAD REVIEWED DATA SHEET POT-5-1-DA DATA TO DETERMINE IF INCREASE TESTING WAS REQUIRED OR HAD COMPARED THE DECEMBER 23, 1987, DATA TO THE MOST RECENT PREVIOUS DATA.  
(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER LEVEL 100%.

LAST IE SITE INSPECTION DATE: 02/14 - 03/26/88+

INSPECTION REPORT NO: 50-344/88-08+

Report Period FEB 1988

R E P O R T S F R O M L I C E N S E E

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
K TROJAN  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

NUMBER DATE OF DATE OF SUBJECT  
EVENT REPORT REPORT

NONE

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1. Docket: 50-250 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (Mwt): 2200

5. Nameplate Rating (Gross MWe): 894 X 0.85 = 760

6. Design Electrical Rating (Net MWe): 693

7. Maximum Dependable Capacity (Gross MWe): 700

8. Maximum Dependable Capacity (Net MWe): 666

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):         

11. Reasons for Restrictions, If Any:           
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>133,569.6</u>
13. Hours Reactor Critical	<u>210.5</u>	<u>511.9</u>	<u>90,206.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>844.3</u>
15. Hrs Generator On-Line	<u>189.4</u>	<u>469.1</u>	<u>87,264.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>121.8</u>
17. Gross Therm Ener (MWH)	<u>370,671</u>	<u>889,041</u>	<u>180,693,306</u>
18. Gross Elec Ener (MWH)	<u>120,325</u>	<u>280,685</u>	<u>57,878,686</u>
19. Net Elec Ener (MWH)	<u>106,581</u>	<u>254,512</u>	<u>54,733,298</u>
20. Unit Service Factor	<u>27.2</u>	<u>32.6</u>	<u>65.3</u>
21. Unit Avail Factor	<u>27.2</u>	<u>32.6</u>	<u>65.4</u>
22. Unit Cap Factor (MDC Net)	<u>23.0</u>	<u>26.5</u>	<u>62.9*</u>
23. Unit Cap Factor (DER Net)	<u>22.1</u>	<u>25.5</u>	<u>59.1</u>
24. Unit Forced Outage Rate	<u>72.8</u>	<u>67.1</u>	<u>11.0</u>
25. Forced Outage Hours	<u>506.6</u>	<u>955.0</u>	<u>10,202.3</u>

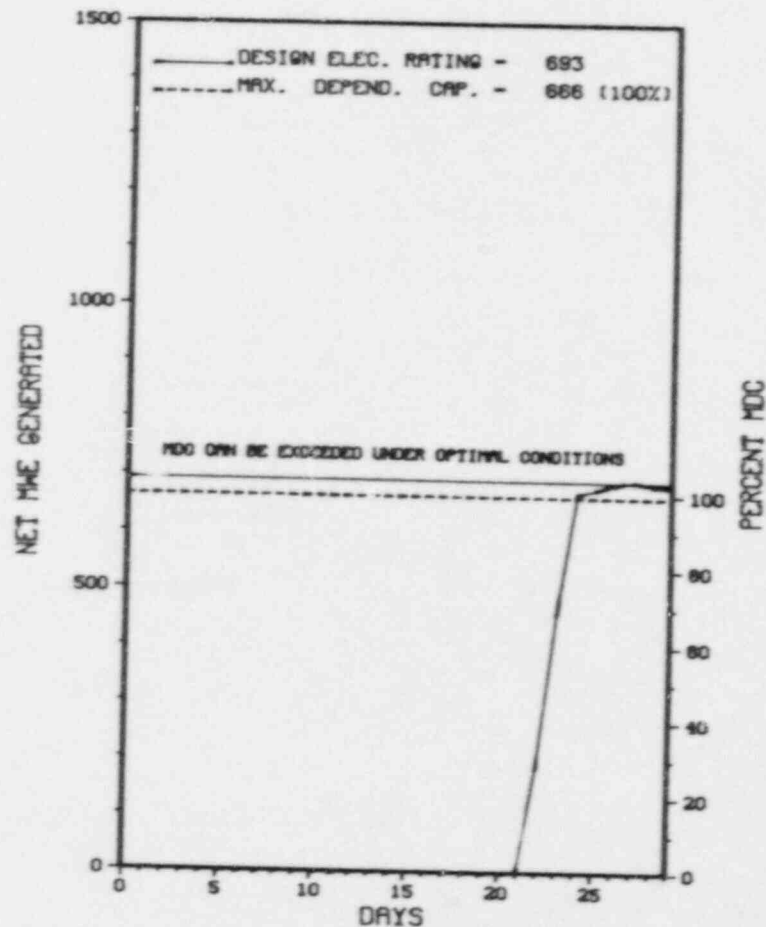
26. Shutdowns Sced Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XX  
\* TURKEY POINT 3 \*  
XX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TURKEY POINT 3



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* TURKEY POINT 3 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
02	01/13/88	F	506.6	A	4		RB	CRDRVE	UNIT #3 REMAINED SHUTDOWN TO REPAIR THE 'C' REACTOR COOLANT PUMP SEAL, A LEAKING 'A' RESIDUAL HEAT REMOVAL PUMP SEAL AND A FAILED GATE FILTER MODULE CARD ON THE BATTERY CHARGERS, TO PERFORM MAINTENANCE ON THE SOURCE RANGE DETECTORS, AND TO PERFORM SEVERAL OTHER MINOR REPAIRS AND ADJUSTMENTS. FOLLOWING COMPLETION OF THESE ITEMS THE UNIT WAS RETURNED TO POWER OPERATION, HOLDS WERE EXPERIENCED AT 30% POWER FOR SECONDARY CHEMISTRY AND AGAIN AT 50% POWER TO MAKE CONTROL ROD POSITION INDICATION ADJUSTMENTS.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 TURKEY POINT 3 ENTERED MONTH SHUTDOWN. SUBSEQUENTLY RETURNED TO POWER ON FEBRUARY 22.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



\*\*\*\*\*  
\* TURKEY POINT 3 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....FLORIDA  
  
COUNTY.....DADE  
  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI S OF  
MIAMI, FLA  
  
TYPE OF REACTOR.....PWR  
  
DATE INITIAL CRITICALITY...OCTOBER 20, 1972  
DATE ELEC ENER 1ST GENER...NOVEMBER 2, 1972  
DATE COMMERCIAL OPERATE...DECEMBER 14, 1972  
  
CONDENSER COOLING METHOD...CLOSED CANAL  
CONDENSER COOLING WATER...CLOSED CYCLE CANAL  
  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....FLORIDA POWER & LIGHT  
  
CORPORATE ADDRESS.....9250 WEST FLAGLER STREET P.O. BOX 013100  
MIAMI, FLORIDA 33174  
  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
  
CONSTRUCTOR.....BECHTEL  
  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....R. BREWER  
LICENSING PROJ MANAGER....G. EDISON  
DOCKET NUMBER.....50-250  
  
LICENSE & DATE ISSUANCE...DPR-31, JULY 19, 1972  
  
PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL AND URBAN AFFAIRS LIBRARY  
FLORIDA INTERNATIONAL UNIVERSITY  
MIAMI, FLORIDA 33199

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 23 - DECEMBER 28 (87-51): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTIONS, IN THE AREAS OF ANNUAL AND MONTHLY SURVEILLANCE, MAINTENANCE OBSERVATIONS AND REVIEWS, ENGINEERED SAFETY FEATURES, OPERATIONAL SAFETY, FACILITY MODIFICATIONS AND PLANT EVENTS. ONE VIOLATION WITH TWO EXAMPLES FOR FAILURE TO MEET THE REQUIREMENTS OF TECHNICAL SPECIFICATION 6.8.1 WAS IDENTIFIED.

INSPECTION DECEMBER 14 - DECEMBER 18 (87-52): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF PREVIOUS OPEN ITEMS, PIPE SUPPORT BASE PLATE DESIGN USING CONCRETE EXPANSION ANCHOR BOLTS (IEB 79-02), AND SEISMIC ANALYSES FOR AS-BUILT SAFETY-RELATED PIPING SYSTEMS (IEB 79-14). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 8-12 (88-03): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY ORGANIZATION; TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AREA; ACCESS CONTROL OF PERSONNEL AND VEHICLES; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; AND SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW. THREE VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED: 88-03-01 UNDERGROUND PATHWAY INTO PROTECTED AREA; 88-03-02 UNALARMED PROTECTED AREA BARRIER; 88-03-03 INADEQUATE TESTING.

ENFORCEMENT SUMMARY

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, REGULATORY GUIDE 1.33, APPENDIX A: (1) LICENSEE PROCEDURE HPA-002, AUGUST 12, 1986, SECTION 3.2.1 AND RWP 87-2318, RCA & RADWASTE BUILDING (RWB) HIGH LEVEL STORAGE AREA (HLSA) TRANSPORT HIGH LEVEL RADIOACTIVE MATERIAL TO AND FROM RWB HLSA, DATED JANUARY 1, 1987, ON SEPTEMBER 30, 1987, PROPER NOTIFICATION WAS NOT PROVIDED TO THE PLANT SUPERVISOR NUCLEAR NOR WATCH ENGINEER PRIOR TO MOVING A HIGH RADIATION LEVEL, 40 R/HR, SEAL WATER INJECTION PUMP FILTER. (2) PLANT PROCEDURE HPI-8, REMOVAL AND TRANSFER OF REACTOR COOLANT SYSTEM FILTER SYSTEM, DATED OCTOBER 8, 1987, AS OF DECEMBER 11, 1987, RADIOLOGICAL CONTROLS SPECIFIED IN THE PROCEDURE WERE INADEQUATE IN THAT DOSE RATES FOR MODIFYING, LIMITING, AND OR TERMINATING ACTIVITIES DURING THE WORK EVOLUTION WERE NOT SPECIFIED. (3) PLANT PROCEDURE HP-101, RADIOLOGICAL INVESTIGATION REPORTS, DATED JUNE 23, 1987, AS OF DECEMBER 11, 1987, THE PROCEDURE WAS INADEQUATE IN THAT A PERSONNEL CONTAMINATION EVENT OCCURRING ON MAY 21, 1987, REQUIRING EXTENSIVE DECONTAMINATION EFFORTS AND SUBSEQUENT PRECAUTIONARY WHOLE BODY COUNTING ANALYSES AND INTERNAL EXPOSURE EVALUATIONS, WAS NOT REQUIRED TO BE DOCUMENTED BY RADIATION INVESTIGATION REPORTS. (4) PLANT PROCEDURE HP-101, RADIOLOGICAL INVESTIGATION REPORTS, DATED JUNE 23, 1987, THE LICENSEE FAILED TO MAINTAIN THE INVESTIGATION REPORT AND/OR RECORDS INDICATING THAT THE HEALTH PHYSICS SUPERVISOR HAD REVIEWED, RECOMMENDED, AND CONCURRED WITH, CORRECTIVE ACTIONS TAKEN IN REGARD TO A RADIATION INCIDENT REPORT ISSUED ON SEPTEMBER 29, 1987, REGARDING CONTAMINATED MATERIAL FOUND OUTSIDE OF THE RADIATION CONTROL AREA.  
(8704 4)

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, APPENDIX A OF REGULATORY GUIDE 1.33, ADMINISTRATIVE PROCEDURE (AP) 0103.2, AND ADMINISTRATIVE PROCEDURE O-ADM-207: (1) THE REQUIREMENTS OF AP 0103.2 WERE NOT PROPERLY IMPLEMENTED IN SEPTEMBER 1987 IN THAT, ON NUMEROUS OCCASIONS SHIFT RELIEF TURNOVERS WERE NOT DOCUMENTED IN THE REACTOR OPERATOR'S LOGBOOK AND CHECKLISTS WERE NOT PROPERLY AND THOROUGHLY COMPLETED. (2) ON SEPTEMBER 13, 1987, ACTIONS WERE TAKEN UNDER THE GUIDELINES OF PROCEDURE O-ADM-207 WHICH WERE NOT PROMPTLY RECORDED IN THE PLANT SUPERVISOR'S LOGBOOK. SUBSEQUENTLY, DOCUMENTATION OF THE ACTIONS TAKEN WERE NOT REVIEWED BY THE PLANT NUCLEAR SAFETY COMMITTEE.  
(8705 5)

OTHER ITEMS

## SYSTEMS AND COMPONENT PROBLEMS:

SELECT SAFETY SYSTEM OPERABILITY REVIEW IN PROGRESS.

FACILITY I: PLANS AND PROCEDURES:

PROCEDURE U: PROGRAM (PUP) IN PROGRESS.

## MANAGERIAL ITEMS:

PEP IN PROGRESS.

## PLANT STATUS:

NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: FEBRUARY 8-12, 1988 +

INSPECTION REPORT NO: 50-250/88-03 +

Report Period FEB 1988

REPORTS FROM LICENSEE

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* TURKEY POINT 3 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/13/88	02/12/88	TURBINE RUNBACK DUE TO DROPPED CONTROL ROD AND SUBSEQUENT MANUAL SUBCRITICAL REACTOR TRIP ADD CONTROL RODS DROPPED/CO

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1. Docket: 50-251                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (Mwt):                      2200

5. Nameplate Rating (Gross MWe):                      894 X 0.85 = 760

6. Design Electrical Rating (Net MWe):                      693

7. Maximum Dependable Capacity (Gross MWe):                      700

8. Maximum Dependable Capacity (Net MWe):                      666

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

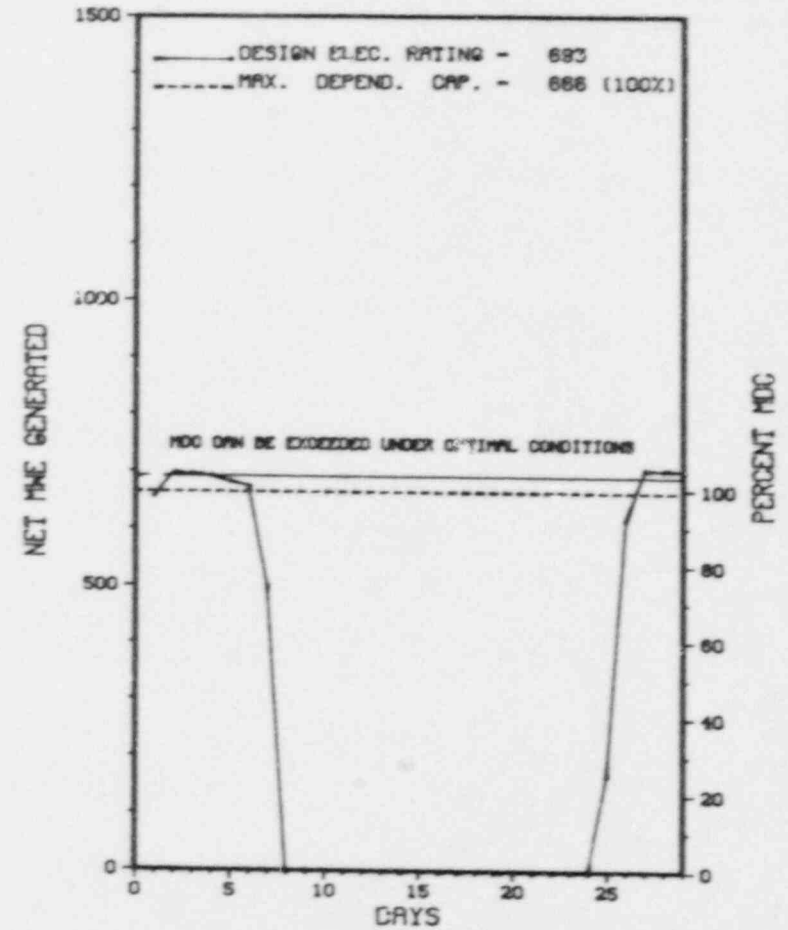
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>127,297.0</u>
13. Hours Reactor Critical	<u>292.3</u>	<u>1,036.3</u>	<u>86,223.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>166.6</u>
15. Hrs Generator On-Line	<u>282.5</u>	<u>1,026.5</u>	<u>83,239.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>31.2</u>
17. Gross Therm Ener (MWH)	<u>575,809</u>	<u>2,208,360</u>	<u>175,672,983</u>
18. Gross Elec Ener (MWH)	<u>189,335</u>	<u>730,175</u>	<u>56,029,999</u>
19. Net Elec Ener (MWH)	<u>175,903</u>	<u>692,539</u>	<u>53,014,370</u>
20. Unit Service Factor	<u>40.6</u>	<u>71.3</u>	<u>65.4</u>
21. Unit Avail Factor	<u>40.6</u>	<u>71.3</u>	<u>65.4</u>
22. Unit Cap Factor (MDC Net)	<u>37.9</u>	<u>72.2</u>	<u>63.9*</u>
23. Unit Cap Factor (DER Net)	<u>36.5</u>	<u>69.4</u>	<u>60.1</u>
24. Unit Forced Outage Rate	<u>59.3</u>	<u>28.7</u>	<u>11.1</u>
25. Forced Outage Hours	<u>412.3</u>	<u>412.3</u>	<u>9,993.2</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                      TURKEY POINT 4                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
TURKEY POINT 4



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* TURKEY POINT 4 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
01	02/01/88	F	0.0	A	5		HA	XXXXXX	UNIT #4 REDUCED POWER TO ADJUST THE TURBINE GOVERNOR IMPELLER OIL ADJUSTABLE ORIFICE DUE TO A TURBINE GOVERNOR IMPELLER OIL PRESSURE PROBLEM. THE REACTOR WAS THEN RETURNED TO POWER OPERATION.
02	02/05/88	F	0.0	A	5		HA	XXXXXX	THE UNIT AGAIN REDUCED POWER FOR ADJUSTMENTS TO THE TURBINE GOVERNOR IMPELLER OIL ADJUSTABLE ORIFICE, DUE TO A TURBINE GOVERNOR IMPELLER OIL PRESSURE PROBLEM. THE REACTOR WAS THEN RETURNED TO POWER.
03	02/07/88	F	412.3	A	1	251-88-003	EC	BATTERY	A REACTOR SHUTDOWN WAS PERFORMED DUE TO THE LOSS OF THE 4A AND 4S BATTERY CHARGERS CAUSED BY THE FAILURE OF THE GATE FILTER MODULE CARD. WHILE THE UNIT WAS DOWN WORK WAS ALSO PERFORMED ON THE B RCP MOTOR AND THE CRDM CABLES.
04	02/24/88	F	0.0	A	5		HA	TURBIN	A POWER REDUCTION WAS INITIATED TO ALLOW FOR PERFORMANCE OF THE TURBINE OVERSPEED TEST. FOLLOWING COMPLETION OF THIS TEST, THE UNIT WAS RETURNED TO POWER OPERATION AT WHICH TIME A HOLD WAS EXPERIENCED AT 30% POWER DUE TO SECONDARY SIDE CHEMISTRY.
05	02/25/88	S	1.2	B	1		HA	TURBIN	TURBINE OVERSPEED TEST.

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 \* SUMMARY \*  
 \*\*\*\*\*  
 TURKEY POINT 4 INCURRED 3 POWER REDUCTIONS AND 2 OUTAGES IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

FACILITY DESCRIPTION

LOCATION  
STATE.....FLORIDA  
COUNTY.....DADE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI S OF  
MIAMI, FLA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JUNE 11, 1973  
DATE ELEC ENER 1ST GENER...JUNE 21, 1973  
DATE COMMERCIAL OPERATE...SEPTEMBER 7, 1973  
CONDENSER COOLING METHOD...CLOSED CANAL  
CONDENSER COOLING WATER...CLOSED CYCLE CANAL  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....FLORIDA POWER & LIGHT  
CORPORATE ADDRESS.....9250 WEST FLAGLER STREET P.O. BOX 013100  
MIAMI, FLORIDA 33174  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....R. BREWER  
LICENSING PROJ MANAGER.....G. EDISON  
DOCKET NUMBER.....50-251  
LICENSE & DATE ISSUANCE...DPR-41, APRIL 10, 1973  
PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL AND URBAN AFFAIRS LIBRARY  
FLORIDA INTERNATIONAL UNIVERSITY  
MIAMI, FLORIDA 33199

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 23 - DECEMBER 28 (87-51): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTIONS, IN THE AREAS OF ANNUAL AND MONTHLY SURVEILLANCE, MAINTENANCE OBSERVATIONS AND REVIEWS, ENGINEERED SAFETY FEATURES, OPERATIONAL SAFETY, FACILITY MODIFICATIONS AND PLANT EVENTS. ONE VIOLATION WITH TWO EXAMPLES FOR FAILURE TO MEET THE REQUIREMENTS OF TECHNICAL SPECIFICATION 6.8.1 WAS IDENTIFIED.

INSPECTION DECEMBER 14 - DECEMBER 18 (87-52): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF PREVIOUS OPEN ITEMS, PIPE SUPPORT BASE PLATE DESIGN USING CONCRETE EXPANSION ANCHOR BOLTS (IEB 79-02), AND SEISMIC ANALYSES FOR AS-BUILT SAFETY-RELATED PIPING SYSTEMS (IEB 79-14). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 8-12 (88-03): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY ORGANIZATION; TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AREA; ACCESS CONTROL OF PERSONNEL AND VEHICLES; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; AND SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW. THREE VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED: 88-03-01 UNDERGROUND PATHWAY INTO PROTECTED AREA; 88-03-02 UNALARMED PROTECTED AREA BARRIER; 88-03-03 INADEQUATE TESTING.

ENFORCEMENT SUMMARY

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, REGULATORY GUIDE 1.33, APPENDIX A: (1) LICENSEE PROCEDURE HPA-002, AUGUST 12, 1986, SECTION 3.2.1 AND RWP 87-2318, RCA & RADWASTE BUILDING (RWB) HIGH LEVEL STORAGE AREA (HLSA) TRANSPORT HIGH LEVEL RADIOACTIVE MATERIAL TO AND FROM RWB HLSA, DATED JANUARY 1, 1987, ON SEPTEMBER 30, 1987, PROPER NOTIFICATION WAS NOT PROVIDED TO THE PLANT SUPERVISOR NUCLEAR NOR WATCH ENGINEER PRIOR TO MOVING A HIGH RADIATION LEVEL, 40 R/HR, SEAL WATER INJECTION PUMP FILTER. (2) PLANT PROCEDURE HPI-8, REMOVAL AND TRANSFER OF REACTOR COOLANT SYSTEM FILTER SYSTEM, DATED OCTOBER 8, 1987, AS OF DECEMBER 11, 1987, RADIOLOGICAL CONTROLS SPECIFIED IN THE PROCEDURE WERE INADEQUATE IN THAT DOSE RATES FOR MODIFYING, LIMITING, AND OR TERMINATING ACTIVITIES DURING THE WORK EVOLUTION WERE NOT SPECIFIED. (3) PLANT PROCEDURE HP-101, RADIOLOGICAL INVESTIGATION REPORTS, DATED JUNE 23, 1987, AS OF DECEMBER 11, 1987, THE PROCEDURE WAS INADEQUATE IN THAT A PERSONNEL CONTAMINATION EVENT OCCURRING ON MAY 21, 1987, REQUIRING EXTENSIVE DECONTAMINATION EFFORTS AND SUBSEQUENT PRECAUTIONARY WHOLE BODY COUNTING ANALYSES AND INTERNAL EXPOSURE EVALUATIONS, WAS NOT REQUIRED TO BE DOCUMENTED BY RADIATION INVESTIGATION REPORTS. (4) PLANT PROCEDURE HP-101, RADIOLOGICAL INVESTIGATION REPORTS, DATED JUNE 23, 1987, THE LICENSEE FAILED TO MAINTAIN THE INVESTIGATION REPORT AND/OR RECORDS INDICATING THAT THE HEALTH PHYSICS SUPERVISOR HAD REVIEWED, RECOMMENDED, AND CONCURRED WITH, CORRECTIVE ACTIONS TAKEN IN REGARD TO A RADIATION INCIDENT REPORT ISSUED ON SEPTEMBER 29, 1987, REGARDING CONTAMINATED MATERIAL FOUND OUTSIDE OF THE RADIATION CONTROL AREA.  
(8704 4)

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, APPENDIX A OF REGULATORY GUIDE 1.33, ADMINISTRATIVE PROCEDURE (AP) 0103.2, AND ADMINISTRATIVE PROCEDURE 0-ADM-207: (1) THE REQUIREMENTS OF AP 0103.2 WERE NOT PROPERLY IMPLEMENTED IN SEPTEMBER 1987 IN THAT, ON NUMEROUS OCCASIONS SHIFT RELIEF TURNS WERE NOT DOCUMENTED IN THE REACTOR OPERATOR'S LOGBOOK AND CHECKLISTS WERE NOT PROPERLY AND THOROUGHLY COMPLETED. (2) ON SEPTEMBER 13, 1987, ACTIONS WERE TAKEN UNDER THE GUIDELINES OF PROCEDURE 0-ADM-207 WHICH WERE NOT PROMPTLY RECORDED IN THE PLANT SUPERVISOR'S LOGBOOK. SUBSEQUENTLY, DOCUMENTATION OF THE ACTIONS TAKEN WERE NOT REVIEWED BY THE PLANT NUCLEAR SAFETY COMMITTEE.  
(8705 5)

OTHER ITEMS

## SYSTEMS AND COMPONENT PROBLEMS:

SELECT SAFETY SYSTEM OPERABILITY REVIEW IN PROGRESS.

## FACILITY ITEMS (PLANS AND PROCEDURES):

PROCEDURE UPGRADE PROGRAM (PUP) IN PROGRESS.

## MANAGERIAL ITEMS:

PEP IN PROGRESS.

## PLANT STATUS:

REFUELING OUTAGE. PLANT IN COLD SHUTDOWN.

LAST IE SITE INSPECTION DATE: FEBRUARY 8-12, 1988 +

INSPECTION REPORT NO: 50-251/88-03 +



Report Period FEB 1988

R E P O R T S F R O M L I C E N S E E

XX  
M TURKEY POINT 4 M  
XX

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
-----			

NONE.

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1. Docket: 50-271 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: G. A. WALLIN (802) 257-7711 X2272

4. Licensed Thermal Power (MWh): 1593

5. Nameplate Rating (Gross MWe): 626 X 0.9 = 563

6. Design Electrical Rating (Net MWe): 514

7. Maximum Dependable Capacity (Gross MWe): 535

8. Maximum Dependable Capacity (Net MWe): 504

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>135,362.8</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>106,285.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>103,730.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,106,829</u>	<u>2,275,982</u>	<u>152,016,680</u>
18. Gross Elec Ener (MWH)	<u>375,140</u>	<u>770,667</u>	<u>50,610,611</u>
19. Net Elec Ener (MWH)	<u>360,034</u>	<u>739,522</u>	<u>48,034,609</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>76.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>76.6</u>
22. Unit Cap Factor (MDC Net)	<u>102.6</u>	<u>101.9</u>	<u>70.4</u>
23. Unit Cap Factor (DER Net)	<u>100.6</u>	<u>99.9</u>	<u>69.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>6.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>5,593.4</u>

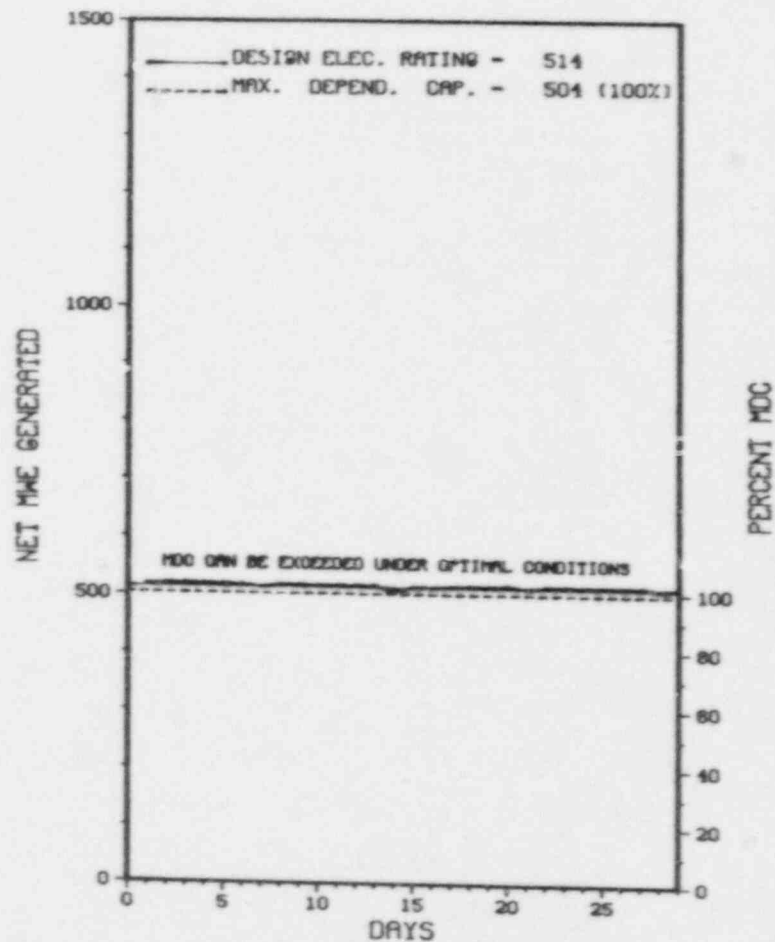
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* VERMONT YANKEE 1 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

AVERAGE DAILY POWER LEVEL (MWe) PLOT

VERMONT YANKEE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X VERMONT YANKEE 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
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NONE

XXXXXXXXXXXX VERMONT YANKEE OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES  
X SUMMARY X OR SIGNIFICANT POWER REDUCTIONS.  
XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* VERMONT YANKEE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....VERMONT  
COUNTY.....WINDHAM  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...5 MI S OF  
BRATTLEBORO, VT  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...MARCH 24, 1972  
DATE ELEC ENER 1ST GENER...SEPTEMBER 20, 1972  
DATE COMMERCIAL OPERATE...NOVEMBER 30, 1972  
CONDENSER COOLING METHOD...COOLING TOWER  
CONDENSER COOLING WATER...CONNECTICUT RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....VERMONT YANKEE NUCLEAR POWER  
CORPORATE ADDRESS.....RD #5, BOX 169, FERRY ROAD  
BRATTLEBORO, VERMONT 05301  
CONTRACTOR  
ARCHITECT/ENGINEER.....EBASCO  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....EBASCO  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....W. RAYMOND  
LICENSING PROJ MANAGER.....V. ROONEY  
DOCKET NUMBER.....50-271  
LICENSE & DATE ISSUANCE...DPR-28, FEBRUARY 28, 1973  
PUBLIC DOCUMENT ROOM.....BROOKS MEMORIAL LIBRARY  
224 MAIN STREET  
BRATTLEBORO, VERMONT 05301

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

I N S P E C T I O N   S T A T U S

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

\*\*\*\*\*  
\*                   VERMONT YANKEE 1                   \*  
\*\*\*\*\*

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

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1. Docket: 50-424 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: S. C. DILWORTH (404) 724-8114 X3870

4. Licensed Thermal Power (Mwt): 3411

5. Nameplate Rating (Gross MWe): 1157

6. Design Electrical Rating (Net MWe): 1101

7. Maximum Dependable Capacity (Gross MWe): 1133

8. Maximum Dependable Capacity (Net MWe): 1079

9. If Changes Occur Above Since Last Report, Give Reasons: NONE

10. Power Level To Which Restricted, If Any (Net MWe):                     

11. Reasons for Restrictions, If Any:                     

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>6,577.0</u>
13. Hours Reactor Critical	<u>473.3</u>	<u>876.3</u>	<u>4,924.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-line	<u>433.1</u>	<u>836.1</u>	<u>4,756.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,387,377</u>	<u>2,752,657</u>	<u>15,413,595</u>
18. Gross Elec Ener (MWH)	<u>456,710</u>	<u>915,530</u>	<u>5,099,420</u>
19. Net Elec Ener (MWH)	<u>422,900</u>	<u>846,730</u>	<u>4,768,250</u>
20. Unit Service Factor	<u>62.2</u>	<u>58.1</u>	<u>72.3</u>
21. Unit Avail Factor	<u>62.2</u>	<u>58.1</u>	<u>72.3</u>
22. Unit Cap Factor (MDC Net)	<u>56.3</u>	<u>54.5</u>	<u>67.2</u>
23. Unit Cap Factor (NER Net)	<u>55.2</u>	<u>53.4</u>	<u>65.8</u>
24. Unit Forced Outage Rate	<u>37.8</u>	<u>40.0</u>	<u>29.9</u>
25. Forced Outage Hours	<u>262.9</u>	<u>556.8</u>	<u>1,500.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

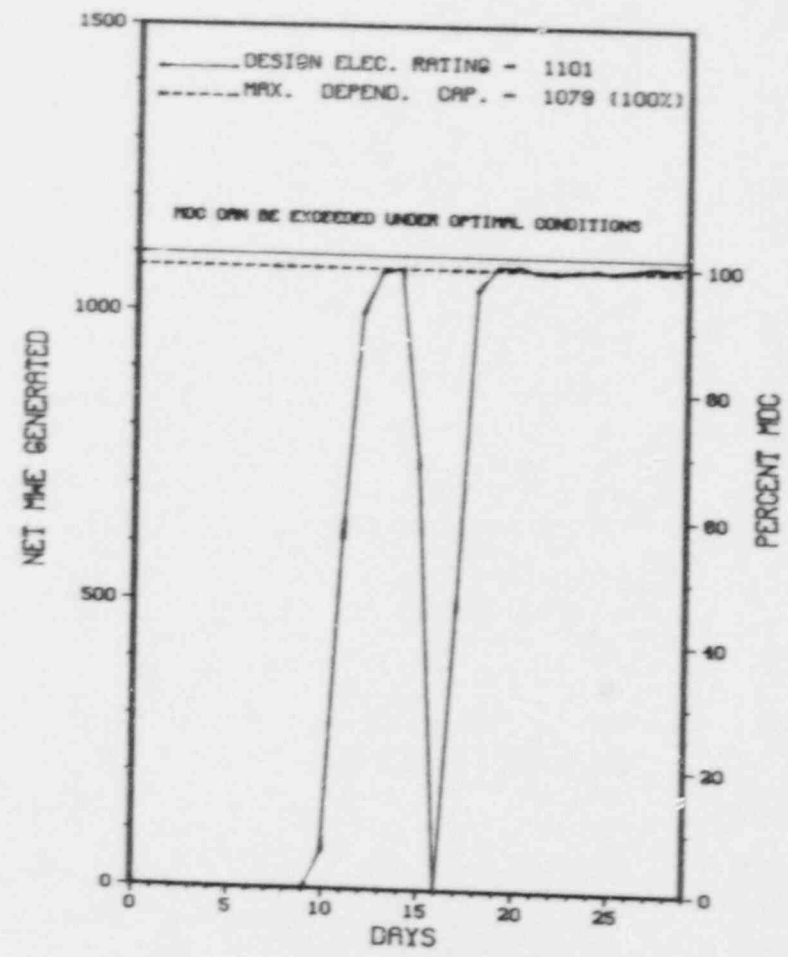
REFUELING, SEPT. 2, 1988, 50 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

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 X VOGTLE 1 X  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

VOGTLE 1



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 X VOGTLE 1 X  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-3	01/23/88	F	227.3	A	4		EA	RLY:1	THIS IS A CONTINUATION OF JANUARY'S OUTAGE WITH THE RHR CROSSOVER VALVES 1HV-8716A AND B BEING THE CRITICAL ITEM. RHR CROSSOVER VALVES REPAIRED.
88-4	02/15/88	F	35.6	G	3		EL	GEN	THE CAUSE OF THE EVENT WAS PERSONNEL ERROR. THE MAINTENANCE ELECTRICIAN TOOK COLLECTOR READINGS USING A STEEL DOWEL INSTEAD OF A WOODEN DOWEL, CAUSING A SHORT TO GROUND. THE MAINTENANCE FOREMAN HAS BEEN COUNSELED, EMPHASIZING THE IMPORTANCE OF UNDERSTANDING MWD WORK INSTRUCTIONS AND INSURING HIS WORKMEN UNDERSTAND HOW TO PROPERLY PERFORM THE ASSIGNED TASKS.

XXXXXXXXXXXX VOGTLE 1 INCURRED 2 OUTAGES IN FEBRUARY FOR REASONS STATED  
 X SUMMARY X ABOVE.  
 XXXXXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)



FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....GEORGIA  
COUNTY.....BURKE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI SSE OF  
AUGUSTA, GA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MARCH 9, 1987  
DATE ELEC ENER 1ST GENER...MARCH 27, 1987  
DATE COMMERCIAL OPERATE....JUNE 1, 1987  
CONDENSER COOLING METHOD...CCCT  
CONDENSER COOLING WATER....SAVANNAH RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHEASTERN ELECTRIC  
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....GEORGIA POWER  
CORPORATE ADDRESS.....333 PIEDMONT AVENUE, N.E., P. O. BOX 4545  
ATLANTA, GEORGIA 30302  
CONTRACTOR  
ARCHITECT/ENGINEER.....SOUTHERN SERVICES & BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....GEORGIA POWER CO.  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II  
IE RESIDENT INSPECTOR.....J. ROGGE  
LICENSING PROJ MANAGER.....J. HOPKINS  
DOCKET NUMBER.....50-424  
LICENSE & DATE ISSUANCE...NPF-68, MARCH 16, 1987  
PUBLIC DOCUMENT ROOM.....BURKE COUNTY LIBRARY  
412 FOURTH ST.  
WAYNESBORO, GA. 30830

INSPECTION SUMMARY

I N S P E C T I O N   S T A T U S

+ INSPECTION NOVEMBER 30 - DECEMBER 4-14 AND JANUARY 5 (87-69): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF QUALITY ASSURANCE EFFECTIVENESS. THREE VIOLATIONS WERE IDENTIFIED: FAILURE TO PERFORM POSTMODIFICATION TESTING, FAILURE TO FOLLOW PROCEDURE 00150-C, DEFICIENCY CONTROL, AND FAILURE TO RETURN EQ EQUIPMENT TO QUALIFIED CONDITION FOLLOWING MAINTENANCE.  
INSPECTION DECEMBER 8-11 (87-71): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOW-UP ON PREVIOUSLY IDENTIFIED INSPECTION ITEMS. THREE VIOLATIONS WERE IDENTIFIED: FAILURE TO PROPERLY DOCUMENT ONSHIFT PLANT OPERATIONS AND FIRE BRIGADE ASSIGNMENTS; FAILURE TO MAINTAIN FULLY QUALIFIED FIVE-MAN FIRE BRIGADE ON SITE AT ALL TIMES; AND INABILITY TO IMPLEMENT ALTERNATE REMOTE SHUTDOWN WHILE SIMULTANEOUSLY COMBATTING THE FIRE FOR CONTROL ROOM FIRE.  
INSPECTION DECEMBER 22 - JANUARY 29 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED RESIDENT INSPECTION IN THE FOLLOWING AREAS: PLANT OPERATIONS, RADIOLOGICAL CONTROLS, MAINTENANCE, SURVEILLANCE, FIRE PROTECTION, SECURITY, AND QUALITY PROGRAMS AND ADMINISTRATIVE CONTROLS AFFECTING QUALITY. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.  
INSPECTION JANUARY 5-13 (88-03): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF PRESERVICE INSPECTION OBSERVATION, HOUSEKEEPING (UNIT 2), MATERIALS CONTROL (UNIT 2), METALLURGICAL PROPERTIES OF 10" SCH 140 TYPE 316 PIPING (UNITS 1 AND 2), AND SUPPORT OF NRC NDE VAN INSPECTION CONDUCTED AT UNIT 2. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. ONE INSPECTOR FOLLOWUP ITEM (IFI) RELATED TO MATERIALS CONTROL AND HOUSEKEEPING; ONE UNRESOLVED ITEM (URI) WAS IDENTIFIED RELATED TO THE METALLURGICAL STRUCTURE OF 10" SCH 140 PIPING, PART OF WHICH IS INSTALLED IN THE COLD LEG ACCUMULATORS OF UNIT 2, AND POSSIBLY UNIT 1.

Report Period FEB 1988

INSPECTION STATUS - (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X VOGTLE 1 X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

INSPECTION SUMMARY

INSPECTION JANUARY 11-15 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSEE ACTIONS ON PREVIOUS ENFORCEMENT MATTERS (92701B) (92702B), HOUSEKEEPING (54834B), MATERIAL IDENTIFICATION AND CONTROL (42902B) MATERIAL CONTROL (42940B), AND HEATING VENTILATING AND AIR CONDITIONING SYSTEMS (50100). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 11-15 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF MAINTENANCE ACTIVITIES (UNIT 1), WELDING AND NONWELDING ACTIVITIES ASSOCIATED WITH SAFETY-RELATED PIPING (UNIT 2), HOUSEKEEPING AND MATERIALS CONTROL (UNIT 2), AND LICENSEE IDENTIFIED 50.55(E) ITEMS (UNITS 1 AND 2). ONE VIOLATION WAS IDENTIFIED. LACK OF MATERIALS CONTROL.

INSPECTION JANUARY 12-13 AND 25-29 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION ADDRESSED THE AREAS OF COMPLETED STARTUP TESTS, THERMAL POWER MONITORING, ECP AND SHUTDOWN MARGIN CALCULATIONS, RESPONSE TO AN INFORMATION NOTICE, AND FOLLOWUP OF OPEN ITEMS. ONE VIOLATION WAS IDENTIFIED - INADEQUATE PROGRAM FOR REVIEW OF SOFTWARE USED IN SURVEILLANCES.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: JANUARY 12-29, 1988 +

INSPECTION REPORT NO: 50-424/88-06 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/17/88	02/16/88	MALFUNCTION OF A REACTOR COOLANT PUMP PROTECTION RELAY CAUSES REACTOR TRIP
88-002	01/21/88	02/22/88	PERSONNEL ERROR DURING-DIESEL TESTING CAUSES A VIOLATION OF TECHNICAL SPECIFICATION

1. Docket: 50-397                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: LEONARD HUTCHISON (509) 377-2486

4. Licensed Thermal Power (MHT):                      3323

5. Nameplate Rating (Gross MWe):                      1201

6. Design Electrical Rating (Net MWe):                      1100

7. Maximum Dependable Capacity (Gross MWe):                      1140

8. Maximum Dependable Capacity (Net MWe):                      1095

9. If Changes Occur Above Since Last Report, Give Reasons:

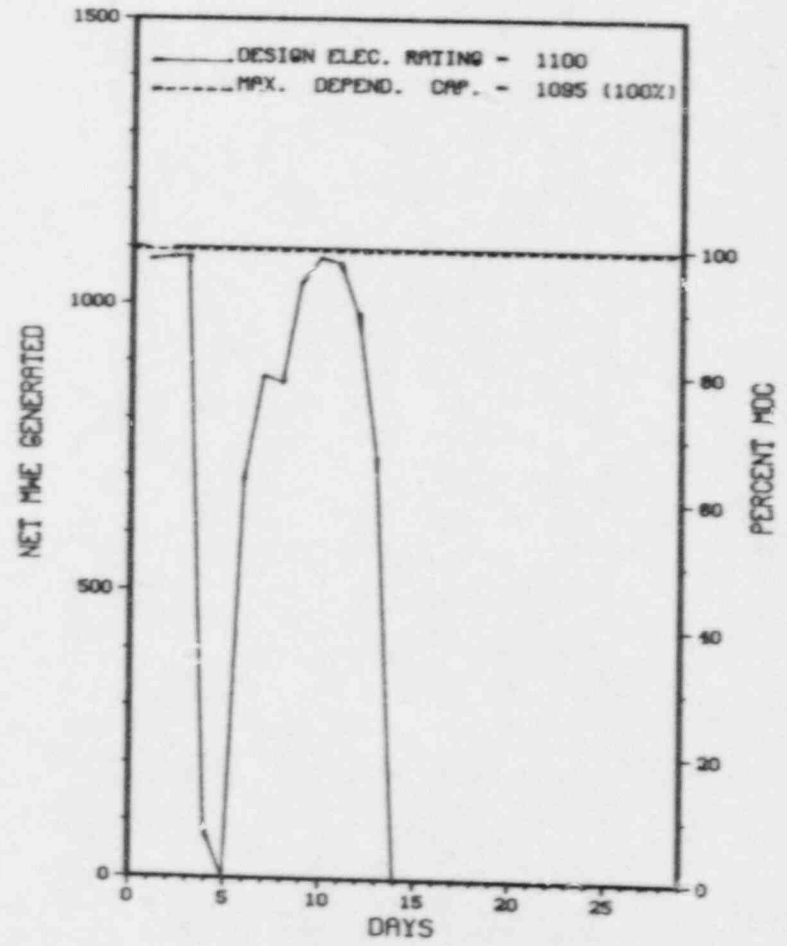
\*\*\*\*\*  
 \*                      WASHINGTON NUCLEAR 2                      \*  
 \*\*\*\*\*  
 AVERAGE DAILY POWER LEVEL (MWe) PLOT

WASHINGTON NUCLEAR 2

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
 NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>28,160.2</u>
13. Hours Reactor Critical	<u>266.1</u>	<u>975.9</u>	<u>20,883.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>340.4</u>
15. Hrs Generator On-Line	<u>259.2</u>	<u>955.6</u>	<u>20,097.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>381.7</u>
17. Gross Therm Ener (MWH)	<u>793,067</u>	<u>2,942,098</u>	<u>53,324,865</u>
18. Gross Elec Ener (MWH)	<u>265,360</u>	<u>988,120</u>	<u>17,805,260</u>
19. Net Elec Ener (MWH)	<u>256,167</u>	<u>954,186</u>	<u>17,122,138</u>
20. Unit Service Factor	<u>37.2</u>	<u>4</u>	<u>71.4</u>
21. Unit Avail Factor	<u>37.2</u>	<u>66.4</u>	<u>72.7</u>
22. Unit Cap Factor (MDC Net)	<u>33.6</u>	<u>60.5</u>	<u>55.5</u>
23. Unit Cap Factor (DER Net)	<u>33.5</u>	<u>60.2</u>	<u>55.3</u>
24. Unit Forced Outage Rate	<u>62.8</u>	<u>33.6</u>	<u>9.6</u>
25. Forced Outage Hours	<u>436.8</u>	<u>484.4</u>	<u>2,129.5</u>



26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
REFUELING/MAINTENANCE - 4/25/88 - 45 DAY DURATION

27. If Currently Shutdown Estimated Startup Date: 03/06/88

FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* WASHINGTON NUCLEAR 2 \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-04	02/04/88	F	45.7	G	3	88-03	CD	INSTRU	PLANT SCRAMMED AT 100% POWER DUE TO MSIV ISOLATION CAUSED BY IMPROPER EXECUTION OF A TECH SPEC SURVEILLANCE PROCEDURE.
88-05	02/13/88	F	391.1	A	2	88-06	HC	HYEXCH	PLANT WAS SHUT DOWN DUE TO CONDENSER I <sub>2</sub> -LEAKAGE AND RAPIDLY INCREASING CONDUCTIVITY. THE OUTAGE WAS EXTENDED BY AN INADVERTENT START OF A REACTOR BUILDING SUPPLY FAN WHICH OVERPRESSURIZED THE REACTOR BUILDING CAUSING THE DESIGNED ROOF RUPTURE PANELS TO RELIEVE WITH RESULTANT DAMAGE TO ROOF.

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 \* SUMMARY \*  
 \*\*\*\*\*  
 WASHINGTON NUCLEAR 2 INCURRED 2 POWER OUTAGES IN FEBRUARY AS DISCUSSED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUPEG-0161)

\*\*\*\*\*  
\* WASHINGTON NUCLEAR 2 \*  
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FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....WASHINGTON  
COUNTY.....BENTON  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...12 MI. NW OF  
RICHLAND, WASH.  
TYPE OF REACTOR.....BWR  
DATE INITIAL CRITICALITY...JANUARY 19, 1984  
DATE ELEC ENER 1ST GENER...MAY 27, 1984  
DATE COMMERCIAL OPERATE...DECEMBER 13, 1984  
CONDENSER COOLING METHOD...COOLING TOWERS  
CONDENSER COOLING WATER...MECHANICAL TOWERS  
ELECTRIC RELIABILITY  
COUNCIL.....WESTERN SYSTEMS  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....WASHINGTON PUBLIC POWER SUPPLY SYSTEM  
CORPORATE ADDRESS.....P.O. BOX 968  
RICHLAND, WASHINGTON 99352  
CONTRACTOR  
ARCHITECT/ENGINEER.....BURNS & ROE  
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC  
CONSTRUCTOR.....BECHTEL  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V  
IE RESIDENT INSPECTOR.....C. BOSTED  
LICENSING PROJ MANAGER....R. SAMMORTH  
DOCKET NUMBER.....50-397  
LICENSE & DATE ISSUANCE...NPF-21, APRIL 13, 1984  
PUBLIC DOCUMENT ROOM.....RICHLAND PUBLIC LIBRARY  
SWIFT AND NORTHGATE STREETS  
RICHLAND, WA 99352

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

+ INSPECTION ON JANUARY 11 - FEBRUARY 10, 1988 (REPORT NO. 50-397/88-01) AREAS INSPECTED: DURING THIS UNANNOUNCED, ROUTINE PHYSICAL SECURITY INSPECTION, THE FOLLOWING AREAS WERE ADDRESSED: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL; DETECTION AIDS; ALARM STATIONS, PERSONNEL TRAINING AND QUALIFICATIONS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW; AND FOLLOWUP. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED EXCEPT FOR THE AREA OF TESTING AND MAINTENANCE IN THAT INTRUSION ALARMS FOR CERTAIN VITAL AREA DOORS WERE NOT BEING TESTED AS REQUIRED.

+ INSPECTION ON JANUARY 19 - MARCH 10, 1988 (REPORT NO. 50-397/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ MANAGEMENT MEETING ON FEBRUARY 4, 1988 (REPORT NO. 50-397/88-03) ON THE ABOVE DATE, A MANAGEMENT MEETING WAS HELD TO DISCUSS THE SUPPLY SYSTEM'S ACTIONS IN RESPONSE TO THE SAFETY SYSTEM FUNCTIONAL INSPECTION OF AUGUST, 1987, PLUS OTHER ITEMS OF INTEREST.

+ INSPECTION ON FEBRUARY 21-26, 1988 (REPORT NO. 50-397/88-04) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 7-11, 1988 (REPORT NO. 50-397/88-05) REPORT CANCELLED

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

## SYSTEMS AND COMPONENT PROBLEMS:

+ WNP-2 EXPERIENCED A TUBE RUPTURE ON THE MAIN CONDENSER ON FEBRUARY 13, 1988. THE PLANT WAS MANUALLY SCRAMMED AND TUBE REPAIRS WERE MADE. DURING THE OUTAGE TO MAKE CONDENSER TUBE REPAIRS, THE LICENSEE WAS PERFORMING BREAKER INSPECTIONS PER NRC BULLETIN 88-01. ON FEBRUARY 14, 1988, THE REACTOR BUILDING SUPPLY FAN INADVERTENTLY STARTED DUE TO PERSONNEL AND SYSTEM LOGIC WIRING ERRORS. THE FAN OPERATED WITHOUT A CORRESPONDING EXHAUST FAN IN OPERATION FOR SEVERAL MINUTES. THIS RESULTED IN A FAILURE OF THE REACTOR BUILDING (SECONDARY CONTAINMENT) ROOF. SUBSEQUENT INVESTIGATION BY THE SUPPLY SYSTEM FOUND THAT THERE WERE NUMEROUS WIRING ERRORS IN THE BREAKER TRIP AND CLOSING CIRCUITRY FOR THE SUPPLY AND EXHAUST FANS. THESE ERRORS WERE APPARENTLY MADE DURING CONSTRUCTION AND PREOPERATIONAL TESTING FAILED TO IDENTIFY THEM. DAMAGE TO THE ROOF OCCURRED WHEN BUILDING PRESSURE REACHED APPROXIMATELY 14 INCHES H<sub>2</sub>O (BUILDING SHEAR BOLT DESIGN PRESSURE). THE ROOF PANELS RAISED APPROXIMATELY 6 TO 12 INCHES AS A RESULT OF THE OVERPRESSURIZATION EVENT. THE LICENSEE DETERMINED THAT SOME DEBRIS HAD FALLEN INTO THE SPENT FUEL PIT. HOWEVER, NO DAMAGE TO ANY FUEL ASSEMBLIES HAD BEEN OBSERVED. THE LICENSEE CORRECTED THE WIRING ERRORS AND ROOF REPAIRS TOOK APPROXIMATELY 3 WEEKS TO COMPLETE.

+ THE SUPPLY SYSTEM IDENTIFIED A PROBLEM IN ACCORDANCE WITH 10 CFR 21 DEALING WITH A POTENTIAL FOR AN UNMONITORED RELEASE THROUGH A NON-SEISMICALLY QUALIFIED SECTION OF THE REACTOR CORE ISOLATION COOLING (RCIC) SYSTEM PIPING. THIS UNMONITORED RELEASE COULD TAKE PLACE IF A SEISMIC EVENT SHOULD OCCUR CONCURRENT WITH A FAILURE OF A RCIC SYSTEM ISOLATION VALVE TO CLOSE. THE FLOW PATH WOULD BE FROM THE SUPPRESSION POOL THROUGH THE SUCTION PIPING TO THE RCIC SYSTEM KEEP FILL PUMP AND OUT THROUGH A BREAK ON THE NON-SEISMIC PIPING TO THE CONDENSATE STORAGE TANK. THE LICENSEE INSTITUTED COMPENSATORY MEASURES BY PLACING THE SUCTION OF THE RCIC SYSTEM ON THE SUPPRESSION POOL AND ISOLATING THE NON-QUALIFIED SECTION OF PIPING. LONG TERM CORRECTIVE ACTIONS WILL CONSIST OF ADDING A CHECK VALVE IN THE SEISMICALLY QUALIFIED PORTION OF THE PIPING FROM THE CONDENSATE STORAGE TANK TO THE RCIC SYSTEM. THIS WILL PROVIDE FOR DOUBLE VALVE PROTECTION. THE LICENSEE DETERMINED THIS TO BE REPORTABLE UNDER THE PROVISIONS OF PART 21 DUE TO A DESIGN ERROR BY THE A/E TO PROVIDE PROTECTION FROM THIS TYPE OF EVENT.

## FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

## MANAGERIAL ITEMS:

NONE

## PLANT STATUS:

+ THE PLANT WAS SHUTDOWN DURING MOST OF FEBRUARY. THE REACTOR TRIPPED FROM FULL POWER ON FEBRUARY 4, 1988, AS A RESULT OF A PERSONNEL ERROR WHILE PERFORMING A SURVEILLANCE ON THE MAIN CONDENSER VACUUM SWITCHES. TESTING OF THE FIRST CHANNEL HAD BEEN COMPLETED. HOWEVER, THE TECHNICIAN DID NOT CALL THE CONTROL ROOM TO HAVE THE HALF ISOLATION RESET PRIOR TO PERFORMING THE SURVEILLANCE TEST ON THE SECOND CHANNEL. THIS RESULTED IN A CLOSURE OF ALL MAIN STEAM ISOLATION VALVES AND A SUBSEQUENT REACTOR TRIP. THE UNIT WAS RESTARTED A FEW DAYS LATER. ON FEBRUARY 13, 1988, A CONDENSER TUBE FAILURE OCCURRED AND THE PLANT WAS SHUTDOWN BY MANUALLY SCRAMMING THE REACTOR FROM 35% POWER. THE TUBE RUPTURE WAS REPAIRED IN SEVERAL DAYS, BUT THE PLANT REMAINED SHUTDOWN DUE TO A RUPTURE OF THE REACTOR BUILDING (SECONDARY CONTAINMENT) ROOF. THE UNIT WAS RETURNED TO SERVICE ON MARCH 6, 1988.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\*            WASHINGTON NUCLEAR 2            \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

LAST IE SITE INSPECTION DATE: 03/07-11/88+

INSPECTION REPORT NO: 50-397/88-05+

R E P O R T S   F R O M   L I C E N S E E

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE  
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1. Docket: 50-382                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: GEORGE MILLER (504) 467-8211

4. Licensed Thermal Power (MWh):                      3390

5. Nameplate Rating (Gross MWe):                      1153

6. Design Electrical Rating (Net MWe):                      1104

7. Maximum Dependable Capacity (Gross MWe):                      1120

8. Maximum Dependable Capacity (Net MWe):                      1075

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>21,337.9</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,385.8</u>	<u>17,490.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,341.2</u>	<u>17,155.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWh)	<u>2,339,100</u>	<u>4,483,017</u>	<u>55,963,989</u>
18. Gross Elec Ener (MWh)	<u>795,510</u>	<u>1,518,830</u>	<u>18,899,640</u>
19. Net Elec Ener (MWh)	<u>763,683</u>	<u>1,453,691</u>	<u>17,986,149</u>
20. Unit Service Factor	<u>100.0</u>	<u>93.1</u>	<u>83.4</u>
21. Unit Avail Factor	<u>100.0</u>	<u>93.1</u>	<u>80.4</u>
22. Unit Cap Factor (MDC Net)	<u>102.1</u>	<u>93.9</u>	<u>78.4</u>
23. Unit Cap Factor (DER Net)	<u>99.4</u>	<u>91.4</u>	<u>76.4</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>4.0</u>	<u>9.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>55.6</u>	<u>1,784.4</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

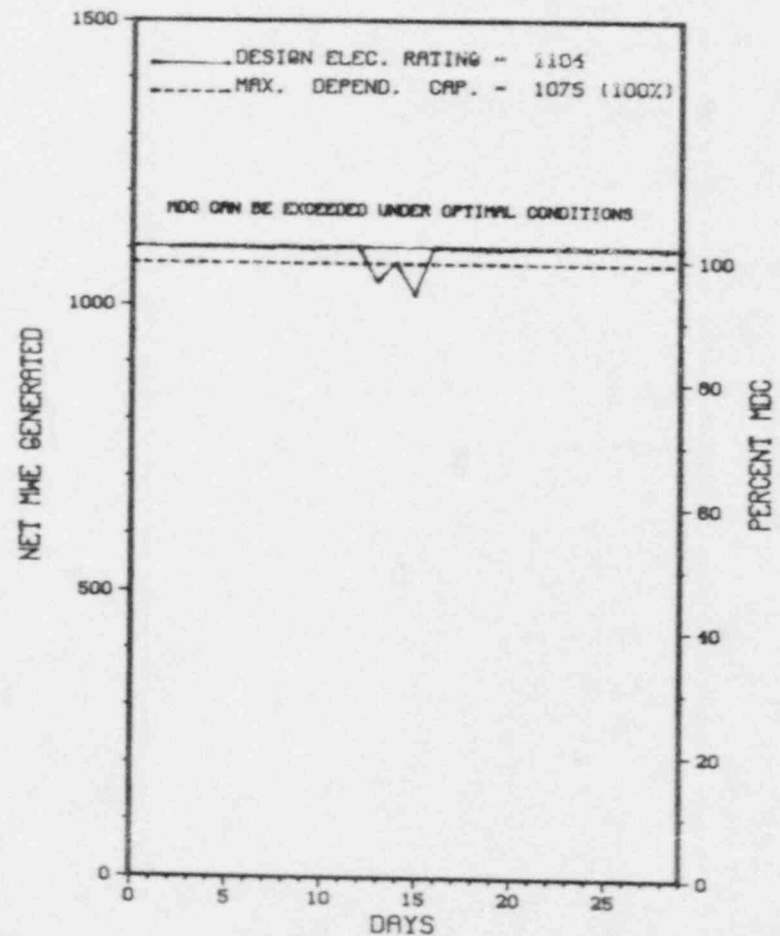
REFUELING/MAINTENANCE - 4/2/88 - 60 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\*                      WATERFORD 3                      \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WATERFORD 3



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
\* WATERFORD 3 \*  
\*\*\*\*\*

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*  
\* SUMMARY \*  
\*\*\*\*\*  
WATERFORD 3 OPERATED ROUTINELY IN FEBRUARY WITH NO OUTAGES OR  
SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit G & H
S-Sched	F-Admin	2-Manual Scram	Instructions for
	B-Maint or Test	3-Auto Scram	Preparation of
	G-Oper Error	4-Continued	Data Entry Sheet
	C-Refueling	5-Reduced Load	Licensee Event Report
	H-Other	9-Other	(LER) File (NUREG-0161)
	D-Regulatory Restriction		
	E-Operator Training		
	& License Examination		

\*\*\*\*\*  
\* WATERFORD 3 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....LOUISIANA  
COUNTY.....ST CHARLES  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...20 MI W OF  
NEW ORLEANS, LA  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MARCH 4, 1985  
DATE ELEC ENER 1ST GENER...MARCH 18, 1985  
DATE COMMERCIAL OPERATE...SEPTEMBER 24, 1985  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...MISSISSIPPI RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....LOUISIANA POWER & LIGHT  
CORPORATE ADDRESS.....142 DELARONDE STREET  
NEW ORLEANS, LOUISIANA 70174  
CONTRACTOR  
ARCHITECT/ENGINEER.....EBASCO  
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING  
CONSTRUCTOR.....EBASCO  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV  
IE RESIDENT INSPECTOR.....T. STAKER  
LICENSING PROJ MANAGER.....D. WIGGINTON  
DOCKET NUMBER.....50-382  
LICENSE & DATE ISSUANCE...NPF-38, MARCH 16, 1985  
PUBLIC DOCUMENT ROOM.....HEAD LIBRARIAN  
LOUISIANA COLLECTION  
EARL K. LONG LIBRARY  
UNIVERSITY OF NEW ORLEANS  
LAKEFRONT DRIVE  
NEW ORLEANS, LOUISIANA 70148

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION CONDUCTED DEC.16 - JAN.31, 1988 (87-31) ROUTINE, UNANNOUNCED INSPECTION CONSISTING OF ONSITE FOLLOWUP OF EVENTS, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, MONTHLY SURVEILLANCE OBSERVATION, FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS, LICENSEE EVENT REPORT FOLLOWUP, PLANT STATUS, AND 10 CFR REPORTS. WITHIN THE AREAS INSPECTED, ONE VIOLATION INVOLVING TWO EXAMPLES OF A FAILURE TO ADHERE TO PROCEDURES WAS IDENTIFIED.

INSPECTION CONDUCTED JAN.10-15, 1988 (88-01) ROUTINE, UNANNOUNCED INSPECTION OF RADIATION PROTECTION PROGRAM INVOLVING THE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM AND PREPERATIUN FOR THE REFUELING OUTAGE, CYCLE 2. WITHIN THE AREAS INSPECTED NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JAN.25-29, 1988 (88-02) ROUTINE, UNANNOUNCED INSPECTION OF SECURITY PLANS AND PROCEDURES, MANAGEMENT EFFECTIVENESS, SECURITY ORGANIZATION, SECURITY PROGRAM AUDIT, LOCK AND KEY CONTROL, PHYSICAL BARRIERS - VITAL AREA (VA), SECURITY SYSTEM POWER SUPPLY, ASSESSMENT AIDS, ACCESS CONTROL - PACKAGES, ACCESS CONTROL - VEHICLES, DETECTION AIDS - PROTECTED AREA (PA), DETECTION AIDS - VA, AND ACCESS CONTROL - PERSONNEL. WITHIN THE AREAS INSPECTED NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JAN.25-29, 1988 (88-03) ROUTINE, UNANNOUNCED INSPECTION OF LICENSED AND NOW LICENSED OPERATOR TRAINING. WITHIN THE AREAS INSPECTED NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.



1. Docket: 50-482                      O P E R A T I N G   S T A T U S

2. Reporting Period: 02/01/88    Outage + On-line Hrs: 696.0

3. Utility Contact: M. WILLIAMS (316) 364-8831

4. Licensed Thermal Power (Mwt):                      3411

5. Nameplate Rating (Gross MWe):                      1250

6. Design Electrical Rating (Net MWe):                      1170

7. Maximum Dependable Capacity (Gross MWe):                      1170

8. Maximum Dependable Capacity (Net MWe):                      1128

9. If Changes Occur Above Since Last Report, Give Reasons:

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

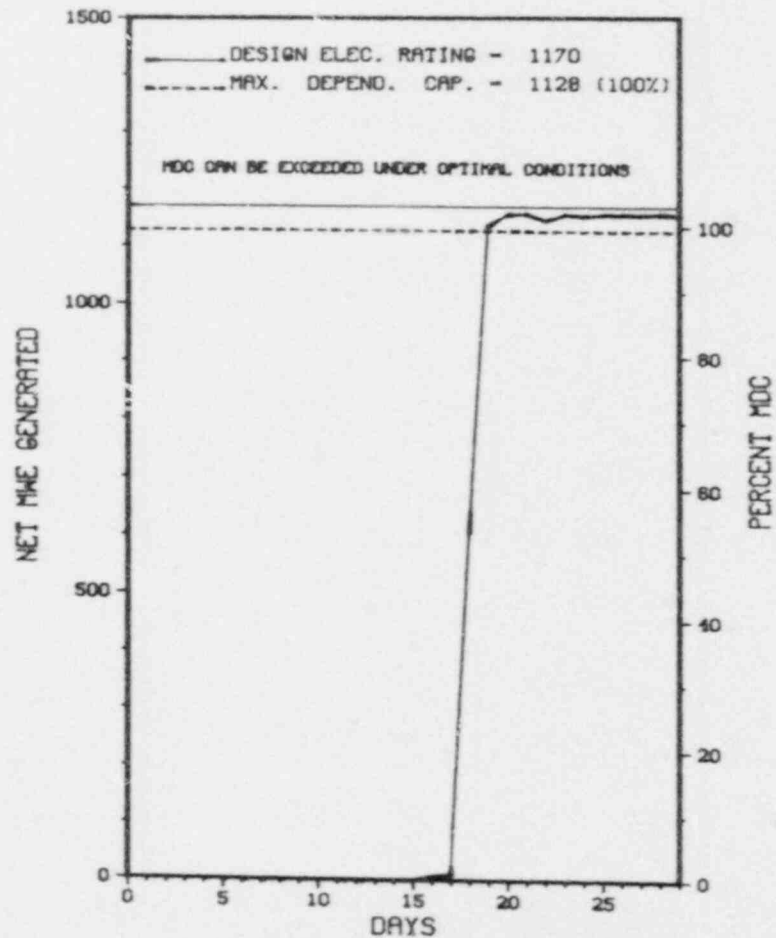
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>21,839.7</u>
13. Hours Reactor Critical	<u>337.8</u>	<u>836.6</u>	<u>16,303.1</u>
14. Rx Reserve Shtdwn Hrs	<u>89.5</u>	<u>89.5</u>	<u>339.8</u>
15. Hrs Generator On-Line	<u>297.8</u>	<u>683.4</u>	<u>15,886.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>19.0</u>
17. Gross Therm Ener (MWH)	<u>956,585</u>	<u>2,173,132</u>	<u>51,599,516</u>
18. Gross Elec Ener (MWH)	<u>334,563</u>	<u>756,393</u>	<u>17,945,284</u>
19. Net Elec Ener (MWH)	<u>308,960</u>	<u>704,354</u>	<u>17,116,662</u>
20. Unit Service Factor	<u>42.8</u>	<u>47.5</u>	<u>72.7</u>
21. Unit Avail Factor	<u>42.8</u>	<u>47.5</u>	<u>72.8</u>
22. Unit Cap Factor (MDC Net)	<u>39.4</u>	<u>43.4</u>	<u>54.3*</u>
23. Unit Cap Factor (DER Net)	<u>37.9</u>	<u>41.8</u>	<u>67.0</u>
24. Unit Forced Outage Rate	<u>57.2</u>	<u>48.4</u>	<u>8.7</u>
25. Forced Outage Hours	<u>398.2</u>	<u>640.7</u>	<u>1,517.0</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
 \*                      WOLF CREEK 1                      \*  
 \*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
 WOLF CREEK 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* WOLF CREEK 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	01/21/88	F	379.2	A	4				REACTOR VESSEL O-RING LEAKAGE: 274.5 HOURS; GENERATOR EXCITER GROUND REPAIR: 104.7 HOURS.
3	02/17/88	F	9.5	A	9				REPLACED TURBINE TRIP SOLENOID. REACTOR REMAINED CRITICAL.
4	02/17/88	F	9.5	A	9				REPLACED TURBINE TRIP SOLENOID. REACTOR REMAINED CRITICAL.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 WOLF CREEK ENTERED FEBRUARY SHUTDOWN FOR REPAIRS. RETURNED TO POWER ON 16TH. SUBSEQUENTLY INCURRED 2 OUTAGES.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* WOLF CREEK 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....KANSAS  
COUNTY.....COFFEY  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...3.5 MI NE OF  
BURLINGTON, KAN  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...MAY 22, 1985  
DATE ELEC ENER 1ST GENER...JUNE 12, 1985  
DATE COMMERCIAL OPERATE...SEPTEMBER 3, 1985  
CONDENSER COOLING METHOD...COOLING LAKE  
CONDENSER COOLING WATER...COOLING LAKE  
ELECTRIC RELIABILITY  
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....KANSAS GAS & ELECTRIC  
CORPORATE ADDRESS.....P.O. BOX 208  
WICHITA, KANSAS 67201  
CONTRACTOR  
ARCHITECT/ENGINEER.....BECHTEL  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....DANIEL INTERNATIONAL  
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV  
IE RESIDENT INSPECTOR.....J. CUMMINS  
LICENSING PROJ MANAGER.....P. OCONNOR  
DOCKET NUMBER.....50-482  
LICENSE & DATE ISSUANCE...NPF-42, JUNE 4, 1985  
PUBLIC DOCUMENT ROOM.....WILLIAM ALLAN WHITE LIBRARY  
GOVERNMENT DOCUMENTS DIVISION  
EMPORIA STATE UNIVERSITY  
1200 COMMERCIAL STREET  
EMPORIA, KANSAS 66801

I N S P E C T I O N S T A T U S

INSPECTION SUMMARY

INSPECTION CONDUCTED DEC.7-11, 1987 (87-37) ROUTINE, UNANNOUNCED INSPECTION OF A FOLLOWUP AND PARTICIPATION IN A SAMPLE SELECTION FOR NRC COMPLIANCE BULLETIN 87-02; AND A FOLLOWUP OF ACTIONS REGARDING IE INFORMATION NOTICE 86-53 AND OTHER PREVIOUSLY IDENTIFIED HEAT SHRINKABLE TUBING PROBLEMS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JAN.19-22, 1988 (88-02) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S LIQUID AND GASEOUS RADIOACTIVE WASTE MANAGEMENT PROGRAMS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JAN.25-29, 1988 (88-03) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP). WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X                    WOLF CREEK 1                    X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

PLANT STATUS:

LAST IE SITE INSPECTION DATE: JAN.29, 1988

INSPECTION REPORT NO: 50-482/88-03

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE			
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1. Docket: 50-029 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: S. WHIPPLE (617) 872-8100

4. Licensed Thermal Power (MWt): 600

5. Nameplate Rating (Gross MWe): 185 X 1.0 = 185

6. Design Electrical Rating (Net MWe): 175

7. Maximum Dependable Capacity (Gross MWe): 180

8. Maximum Dependable Capacity (Net MWe): 167

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe):           

11. Reasons for Restrictions, If Any:             
NONE

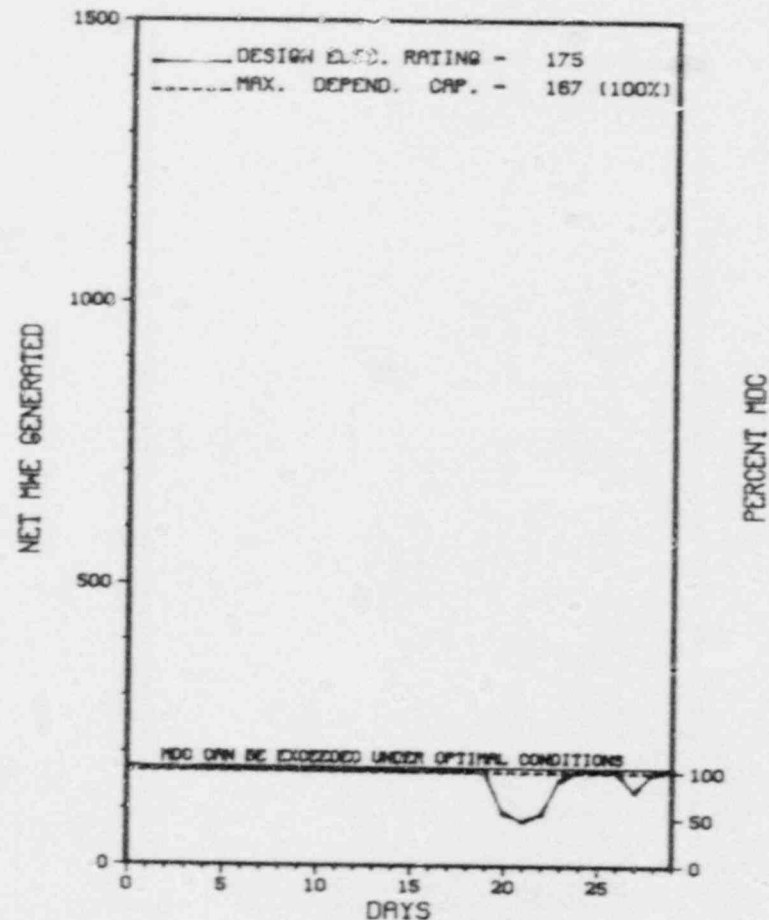
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>239,205.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>192,552.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>187,521.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>392,930</u>	<u>819,780</u>	<u>102,432,805</u>
18. Gross Elec Ener (MWH)	<u>119,101</u>	<u>248,347</u>	<u>31,033,292</u>
19. Net Elec Ener (KWH)	<u>111,321</u>	<u>232,200</u>	<u>29,036,744</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>78.4</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>78.4</u>
22. Unit Cap Factor (FDC Net)	<u>95.8</u>	<u>96.6</u>	<u>74.5*</u>
23. Unit Cap Factor (DER Net)	<u>91.4</u>	<u>92.1</u>	<u>71.0*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>5.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>8,903.9</u>

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* YANKEE-ROWE 1 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT  
YANKEE-ROWE 1



FEBRUARY 1988

\* Item calculated with a Weighted Average

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*  
 \* YANKEE-ROWE 1 \*  
 \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
88-3	02/20/88	S	0.0	B	5			THROTTLE VALVE TEST, NRV TEST AND CONDENSER TUBE CLEANING.
88-4	02/27/88	F	0.0	A	5			FOUND WATER IN THE OIL SUPPLY OF #3 BOILER FEED PUMP. REPLACED OIL AND OIL COOLER.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*  
 YANKEE ROWE INCURRED 2 POWER REDUCTIONS IN FEBRUARY FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* YANKEE-ROWE 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....MASSACHUSETTS  
COUNTY.....FRANKLIN  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...25 MI NE OF  
PITTSFIELD, MASS  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...AUGUST 19, 1960  
DATE ELEC ENER 1ST GENER...NOVEMBER 10, 1960  
DATE COMMERCIAL OPERATE....JULY 1, 1961  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...DEERFIELD RIVER  
ELECTRIC RELIABILITY  
COUNCIL.....NORTHEAST POWER  
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....YANKEE ATOMIC ELECTRIC  
CORPORATE ADDRESS.....1671 WORCESTER RD.  
FRAMINGHAM, MASSACHUSETTS 01701

CONTRACTOR  
ARCHITECT/ENGINEER.....STONE & WEBSTER  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....STONE & WEBSTER  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I  
IE RESIDENT INSPECTOR.....H. EICHENHOLZ  
LICENSING PROJ MANAGER.....M. FAIRTILE  
DOCKET NUMBER.....50-029  
LICENSE & DATE ISSUANCE....DPR-3, DECEMBER 24, 1963  
PUBLIC DOCUMENT ROOM.....GREENFIELD COMMUNITY COLLEGE  
1 COLLEGE DRIVE  
GREENFIELD, MASSACHUSETTS 01301

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period FEB 1988

I N S P E C T I O N   S T A T U S   -   (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X                    YANKEE-RONE 1                    X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

R E P O R T S   F R O M   L I C E N S E E

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NO INPUT PROVIDED.			

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Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 \* ZION 1 \*  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	02/24/88	F	12.0	A	3				TURBINE TRIP/REACTOR TRIP DUE TO HIGH-HIGH LEVEL IN 1C STEAM GENERATOR DUE TO FEEDWATER CONTROL MALFUNCTION.
2	02/24/88	S	121.8	C	4				STARTED CYCLE 10-11 REFUELING OUTAGE.

XXXXXXXXXXXX ZION 1 INCURRED 1 OUTAGE IN FEBRUARY. SUBSEQUENTLY SHUTDOWN  
 \* SUMMARY \* FOR SCHEDULED REFUELING OUTAGE.  
 XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* ZION 1 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....LAKE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...40 MI N OF  
CHICAGO, ILL  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...JUNE 19, 1973  
DATE ELEC ENER 1ST GENER...JUNE 28, 1973  
DATE COMMERCIAL OPERATE...DECEMBER 31, 1973  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690  
CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....COMMONWEALTH EDISON  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....M. HOLZMER  
LICENSING PROJ MANAGER.....J. NORRIS  
DOCKET NUMBER.....50-295  
LICENSE & DATE ISSUANCE...DPR-39, OCTOBER 19, 1973  
PUBLIC DOCUMENT ROOM.....WAUKEGAN PUBLIC LIBRARY  
128 N. COUNTY STREET  
WAUKEGAN, ILLINOIS 60085

I N S P E C T I O N   S T A T U S

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 20 THROUGH JANUARY 14 (87036; 87037): ROUTINE, UNANNOUNCED RESIDENT AND REGION-BASED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; SUMMARY OF OPERATIONS; OPERATIONAL SAFETY VERIFICATION AND ENGINEERED SAFETY FEATURE (ESF) SYSTEM WALKDOWN; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; LICENSEE EVENT REPORTS (LERS); TRAINING; RESIDENT INSPECTOR FOLLOWUP ON IEB 87-02; FOLLOWUP OF REGIONAL REQUESTS. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN EIGHT AREAS. ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA; HOWEVER, IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.A, A NOTICE OF VIOLATION WAS NOT ISSUED (FAILURE TO PERFORM A SURVEILLANCE). THE VIOLATION WAS OF MINOR SAFETY SIGNIFICANCE AND DID NOT AFFECT THE PUBLIC'S HEALTH AND SAFETY.

INSPECTION ON DECEMBER 14 THROUGH JANUARY 21 (87037; 87038): ROUTINE, UNANNOUNCED INSPECTION OF THE OPERATIONAL RADIATION PROTECTION AND TRANSPORTATION PROGRAMS, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS; QUALIFICATIONS AND TRAINING; EXTERNAL AND INTERNAL EXPOSURE CONTROLS; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS, AND MONITORING; THE ALARA PROGRAM; TRANSPORTATION OF RADIOACTIVE MATERIALS; AND AUDITS AND APPRAISALS. ALSO OPEN ITEMS, AN LER, AND SPENT FUEL POOL LINER LEAKAGE ISSUES WERE REVIEWED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 12-15 (88004; 88005): ROUTINE, ANNOUNCED INSPECTION OF: (1) QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSES AND (2) ACTION ON AN OPEN ITEM IDENTIFIED DURING A PREVIOUS INSPECTION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

INSPECTION ON FEBRUARY 8-11 (88006; 88007): ROUTINE, UNANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE EMERGENCY PREPAREDNESS  
PAGE 2-468





1. Docket: 50-304 OPERATING STATUS

2. Reporting Period: 02/01/88 Outage + On-line Hrs: 696.0

3. Utility Contact: GERRI AUSTIN (312) 746-2084

4. Licensed Thermal Power (Mwt): 3250

5. Nameplate Rating (Gross MWe): 1220 X 0.9 = 1098

6. Design Electrical Rating (Net MWe): 1040

7. Maximum Dependable Capacity (Gross MWe): 1085

8. Maximum Dependable Capacity (Net MWe): 1040

9. If Changes Occur Above Since Last Report, Give Reasons:  
NONE

10. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

11. Reasons for Restrictions, If Any: \_\_\_\_\_  
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>696.0</u>	<u>1,440.0</u>	<u>117,889.0</u>
13. Hours Reactor Critical	<u>696.0</u>	<u>1,440.0</u>	<u>86,212.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>226.1</u>
15. Hrs Generator On-Line	<u>696.0</u>	<u>1,440.0</u>	<u>83,804.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,172,407</u>	<u>4,510,652</u>	<u>249,204,419</u>
18. Gross Elec Ener (MWH)	<u>732,980</u>	<u>1,521,872</u>	<u>78,864,005</u>
19. Net Elec Ener (MWH)	<u>702,005</u>	<u>1,458,507</u>	<u>75,084,327</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>71.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>71.1</u>
22. Unit Cap Factor (MDC Net)	<u>97.0</u>	<u>97.4</u>	<u>61.2</u>
23. Unit Cap Factor (DER Net)	<u>97.0</u>	<u>97.4</u>	<u>61.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>13,795.9</u>

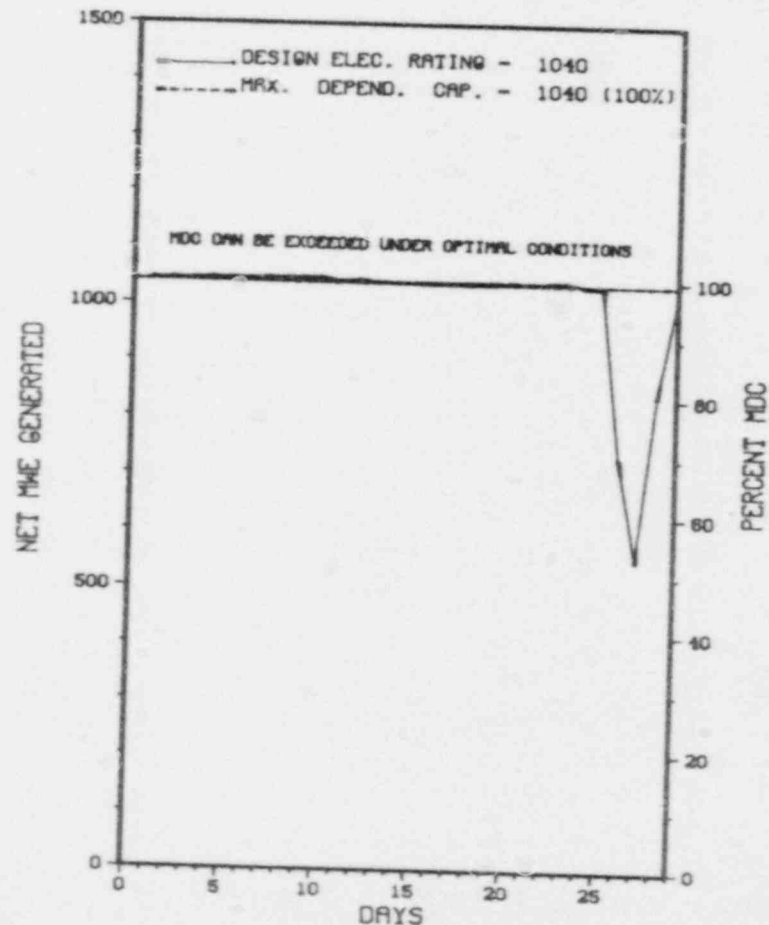
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):  
NONE

27. If Currently Shutdown Estimated Startup Date: N/A

\*\*\*\*\*  
\* ZION 2 \*  
\*\*\*\*\*

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 2



FEBRUARY 1988

Report Period FEB 1988

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
\* ZION 2 \*  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
2	02/26/88	F	0.0	A	5			REDUCED POWER TO 57% DUE TO 2A FEEDWATER PUMP FLOW CONTROL VALVE FAILED OPEN.

XXXXXXXXXXXX ZION 2 INCURRED 1 POWER REDUCTION IN FEBRUARY FOR REASONS  
\* SUMMARY \* STATED ABOVE.  
XXXXXXXXXXXX

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

\*\*\*\*\*  
\* ZION 2 \*  
\*\*\*\*\*

FACILITY DATA

Report Period FEB 1988

FACILITY DESCRIPTION

LOCATION  
STATE.....ILLINOIS  
COUNTY.....LAKE  
DIST AND DIRECTION FROM  
NEAREST POPULATION CTR...40 MI N OF  
CHICAGO, ILL  
TYPE OF REACTOR.....PWR  
DATE INITIAL CRITICALITY...DECEMBER 24, 1973  
DATE ELEC ENER 1ST GENER...DECEMBER 26, 1973  
DATE COMMERCIAL OPERATE...SEPTEMBER 17, 1974  
CONDENSER COOLING METHOD...ONCE THRU  
CONDENSER COOLING WATER...LAKE MICHIGAN  
ELECTRIC RELIABILITY  
COUNCIL.....MID-AMERICA  
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY  
LICENSEE.....COMMONWEALTH EDISON  
CORPORATE ADDRESS.....P.O. BOX 767  
CHICAGO, ILLINOIS 60690

CONTRACTOR  
ARCHITECT/ENGINEER.....SARGENT & LUNDY  
NUC STEAM SYS SUPPLIER...WESTINGHOUSE  
CONSTRUCTOR.....COMMONWEALTH EDISON  
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III  
IE RESIDENT INSPECTOR.....M. HOLZMER  
LICENSING PROJ MANAGER.....J. NORRIS  
DOCKET NUMBER.....50-304  
LICENSE & DATE ISSUANCE...DPR-48, NOVEMBER 14, 1973  
PUBLIC DOCUMENT ROOM.....WAUKEGAN PUBLIC LIBRARY  
128 N. COUNTY STREET  
WAUKEGAN, ILLINOIS 60085

INSPECTION SUMMARY

I N S P E C T I O N   S T A T U S

INSPECTION ON NOVEMBER 20 THROUGH JANUARY 14 (87036; 87037): ROUTINE, UNANNOUNCED RESIDENT AND REGION-BASED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; SUMMARY OF OPERATIONS; OPERATIONAL SAFETY VERIFICATION AND ENGINEERED SAFETY FEATURE (ESF) SYSTEM WALKDOWN; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; LICENSEE EVENT REPORTS (LERS); TRAINING; RESIDENT INSPECTOR FOLLOWUP ON IEB 87-02; FOLLOWUP OF REGIONAL REQUESTS. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN EIGHT AREAS. ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA; HOWEVER, IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.A, A NOTICE OF VIOLATION WAS NOT ISSUED (FAILURE TO PERFORM A SURVEILLANCE). THE VIOLATION WAS OF MINOR SAFETY SIGNIFICANCE AND DID NOT AFFECT THE PUBLIC'S HEALTH AND SAFETY.

INSPECTION ON DECEMBER 14 THROUGH JANUARY 21 (87037; 87038): ROUTINE, UNANNOUNCED INSPECTION OF THE OPERATIONAL RADIATION PROTECTION AND TRANSPORTATION PROGRAMS, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS; QUALIFICATIONS AND TRAINING; EXTERNAL AND INTERNAL EXPOSURE CONTROLS; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS, AND MONITORING; THE ALARA PROGRAM; TRANSPORTATION OF RADIOACTIVE MATERIALS; AND AUDITS AND APPRAISALS. ALSO OPEN ITEMS, AN LER, AND SPENT FUEL POOL LINER LEAKAGE ISSUES WERE REVIEWED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JANUARY 12-15 (88004; 88005): ROUTINE, ANNOUNCED INSPECTION OF: (1) QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSES AND (2) ACTION ON AN OPEN ITEM IDENTIFIED DURING A PREVIOUS INSPECTION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

INSPECTION ON FEBRUARY 8-11 (88006; 88007): ROUTINE, UNANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE EMERGENCY PREPAREDNESS



**SECTION 3**

**APPENDIX**

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 \* PRESSURIZED \*  
 \* WATER \*  
 \* REACTORS \*  
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STATUS OF SPENT FUEL STORAGE CAPABILITY

FACILITY *****	(a)		REMAINING CAPACITY		(b)		
	CORE SIZE (NO. OF ASSEMBLIES) *****	PRESENT AUTH. STORAGE POOL CAP. (FUEL ASSEMBLIES) *****	NO. OF ASSEMBLIES STORED *****	REMAINING CAPACITY (NO. OF ASSEMBLIES) *****	IF PENDING REQUEST APPROVED (NO. OF ASSEMBLIES) *****	NEXT REFUEL SCHED. DATE *****	WILL FILL PRESENT AUTH. CAPACITY *****
ARKANSAS 1	177	968	488	480		09-88	1997
ARKANSAS 2	177	988	289	699		02-88	1999
BEAVER VALLEY 1	157	833	284	549		12-87	1995
BEAVER VALLEY 2						N/S	
BRAIDWOOD 1	193	1050	0	1050		N/S	
BYRON 1	193	1050	0	1050		N/S	1995
BYRON 2	193	1050	0	1050		N/S	
CALLAWAY 1	193	1340	180	1160		N/S	
CALVERT CLIFFS 1	217	1830(c)	1138(c)	692(c)		03-89	2005
CALVERT CLIFFS 2	217					04-88	1991
CATAWBA 1	193	1418	132	1286		04-89	1991
CATAWBA 2	193	1418	0	1418		12-88	2011
COOK 1	193	2050(c)	866(c)	1184(c)		12-87	2013
COOK 2	193					N/S	1994
CRYSTAL RIVER 3	177	1163	328	829		N/S	1994
DAVIS-BESSE 1	177	735	204	531		09-87	1997
DIABLO CANYON 1	193	1400	0	1400		03-88	1993
DIABLO CANYON 2	193	1400		1400		03-88	1993
FARLEY 1	157	1407	273	1134		N/S	
FARLEY 2	157	1407	240	1167		03-88	1991
FORT CALHOUN 1	133	729	393	336		03-88	1993
GINNA	121	1016	420	596		10-87	1994
HADDAM NECK	157	1168	653	515		09-88	1996
HARRIS 1	157		0			02-88	1993
INDIAN POINT 1(d)	0	288	160	128		07-87	1996
INDIAN POINT 2	193	980	460	520		N/S	
INDIAN POINT 3	193	840	292	548		10-87	1993
KEWAUNEE	121	990	376	614(m)		N/S	1993
MAINE YANKEE	217	1476	721	755		03-88	1993
MCGUIRE 1	193	1463	293	1170(n)		N/S	1987
MCGUIRE 2	193	1463	424	1039		11-88	2010
MILLSTONE 2	217	1277	512	765		05-88	2010
MILLSTONE 3	193	756	84	672		01-88	1994
NORTH ANNA 1	157	1737(c)	520(c)	1217		06-89	1996
NORTH ANNA 2	157					04-87	1993
OCONEE 1	177	1312(l)	874	438(l)(n)		10-87	1993
OCONEE 2	177					02-89	1991
OCONEE 3	177	875	513	362		02-88	1991
PALISADES	204	798	477	321		07-87	1991
PALO VERDE 1	241	1329	80	1249		N/S	2002
PALO VERDE 2	241	1329	0	1329		10-87	2006
PALO VERDE 3	241	1329	0	0		02-88	2006
POINT BEACH 1	121	1502(c)	875(c)	626(c)		02-89	2007
POINT BEACH 2	121					04-88	1995
PRAIRIE ISLAND 1	121	1586(c)	781(c)	805(c)(m)		N/S	1995
PRAIRIE ISLAND 2	121					N/S	1993
RANCHO SECO 1	177	1080	316	764		01-88	1993
						03-89	2001

Report Period FEB 1988

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 \* PRESSURIZED\*  
 \* WATER \*  
 \* REACTORS \*  
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STATUS OF SPENT FUEL STORAGE CAPABILITY

FACILITY *****	(a)		NO. OF ASSEMBLIES STORED *****	REMAINING CAPACITY (NO. OF ASSEMBLIES) *****	REMAINING CAPACITY IF PENDING REQUEST APPROVED (NO. OF ASSEMBLIES) *****	NEXT REFUEL SCHED. DATE *****	(b)
	CORE SIZE (NO. OF ASSEMBLIES) *****	PRESENT AUTH. STORAGE POOL CAP. (FUEL ASSEMBLIES) *****					WILL FILL PRESENT AUTH. CAPACITY *****
ROBINSON 2	157	541	274	266(c)	379	N/S	1988(g)
SALEM 1	193	1170	464	706		03-89	2001
SALEM 2	193	1170	224	946		09-88	2003
SAN ONOFRE 1	157	216	146	70		07-88	1988
SAN ONOFRE 2	217	800	268	532		08-89	1997
SAN ONOFRE 3	217	800	160	640		04-88	1997
SEQUOYAH 1	193	1386	348	1033		N/S	1994
SEQUOYAH 2	193					N/S	1994
ST LUCIE 1	217	728	372	356		N/S	1993
ST LUCIE 2	217	1076	152	924		N/S	1993
SUMNER 1	157	1276	96	1180		N/S	2008
SURRY 1	157	1044(c)	901(c)	143(c)		N/S	1987
SURRY 2	157					N/S	1987
THREE MILE ISLAND 1	177	752	284	468		07-88	1991
THREE MILE ISLAND 2	177	442	0	442		N/S	
TROJAN	193	1408	425	983		04-88	1993
TURKEY POINT 3	157	1404	445	959(m)		N/S	1993
TURKEY POINT 4	157	1404	482	922		N/S	1993
VOGTLE 1	0	0	0	0		N/S	
WATERFORD 3	217	1088	0	1088		N/S	1993
WOLF CREEK 1	193	1340	0	1340		04-88	
YANKEE-ROWE 1	76	721	325	396		N/S	1993
ZION 1	193	2112(c)	1148(c)	964(c)		02-88	1995
ZION 2	193					10-88	1995

INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS(h)

MORRIS OPERATIONS	750 MTU(j)	315	385 MTU(j)	1490 MTU(j)
NFS(i)	250 MTU	170 MTU	80 MTU	

- (a) At each refueling outage approximately 1/3 of a PWR core and 1/4 of a BWR core is off-loaded.
- (b) Some of these dates have been adjusted by staff assumptions.
- (c) This is the total for both units.
- (d) Plant not in commercial operation.
- (e) Some spent fuel stored at Brunswick.
- (f) Authorized a total 2772 BWR and 1232 PWR assemblies for both pools.
- (g) Robinson 2 assemblies being shipped to Brunswick for storage.
- (h) Capacity is in metric tons of uranium; 1 MTU = 2 PWR assemblies or 5 BWR assemblies.
- (i) No longer accepting spent fuel.
- (j) Racked for 700 MTU.
- (k) Reserved.
- (l) This is the station total.
- (m) Installed capacity is less than that authorized.
- (n) McGuire 1 authorized to accept Oconee fuel assemblies.

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 N/S = Not Scheduled  
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\* BOILING \* STATUS OF SPENT FUEL STORAGE CAPABILITY

\* WATER \*

\* REACTORS \*

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FACILITY *****	(a)		NO. OF ASSEMBLIES REMAINING CAPACITY		REMAINING CAPACITY IF PENDING REQUEST APPROVED	NEXT REFUEL SCHED. DATE *****	(b)	
	CORE SIZE (NO. OF ASSEMBLIES) *****	PRESENT AUTH. STORAGE POOL CAP. (FUEL ASSEMBLIES) *****	NO. OF ASSEMBLIES STORED *****	NO. OF ASSEMBLIES REMAINING CAPACITY (NO. OF ASSEMBLIES) *****	(NO. OF ASSEMBLIES) *****		WILL FILL PRESENT AUTH. CAPACITY *****	
BIG ROCK POINT 1	84	441	212	229		04-88		1995
BROWNS FERRY 1	764	3471	1288	2183		N/S		1993
BROWNS FERRY 2	764	3471	1161	2310(m)	1819	N/S		1993
BROWNS FERRY 3	764	3471	1004	2467(m)		N/S		1993
BRUNSWICK 1	560	1803	160PWR+1016BWR	787		11-88		1990
BRUNSWICK 2	560	1839	144PWR+940BWR	899		01-88		1991
CLINTON 1	624	2672	0	2672		12-89		2010
COOPER STATION	548	2366	790	1576		03-88		1996
DRESDEN 1 (d)	464	672	221	451		N/S		1990
DRESDEN 2	724	3537	1413	2124		N/S		1993
DRESDEN 3	724	3537	1271	2266		03-88		1993
DUANE ARNOLD	368	2050	824	1226		10-88		1998
FERMI 2						N/S		
FITZPATRICK	540	2244	1200	484		08-88		1992
GRAND GULF 1	800	1440	0	1440		11-87		1993
HATCH 1	560	6026	1580	4446		N/S		1999
HATCH 2	560			1325		03-88		1999
HOPE CREEK 1						02-88		
HUMBOLDT BAY(d)	172	487	251	236		N/S		
LA CROSSE (d)	72	440	261	179		N/S		1992
LASALLE 1	764	2162	191	1971		03-88		1988
LASALLE 2	764					N/S		1988
LIMERICK 1	764	2040	0	2040		N/S		1993
MILLSTONE 1	580	2184	1732	452		03-89		1987



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\* BOILING \* STATUS OF SPENT FUEL STORAGE CAPABILITY  
\* WATER \*  
\* REACTORS \* (a)

FACILITY *****	(a)		NO. OF ASSEMBLIES STORED *****	REMAINING CAPACITY (NO. OF ASSEMBLIES) *****	REMAINING CAPACITY IF PENDING REQUEST APPROVED (NO. OF ASSEMBLIES) *****	NEXT REFUEL SCHED. DATE *****	(b)	
	CORE SIZE (NO. OF ASSEMBLIES) *****	PRESENT AUTH. STORAGE POOL CAP. (FUEL ASSEMBLIES) *****					WILL FILL PRESENT AUTH. CAPACITY *****	
MONTICELLO	484	2237	822	1415		12-87	1999	
NINE MILE POINT 1	532	2776	1377	1399		03-88	1996	
NINE MILE POINT 2					1788	N/S		
OYSTER CREEK 1	560	2600	1392	1208		N/S	1994	
PEACH BOTTOM 2	764	3819	1462	2357		03-87	1995	
PEACH BOTTOM 3	764	3819	1496	2323		03-87	1996	
PERRY 1	0	0	0	0		N/S		
PILGRIM 1	580	2320	1320	1000		09-89	1990	
QUAD CITIES 1	724	3657	1773	1884		06-89	2008	
QUAD CITIES 2	724	3897	1311	2586		04-88	2008	
RIVER BEND 1						09-87		
SUSQUEHANNA 1	764	2840	382	2458		N/S	1997	
SUSQUEHANNA 2	764	2840	0	2840		03-88	1997	
VERMONT YANKEE 1	368	2000	1296	704		N/S	1992	
WASHINGTON NUCLEAR*	764	2658	272	2386		04-88	1995	

INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS(h)

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- (l) This is the station total.
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N/S = Not Scheduled  
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Report Period FEB 1988

(INCLUDES BOTH LICENSED  
AND NON-LICENSED UNITS)

REACTOR YEARS OF EXPERIENCE

*****				*****				*****			
	YEARS	1ST ELEC GENERATE	UNIT	YEARS	1ST ELEC GENERATE	UNIT	YEARS	1ST ELEC GENERATE	UNIT		
* LICENSED *	13.58	08/01/74	ARKANSAS 1	9.18	12/26/76	ARKANSAS 2	11.71	06/14/76	BEAVER VALLEY 1		
* OPERATING *	.54	08/17/87	BEAVER VALLEY 2	25.23	12/08/62	BIG ROCK POINT 1	.64	07/12/87	BRAIDWOOD 1		
* ELECTRICAL *	14.38	10/15/73	BROWNS FERRY 1	13.51	08/28/74	BROWNS FERRY 2	11.47	09/12/76	BROWNS FERRY 3		
* PRODUCING *	11.24	12/04/76	BRUNSWICK 1	12.84	04/29/75	BRUNSWICK 2	3.00	03/01/85	BYRON 1		
* UNITS *	1.07	02/06/87	BYRON 2	3.35	10/24/84	CALLAWAY 1	13.16	01/03/75	CALVERT CLIFFS 1		
*****	11.23	12/07/76	CALVERT CLIFFS 2	3.10	01/22/85	CATAWA 1	1.79	05/18/86	CATAWA 2		
	.85	04/24/87	CLINTON 1	13.05	02/10/75	COOK 1	9.94	03/22/78	COOK 2		
	13.91	05/10/74	COOPER STATION	11.08	01/30/77	CRYSTAL RIVER 3	10.51	08/28/77	DAVIS-BESSE 1		
	3.30	11/11/84	DIABLO CANYON 1	2.36	10/20/85	DIABLO CANYON 2	17.88	04/13/70	DRESDEN 2		
	16.61	07/22/71	DRESDEN 3	13.79	05/19/74	DUANE ARNOLD	10.54	08/18/77	FARLEY 1		
	6.77	05/25/81	FARLEY 2	1.44	09/21/86	FERMI 2	13.08	02/01/75	FITZPATRICK		
	14.52	08/25/73	FORT CALHOUN 1	11.22	12/11/76	FORT ST VRAIN	18.25	12/02/69	GINN		
	3.36	10/20/84	GRAND GULF 1	20.57	08/07/67	HADDAM NECK	1.11	01/19/87	HARRIS 1		
	13.30	11/11/74	HATCH 1	9.44	09/22/78	HATCH 2	1.58	08/01/86	HOPE CREEK 1		
	14.68	06/26/73	INDIAN POINT 2	11.84	04/27/76	INDIAN POINT 3	13.90	04/08/74	KEWAUNEE		
	5.49	09/04/77	LASALLE 1	3.86	04/20/84	LASALLE 2	2.88	04/13/85	LIMERICK 1		
	15.31	11/08/77	MAINE YANKEE	6.67	06/30/81	MCGUIRE 1	4.77	05/23/83	MCGUIRE 2		
	17.25	11/29/70	MILLSTONE 1	12.31	11/09/75	MILLSTONE 2	2.05	02/12/86	MILLSTONE 3		
	16.99	03/05/71	MONTICELLO	18.31	11/09/69	NINE MILE POINT 1	.56	08/08/87	NINE MILE POINT 2		
	9.87	04/17/78	NORTH ANNA 1	7.52	08/25/80	NORTH ANNA 2	14.82	05/06/73	OCONEE 1		
	14.24	12/05/73	OCONEE 2	13.50	09/01/74	OCONEE 3	18.44	09/23/69	OYSTER CREEK 1		
	16.17	12/31/71	PALISADES	2.72	06/10/85	PALO VERDE 1	1.78	05/20/86	PALO VERDE 2		
	.26	11/28/87	PALO VERDE 3	14.03	02/18/74	PEACH BOTTOM 2	13.50	09/01/74	PEACH BOTTOM 3		
	1.20	12/19/86	PERRY 1	15.62	07/19/72	PILGRIM 1	17.32	11/06/70	POINT BEACH 1		
	15.58	08/02/72	POINT BEACH 2	14.24	12/04/73	PRAIRIE ISLAND 1	13.19	12/21/74	PRAIRIE ISLAND 2		
	15.89	04/12/72	QUAD CITIES 1	15.77	05/23/72	QUAD CITIES 2	13.38	10/13/74	RANCHO SECO 1		
	2.24	12/03/85	RIVER BEND 1	17.43	09/26/70	ROBINSON 2	11.18	12/25/76	SALEM 1		
	6.74	06/03/81	SALEM 2	20.63	07/16/67	SAN ONOFRE 1	5.45	09/20/82	SAN ONOFRE 2		
	4.43	09/25/83	SAN ONOFRE 3	7.61	07/22/80	SEQUOYAH 1	6.19	12/23/81	SEQUOYAH 2		
	11.82	05/07/76	ST LUCIE 1	4.72	06/13/83	ST LUCIE 2	5.29	11/16/82	SUMMER 1		
	15.66	07/04/72	SURRY 1	14.98	03/10/73	SURRY 2	5.29	11/16/82	SUSQUEHANNA 1		
	3.66	07/03/84	SUSQUEHANNA 2	13.70	06/19/74	THREE MILE ISLAND 1	12.19	12/23/75	TROJAN		
	15.33	11/02/72	TURKEY POINT 3	14.69	06/21/73	TURKEY POINT 4	15.44	09/20/72	VERMONT YANKEE 1		
	.93	03/27/87	VOGTLE 1	3.76	05/27/84	WASHINGTON NUCLEAR 2	2.95	03/18/85	WATERFORD 3		
	2.72	06/12/85	WOLF CREEK 1	27.30	11/10/60	YANKEE-ROWE 1	14.67	06/28/73	ZION 1		
	14.18	12/26/73	ZION 2								
TOTAL 1076.47 YRS											

*****				*****				
	YEARS	1ST ELEC GENERATE	SHUTDOWN DATE	UNIT	YEARS	1ST ELEC GENERATE	SHUTDOWN DATE	UNIT
* PERMANENTLY *	3.80	08/14/64	06/01/68	BONUS	3.04	12/18/63	01/01/67	CVTR
* OR *	18.54	04/15/60	10/31/78	DRESDEN 1	4.44	08/24/63	02/01/68	ELK RIVER
* INDEFINITELY *	6.32	08/05/66	11/29/72	FERMI 1	1.26	05/29/63	09/01/64	HALLAM
* SHUTDOWN *	13.21	04/18/63	07/02/76	HUMBOLDT BAY	12.12	09/16/62	10/31/74	INDIAN POINT 1
* UNITS *	19.01	04/26/68	04/30/87	LA CROSSE	1.19	07/25/66	10/01/67	PATHFINDER
*****	7.76	01/27/67	11/01/74	PEACH BOTTOM 1	2.16	11/04/63	01/01/66	PIQUA
	.93	04/21/78	03/28/79	THREE MILE ISLAND 2				
TOTAL 93.78 YRS								

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 \* RESEARCH \*  
 \* REACTORS \*  
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NON-POWER REACTORS IN THE U.S.

STATE	CITY	LICENSEE	REACTOR TYPE	DOCKET	LICENSE NUMBER	DATE OF ISSUED	AUTHORIZED POWER LEVEL (KW)
ALABAMA	TUSKEGEE	TUSKEGEE INSTITUTE	AGN-201 #102	50-406	R-122	08-30-74	0.0001
ARIZONA	TUCSON	UNIVERSITY OF ARIZONA	TRIGA MARK I	50-113	R-52	12-05-58	100.0
CALIFORNIA	BERKELEY	UNIVERSITY OF CALIFORNIA, BERKELEY COLLEGE	TRIGA MK. III	50-224	R-101	08-10-66	1000.0
	CANOGA PARK	ROCKWELL INTERNATIONAL CORP.	L-85	50-375	R-188	01-05-72	0.003
	HAWTHORNE	NORTHROP CORP. LABORATORIES	TRIGA MARK F	50-187	R-90	03-04-63	1000.0
	IRVINE	UNIVERSITY OF CALIFORNIA, IRVINE	TRIGA MARK I	50-326	R-116	11-24-69	250.0
	LOS ANGELES	UNIVERSITY OF CALIFORNIA, L.A.	ARGONAUT	50-142	R-71	10-03-60	100.0
	SAN DIEGO	GENERAL ATOMIC COMPANY	TRIGA MARK F	50-163	R-67	07-01-60	1500.0
	SAN DIEGO	GENERAL ATOMIC COMPANY	TRIGA MARK I	50-089	R-38	05-03-58	250.0
	SAN JOSE	GENERAL ELECTRIC COMPANY	NTR	50-073	R-33	10-31-57	100.0
	SAN LUIS OBISPO	CALIFORNIA STATE POLYTECHNIC COLLEGE	AGN-201 #100	50-394	R-121	05-16-73	0.0001
	SAN RAMON	AEROTEST OPERATIONS, INC.	TRIGA (INDUS)	50-228	R-98	07-02-65	250.0
SANTA BARBARA	UNIVERSITY OF CALIFORNIA, SANTA BARBARA	L-77	50-433	R-124	12-03-74	0.01	
COLORADO	DENVER	U.S. GEOLOGICAL SURVEY DEPARTMENT	TRIGA MARK I	50-274	R-113	02-24-69	1000.0
DELAWARE	NEWARK	UNIVERSITY OF DELAWARE	AGN-201 #113	50-098	R-43	07-03-58	0.0001
DIST OF COLUMBIA	WASHINGTON	THE CATHOLIC UNIVERSITY OF AMERICA	AGN-201 #101	50-077	R-31	11-15-67	0.0001
FLORIDA	GAINESVILLE	UNIVERSITY OF FLORIDA	ARGONAUT	50-083	R-56	05-21-59	100.0
GEORGIA	ATLANTA	GEORGIA INSTITUTE OF TECHNOLOGY	HEAVY WATER	50-160	R-97	12-29-64	5000.0
IDAHO	POCATELLO	IDAHO STATE UNIVERSITY	AGN-201 #103	50-284	R-110	10-11-67	0.0001
ILLINOIS	URBANA	UNIVERSITY OF ILLINOIS	LOPRA	50-356	R-117	12-27-71	10.0
	URBANA	UNIVERSITY OF ILLINOIS	TRIGA	50-151	R-115	07-22-69	1500.0
	ZION	WESTINGHOUSE ELECTRIC CORP.	NTR	50-087	R-119	01-28-72	10.0
INDIANA	LAFAYETTE	PURDUE UNIVERSITY	LOCKHEED	50-182	R-87	08-16-62	10.0
IOWA	AMES	IOWA STATE UNIVERSITY	UTR-10	50-116	R-59	10-16-59	10.0
KANSAS	LAWRENCE	UNIVERSITY OF KANSAS	LOCKHEED	50-148	R-78	06-23-61	250.0
	MANHATTAN	KANSAS STATE UNIVERSITY	TRIGA	50-188	R-88	10-16-62	250.0
MARYLAND	BETHESDA	ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE	TRIGA	50-170	R-84	06-26-62	1000.0
	COLLEGE PARK	UNIVERSITY OF MARYLAND	TRIGA	50-166	R-70	10-14-60	250.0
MASSACHUSETTS	CAMBRIDGE	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	HWR REFLECTED	50-020	R-37	06-09-58	5000.0

\*\*\*\*\*  
 \* RESEARCH \*  
 \* REACTORS \*  
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NON-POWER REACTORS IN THE U.S.

STATE	CITY	LICENSEE	REACTOR TYPE	DUCKET	LICENSE NUMBER	DATE OF ISSUED	AUTHORIZED POWER LEVEL (KW)
MASSACHUSETTS	LOWELL WORCESTER	UNIVERSITY OF LOWELL WORCESTER POLYTECHNIC INSTITUTE	GE	50-223	R-125	12-24-74	1000.0
			GE	50-134	R-61	12-16-59	10.0
MICHIGAN	ANN ARBOR EAST LANSING MIDLAND	UNIVERSITY OF MICHIGAN MICHIGAN STATE UNIVERSITY DOW CHEMICAL COMPANY	POOL	50-002	R-28	09-13-57	2000.0
			TRIGA MARK I	50-294	R-114	03-21-69	250.0
			TRIGA	50-264	R-108	07-03-67	100.0
MISSOURI	COLUMBIA ROLLA	UNIVERSITY OF MISSOURI, COLUMBIA UNIVERSITY OF MISSOURI	TANK	50-186	R-103	10-11-66	10000.0
			POOL	50-123	R-79	11-21-61	200.0
NEBRASKA	OMAHA	THE VETERANS ADMINISTRATION HOSPITAL	TRIGA	50-131	R-57	06-26-59	18.0
NEW MEXICO	ALBUQUERQUE	UNIVERSITY OF NEW MEXICO	AGN-201M #112	50-252	R-102	09-17-66	0.005
NEW YORK	BRONX BUFFALO ITHACA ITHACA NEW YORK TUXEDO	MANHATTAN COLLEGE - PYHSICS DEPT. STATE UNIVERSITY OF NEW YORK CORNELL UNIVERSITY CORNELL UNIVERSITY COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK CINTICHEM INC.	TANK	50-199	R-94	03-24-64	0.0001
			PULSTAR	50-057	R-77	03-24-61	2000.0
			TRIGA MARK II	50-157	R-80	01-11-62	100.0
			ZPR	50-097	R-89	12-11-62	0.1
			TRIGA MARK II	50-208	R-128	04-14-77	250.0
			POOL	50-054	R-81	09-07-61	5000.0
NORTH CAROLINA	RALEIGH	NORTH CAROLINA STATE UNIVERSITY AT RALEIGH	PULSTAR	50-297	R-120	08-25-72	1000.0
OHIO	COLUMBUS	OHIO STATE UNIVERSITY	POOL	50-150	R-75	02-24-61	10.0
OKLAHOMA	NORMAN	THE UNIVERSITY OF OKLAHOMA	AGN-211 #102	50-112	R-53	12-29-58	0.015
OREGON	CORVALLIS PORTLAND	OREGON STATE UNIVERSITY REED COLLEGE	TRIGA MARK II	50-243	R-106	03-07-67	1000.0
			TRIGA MARK I	50-288	R-112	07-02-68	250.0
PENNSYLVANIA	UNIVERSITY PARK	PENNSYLVANIA STATE UNIVERSITY	TRIGA MK. III	50-005	R-2	07-08-55	1000.0
RHODE ISLAND	NARRAGANSETT	RHODE ISLAND NUCLEAR SCIENCE CENTER	GE POOL	50-193	R-95	07-21-64	2000.0
TENNESSEE	MEMPHIS	MEMPHIS STATE UNIVERSITY	AGN-201 #108	50-538	R-127	12-10-76	0.0001
TEXAS	AUSTIN COLLEGE STATION COLLEGE STATION	UNIVERSITY OF TEXAS TEXAS A&M UNIVERSITY TEXAS A&M UNIVERSITY	TRIGA MARK I	50-192	R-92	08-26-63	250.0
			AGN-201M #106	50-059	R-23	08-26-57	0.005
			TRIGA	50-128	R-83	12-07-61	1000.0
UTAH	PROVO SALT LAKE CITY	BRIGHAM YOUNG UNIVERSITY THE UNIVERSITY OF UTAH	L-77	50-262	R-109	09-07-67	0.01
			TRIGA MARK I	50-407	R-126	09-30-75	100.0

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 \* RESEARCH \*  
 \* REACTORS \*  
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NON-POWER REACTORS IN THE U. S.

STATE	CITY	LICENSEE	REACTOR TYPE	DOCKET	LICENSE NUMBER	DATE OF ISSUED	AUTHORIZED POWER LEVEL (KW)
UTAH	SALT LAKE CITY	UNIVERSITY OF UTAH	AGN-201M	#107	50-072 R-25	09-12-57	0.005
VIRGINIA	BLACKSBURG CHARLOTTESVILLE CHARLOTTESVILLE LYNCHBURG	VIRGINIA POLYTECHNIC INSTITUTE UNIVERSITY OF VIRGINIA UNIVERSITY OF VIRGINIA BABCOCK & WILCOX COMPANY	UTR-10		50-124 R-62	12-18-59	100.0
			CAVALIER		50-396 R-123	09-24-74	0.1
			POOL		50-062 R-66	06-27-60	2000.0
			LPR		50-099 R-47	09-05-58	1000.0
WASHINGTON	PULLMAN SEATTLE	WASHINGTON STATE UNIVERSITY UNIVERSITY OF WASHINGTON	TRIGA		50-027 R-76	03-06-61	1000.0
			ARGONAUT		50-139 R-73	03-31-61	100.0
WISCONSIN	MADISON	UNIVERSITY OF WISCONSIN	TRIGA		50-156 R-74	11-23-60	1000.0

\*\*\*\*\*  
 \* EXPERIMENTAL AND TEST REACTORS \*  
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CALIFORNIA	SAN JOSE	GENERAL ELECTRIC COMPANY	GETR		50-070 TR-1	01-07-59	50.0
DIST OF COLUMBIA	WASHINGTON	NATIONAL BUREAU OF STANDARDS	TEST		50-184 TR-5	06-30-70	10.0

\*\*\*\*\*  
 \* CRITICAL EXPERIMENT FACILITIES \*  
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NEW YORK	TROY	RENSSELAER POLYTECHNIC INSTITUTE			50-225 CX-22	07-03-64	0.0
WASHINGTON	RICHLAND	BATTELLE MEMORIAL INSTITUTE			50-360 CX-26	11-29-71	0.0

BIBLIOGRAPHIC DATA SHEET

NUREG 0020, Volume 12, No. 3

SEE INSTRUCTIONS ON THE REVERSE

2. TITLE AND SUBTITLE

Licensed Operating Reactors  
Status Summary Report

3. LEAVE BLANK

4. DATE REPORT COMPLETED

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1988

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11. TYPE OF REPORT

12. PERIOD COVERED (Inclusive dates)

February 1988

12. SUPPLEMENTARY NOTES

Status Summary Report

13. ABSTRACT (200 words or less)

The OPERATING UNITS STATUS REPORT - LICENSED OPERATING REACTORS provides data on the operation of nuclear units as timely and accurately as possible. This information is collected by the Office of Administration and Resources Management from the Headquarters staff of NRC's Office of Enforcement (OE), from NRC's Regional Offices, and from utilities. The three sections of the report are: monthly highlights and statistics for commercial operating units, and errata from previously reported data; a compilation of detailed information on each unit, provided by NRC's Regional Offices, OE Headquarters and the utilities; and an appendix for miscellaneous information such as spent fuel storage capability, reactor-years of experience and non-power reactors in the U. S. It is hoped the report is helpful to all agencies and individuals interested in maintaining an awareness of the U. S. energy situation as a whole.

14. DOCUMENT ANALYSIS - a. KEYWORDS/DESCRIPTORS

Licensed Operating Reactors  
Commercial Operating Units

15. AVAILABILITY STATEMENT

16. SECURITY CLASSIFICATION

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(This report)

17. NUMBER OF PAGES

18. PRICE

b. IDENTIFIERS/OPEN ENDED TERMS

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