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Vol. 12, No. 1
January 1988

LICENSED OPERATING REACTORS

STATUS SUMMARY REPORT

DATA AS OF 12-31-87

UNITED STATES NUCLEAR REGULATORY COMMISSION



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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 (MWt)	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	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. 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.

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

***** 102 IN COMMERCIAL OPERATION 88,191 CAPACITY MWe (Net) --Based upon maximum dependable
 * LICENSED * (a) 4 IN POWER ASCENSION. 4,514 capacity; design elec. rating
 * POWER * --- used if MDC not determined
 * REACTORS * (b) 106 LICENSED TO OPERATE 92,705 TOTAL
 ***** (c) 3 LICENSED FOR FUEL LOADING
 AND LOW POWER TESTING

	MDC NET		DER		DATE	DER
(a) FERM 2	1093	(b) Excludes these plants	1. DRESDEN 1.....200	(c) SHOREHAM	07/03/85	820
BRAIDWOOD 1	1120	licensed for operation	2. HUMBOLDT BAY.....65	SOUTH TEXAS 1	08/21/87	1250
NINE MILE POINT 2	1080	which are shut down	3. TMI 2.....906	BRAIDWOOD 2	12/18/87	1120
PALO VERDE 3	1221	indefinitely	4. LaCROSSE50			
		or permanently				

		REPORT MONTH	PREVIOUS MONTH	YEAR-TO-DATE
***** 1. GROSS ELECTRICAL (MWHE)		43,183,081	38,226,301	469,212,562
* POWER * 2. NET ELECTRICAL (MWHE)		41,089,795	36,318,977	445,789,016
* GENERATION * 3. AVG. UNIT SERVICE FACTOR (%)		70.4	65.3	67.2
***** 4. AVG. UNIT AVAILABILITY FACTOR (%)		70.4	65.3	67.2
5. AVG. UNIT CAPACITY FACTOR (MDC) (%)		65.4	60.9	62.0
6. AVG. UNIT CAPACITY FACTOR (DER) (%)		63.9	59.5	60.5
7. FORCED OUTAGE RATE (%)		14.1	12.8	15.1

		% OF POTENTIAL PRODUCTION
***** 1. ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD. . .	41,089,795 NET	62.6
* ACTUAL VS. * 2. ENERGY NOT PRODUCED DUE TO SCHEDULED OUTAGES (NET). . .	11,849,003 MWe	18.1
* POTENTIAL * 3. ENERGY NOT PRODUCED DUE TO FORCED OUTAGES (NET)	9,262,284 MWe	14.1
* ENERGY * 4. ENERGY NOT PRODUCED FOR OTHER REASONS (NET)	3,413,022 MWe	5.2
* PRODUCTION * 5. ENERGY NOT PRODUCED DUE TO NRC-REQUIRED OUTAGES	850,977 MWe	
***** 6. ENERGY NOT PRODUCED DUE TO NRC RESTRICTED POWER LEVELS. MWe	
POTENTIAL ENERGY PRODUCTION IN THIS PERIOD BY UNITS IN COMMERCIAL OPERATION	65,614,104 MWe	100.0% TOTAL
(Using Maximum Dependable Capacity Net)		

4 UNIT(S) WITH NRC
RESTRICTION

	NUMBER	HOURS	PERCENT OF CLOCK TIME	MWHE LOST PRODUCTION
***** 1. FORCED OUTAGES DURING REPORT PERIOD	49	10,037.8	13.2	9,262,284
* OUTAGE * 2. SCHEDULED OUTAGES DURING REPORT PERIOD.	33	12,422.6	16.4	11,849,003
* DATA * TOTAL	82	22,460.4	29.6	21,111,287

MWHE LOST PRODUCTION = Down time X maximum dependable capacity net

MONTHLY HIGHLIGHTS

		NUMBER	HOURS LOST
*****	A - Equipment Failure	32	4,224.7
* REASONS *	B - Maintenance or Test	14	1,326.2
* FOR *	C - Refueling	20	10,721.0
* SHUTDOWNS *	D - Regulatory Restriction	2	988.2
*****	E - Operator Training & License Examination	0	0.0
	F - Administrative	6	3,994.8
	G - Operational Error	1	76.2
	H - Other	7	1,129.3
	TOTAL	82	22,460.4

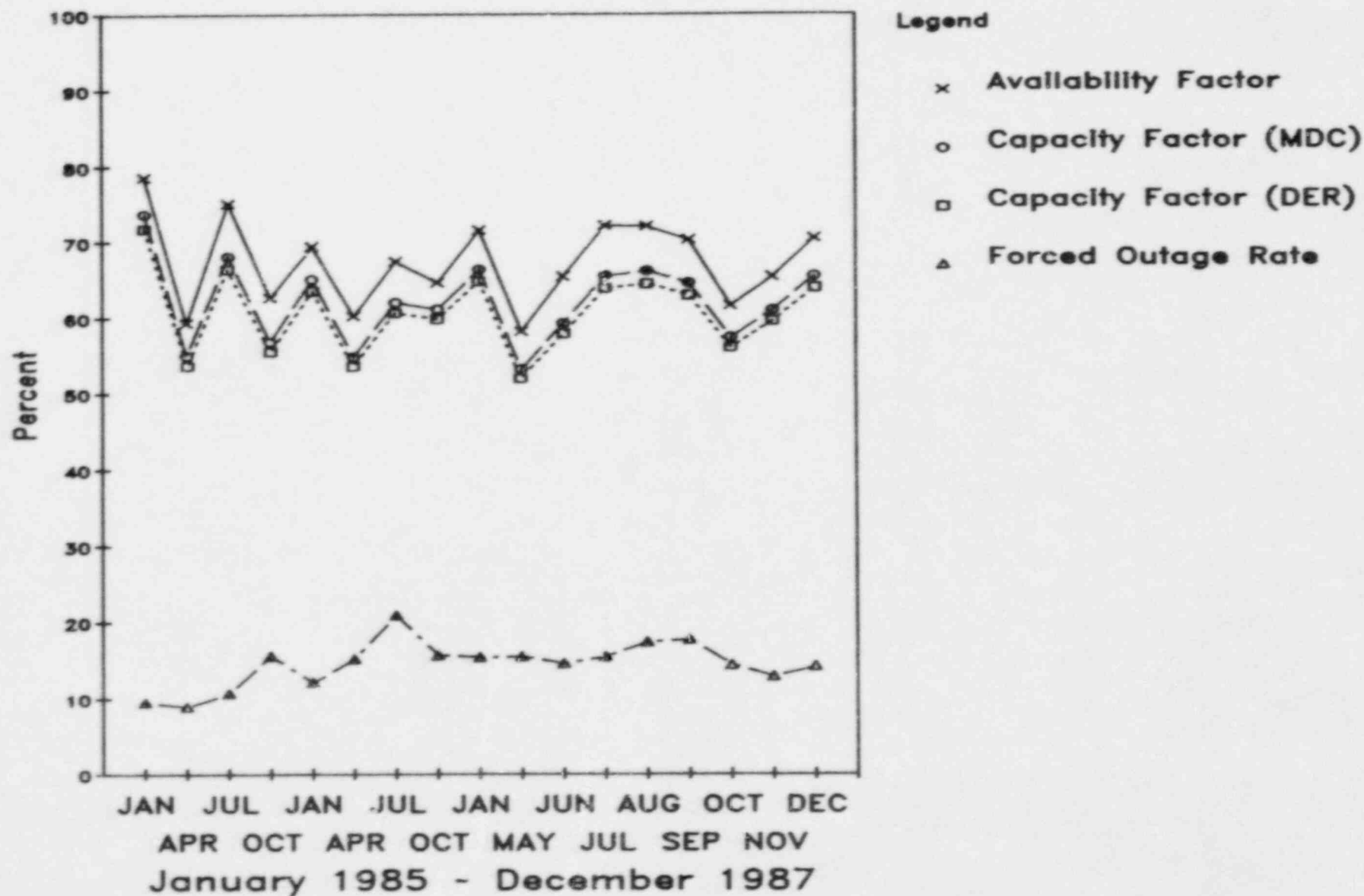
	MDC (MWe Net)	POWER LIMIT (MWe Net)	TYPE

* 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
	HATCH 2 761	596	Self-imposed
	LASALLE 1 1036	990	Self-imposed
	OCONEE 2 860	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
*****	BEAVER VALLEY 1	C	BIG ROCK POINT 1	A	BROWNS FERRY 1	F	BROWNS FERRY 2	F
* SHUTDOWNS *	BROWNS FERRY 3	F	BYRON 2	H	CATAWBA 1	A,C	CATAWBA 2	C
* GREATER *	CRYSTAL RIVER 3	C	DIABLO CANYON 1	A	FARLEY 1	D	FARLEY 2	B,C
* THAN 72 HRS *	FORT ST VRAIN	A,G						
* EACH *	FORT ST VRAIN	H	GRAND GULF 1	C	HADDAM NECK	C	INDIAN POINT 2	C
* EACH *	LASALLE 1	A	MILLSTONE 3	C	MONTICELLO	C	NINE MILE POINT 1	A,A
*****	NORTH ANNA 1	A	PALISADES	A	PALO VERDE 1	C	PEACH BOTTOM 2	C
	PEACH BOTTOM 3	C	PERRY 1	A	PILGRIM 1	C	QUAD CITIES 1	C
	RANCHO SECO 1	D	RIVER BEND 1	A,C	SALEM 1	B,C	SALEM 2	B
	SAN ONOFRE 2	C	SEQUOYAH 1	F	SEQUOYAH 2	F	SURRY 2	H
	SUSQUEHANNA 1	F	TROJAN	A	TURKEY POINT 3	A,A	TURKEY POINT 4	H
	WASHINGTON NUCLEAR*	B	WOLF CREEK 1	C				

Unit Availability, Capacity, Forced Outage

Avg Unit Percentage as of December 1987



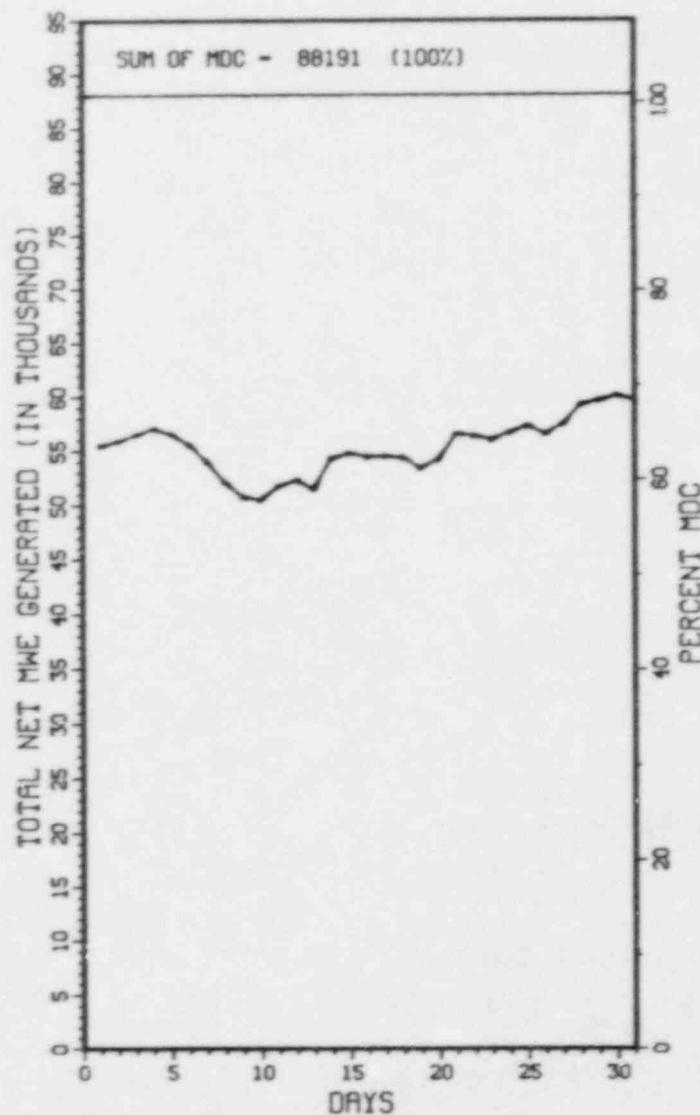
AVERAGE DAILY POWER LEVEL FOR ALL COMMERCIALY OPERATING UNITS

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

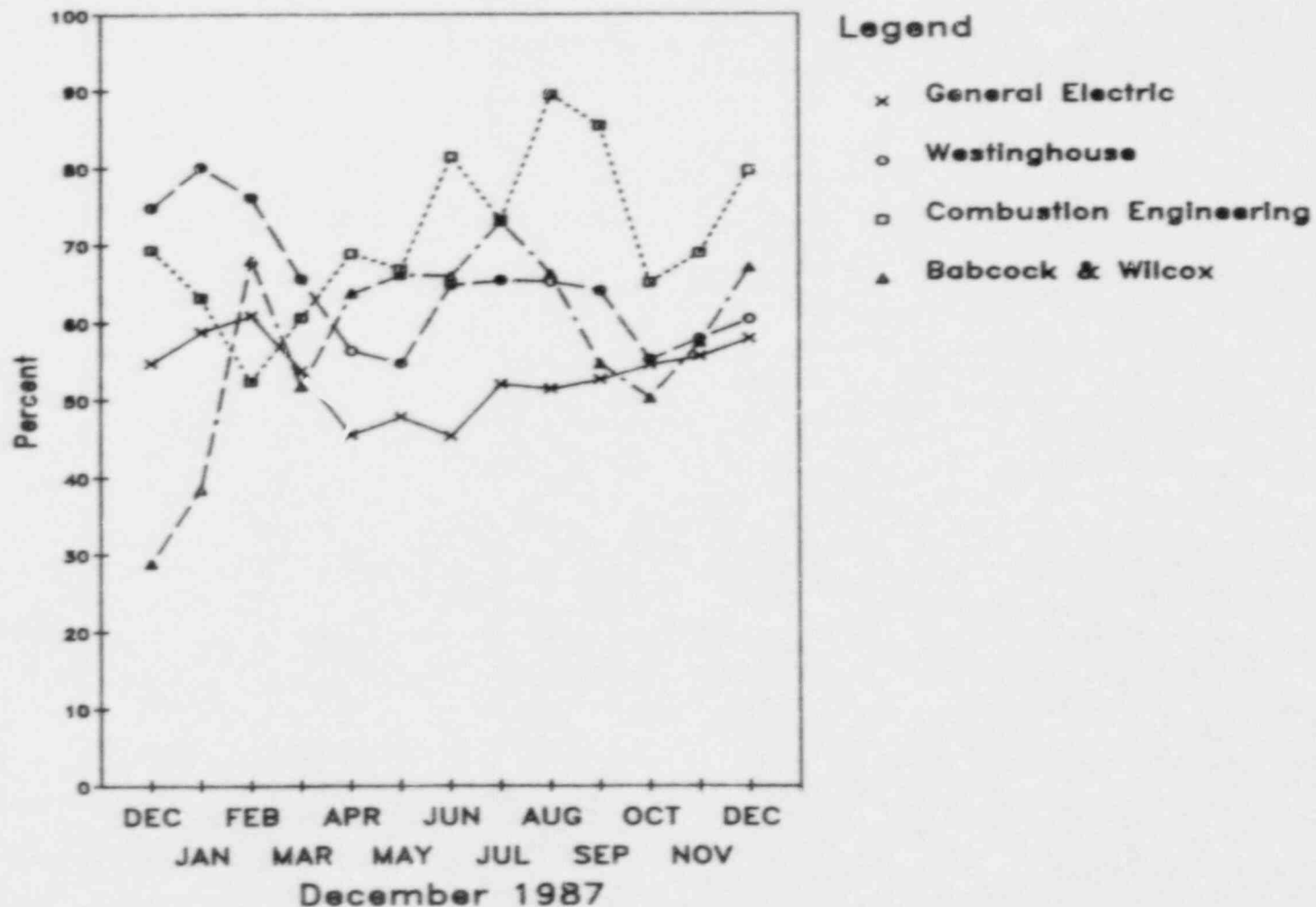
The straight line on the graph labelled "SUM OF MDC" is plotted at the value shown by summing the separate maximum dependable capacities of the commercially operating units (in Net MWe). The plot shown below the line is calculated by summing the separate average daily power levels of the same units for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



Vendor Average Capacity Factors As of 12/31/87



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

***** CFMDC
 * GENFAL * 0.0 BROWNS FERRY 1
 * ELECTRIC * 66.5 BRUNSWICK 2

 91.7 DRESDEN 3
 100.7 HATCH 1
 89.7 LASALLE 2
 33.8 NINE MILE POINT 1
 59.2 PERPY 1
 8.3 RIVER BEND 1
 79.9 WASHINGTON NUCLEAR 2

CFMDC
 0.0 BROWNS FERRY 2
 82.5 CLINTON 1
 97.0 DUANE ARNOLD
 73.7 HATCH 2
 95.7 LIMERICK 1
 104.1 OYSTER CREEK 1
 0.0 PILGRIM 1
 56.1 SUSQUEHANNA 1

CFMDC
 0.0 BROWNS FERRY 3
 93.3 COOPER STATION
 92.4 FITZPATRICK
 93.1 HOPE CREEK 1
 99.8 MILLSTONE 1
 0.0 PEACH BOTTOM 2
 4.5 QUAD CITIES 1
 100.2 SUSQUEHANNA 2

CFMDC
 96.5 BRUNSWICK 1
 87.2 DRESDEN 2
 0.0 GRAND GULF 1
 70.2 LASALLE 1
 39.2 MONTICELLO
 0.0 PEACH BOTTOM 3
 92.4 QUAD CITIES 2
 101.3 VERMONT YANKEE 1

***** CFMDC
 * BABCOCK & * 79.8 ARKANSAS 1
 * WILCOX * 80.3 OCONEE 2

CFMDC
 0.0 CRYSTAL RIVER 3
 98.8 OCONEE 3

CFMDC
 74.8 DAVIS-BESSE 1
 0.0 RANCHO SECO 1

CFMDC
 98.7 OCONEE 1
 106.7 THREE MILE ISLAND 1

***** CFMDC
 * COMBUSTION * 104.0 ARKANSAS 2
 * ENGINEERING * 98.2 MAINE YANKEE

 102.7 PALO VERDE 2
 97.5 ST LUCIE 2

CFMDC
 106.0 CALVERT CLIFFS 1
 92.6 MILLSTONE 2
 39.1 SAN ONOFRE 2
 90.2 WATERFORD 3

CFMDC
 97.1 CALVERT CLIFFS 2
 11.1 PALISADES
 104.8 SAN ONOFRE 3

CFMDC
 102.1 FORT CALHOUN 1
 0.0 PALO VERDE 1
 100.5 ST LUCIE 1

***** CFMDC
 * WESTINGHOUSE * 23.1 BEAVER VALLEY 1

 98.2 CALLAWAY 1
 79.1 COOK 2
 8.0 FARLEY 2
 0.0 INDIAN POINT 2
 96.6 MCGUIRE 2
 102.1 POINT BEACH 1
 110.3 ROBINSON 2
 0.0 SEQUOYAH 1
 47.5 SURRY 2
 97.7 VOGTLE 1
 94.7 ZION 2

CFMDC
 88.2 BEAVER VALLEY 2
 0.0 CATAWBA 1
 71.6 DIABLO CANYON 1
 102.9 GINNA
 88.5 INDIAN POINT 3
 0.0 MILLSTONE 3
 97.6 POINT BEACH 2
 0.0 SALEM 1
 0.0 SEQUOYAH 2
 40.4 TROJAN
 0.0 WOLF CREEK 1

CFMDC
 87.2 BYRON 1
 48.3 CATAWBA 2
 92.9 DIABLO CANYON 2
 0.0 HADDAM NECK
 102.9 KEWAUNEE
 68.2 NORTH ANNA 1
 104.6 PRAIRIE ISLAND 1
 43.2 SALEM 2
 100.6 SUMMER 1
 4.7 TURKEY POINT 3
 102.0 YANKEE-ROWE 1

CFMDC
 10.9 BYRON 2
 86.5 COOK 1
 60.2 FARLEY 1
 100.3 HARRIS 1
 89.1 MCGUIRE 1
 100.0 NORTH ANNA 2
 94.3 PRAIRIE ISLAND 2
 86.0 SAN ONOFRE 1
 93.1 SURRY 1
 86.0 TURKEY POINT 4
 93.3 ZION 1

***** Units excluded are:
 * OTHER INFO * 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 x 100%

Potential Electrical Production by Vendor in this Month

	GE BWRs	West PWRs	Comb PWRs	B&W PWRs	ALL PWRs
NET ELECTRICAL PRODUCTION.....	12,334,091	17,783,237	7,560,839	3,358,039	28,702,115
MDC NET.....	28,674	39,644	12,728	6,746	59,118
CFMDC.....	57.8	60.3	79.8	66.9	65.3

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

SECTION 2

**OPERATING
POWER
REACTORS**

1. Docket: 50-313 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWh): 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

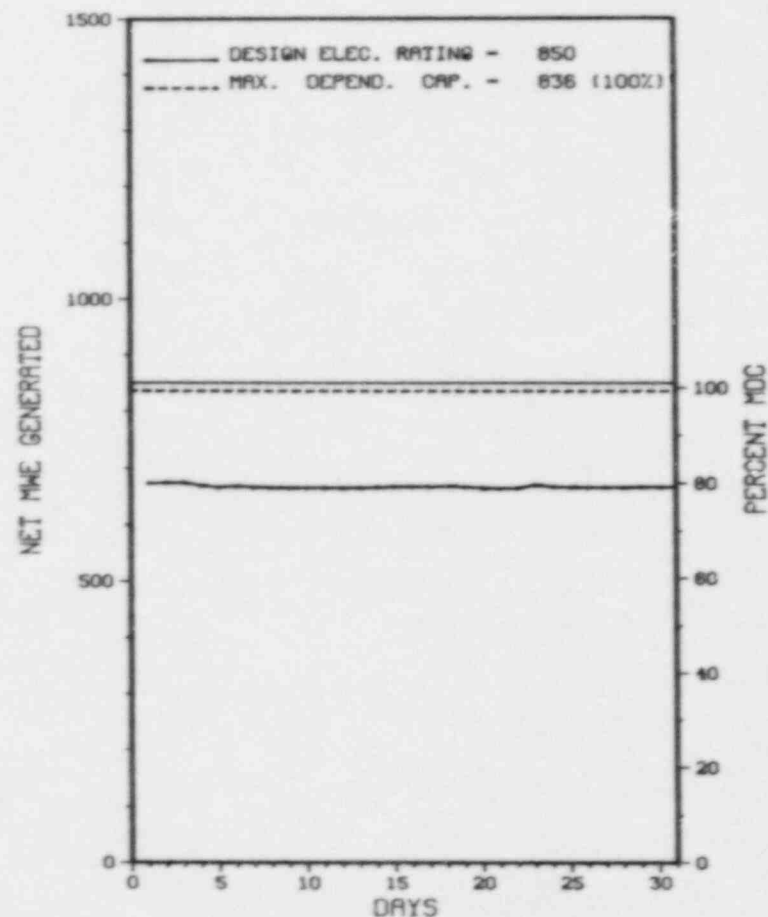
10. Power Level To Which Restricted, If Any (Net MWe):

11. Reasons for Restrictions, If Any:

* ARKANSAS 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ARKANSAS 1



	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>114,259.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,855.7</u>	<u>79,055.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,044.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,723.1</u>	<u>77,428.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>817.5</u>
17. Gross Therm Ener (MWH)	<u>1,526,152</u>	<u>15,111,714</u>	<u>178,835,007</u>
18. Gross Elec Ener (MWH)	<u>522,415</u>	<u>5,040,270</u>	<u>59,267,130</u>
19. Net Elec Ener (MWH)	<u>496,248</u>	<u>4,763,342</u>	<u>56,389,377</u>
20. Unit Service Factor	<u>100.0</u>	<u>88.2</u>	<u>67.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>88.2</u>	<u>68.5</u>
22. Unit Cap Factor (MDC Net)	<u>79.8</u>	<u>65.0</u>	<u>59.0</u>
23. Unit Cap Factor (DER Net)	<u>78.5</u>	<u>64.0</u>	<u>58.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>4.4</u>	<u>13.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>359.6</u>	<u>12,397.6</u>

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

NONE

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

DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* ARKANSAS 1 *

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

* SUMMARY *

ARKANSAS 1 OPERATED AT 80% FULL POWER IN DECEMBER FOR FUEL CONSERVATION.

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 *

FACILITY DATA

Report Period DEC 1987

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

IE 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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED JULY 20-24, 1987 (87-20) ROUTINE, ANNOUNCED INSPECTION OF LICENSEE'S CORRECTIVE ACTION PROGRAM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED OCT.19-23, 1987 (87-26) ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S CORRECTIVE ACTION PROGRAM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED AUG.18-20, 1987 (87-29) SPECIAL INSPECTION RELATING TO THE EFFECTS OF HIGH CONTAINMENT TEMPERATURES ON COMPONENTS AND STRUCTURES OF AND I, UNIT 1 AND TO THE CONTAINMENT TEMPERATURE PROFILES OF UNIT 2. THREE VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED SEPT.14-18, 1987 (87-32) ROUTINE, ANNOUNCED INSPECTION OF NONROUTINE EVENT REPORTING RECORDS RETENTION PROGRAM, AND FOLLOWUP ON GENERIC LETTERS AND PREVIOUSLY IDENTIFIED ITEMS. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

INSPECTION CONDUCTED NOV.16-20, 1987 (87-33) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S CHEMISTRY/RADIOISOTOPE MONITORING PROGRAM AND WATER CHEMISTRY AND RADIOCHEMISTRY CONFIRMATORY MEASUREMENTS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. THREE PREVIOUSLY IDENTIFIED VIOLATIONS WERE CLOSED.

INSPECTION CONDUCTED OCT.1-31, 1987 (87-36) ROUTINE, UNANNOUNCED INSPECTION INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, AND FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION SUMMARY

WERE IDENTIFIED.

INSPECTION CONDUCTED NOV.1-30, 1987 (87-38) ROUTINE, UNANNOUNCED INSPECTION INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, 10 CFR PART 21 REPORTS, COLD WEATHER PREPARA-TIONS, AND CONTAINMENT INTEGRITY. WITHIN THE AREAS INSPECTED, NO VIOLA-TIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, THE LI CENSEE FAILED TO IMPLEMENT AN ADEQUATE PREVENTIVE MAINTENANCE PROGRAM FOR LUBRICATION OF PUMP COUP LINGS. INADEQUATE PA DETECTION AIDS - E FIELD COULD BE DEFEATED AND NO BACKUP IDS SYSTEM. CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, THE LI CENSEE FAILED TO IMPLEMENT AN ADEQUATE PREVENTIVE MAINTENANCE PROGRAM FOR LUBRICATION OF PUMP COUP LINGS. LACK OF KEY CONTROL - UNIT 2 ONLY. INADEQUATE PA DETECTION AIDS - E FIELD COULD BE DEFEATED AND NO BACKUP IDS SYSTEM. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, THE REQUIREMENT WAS NOT MET FOR SEALING OF ELECTRICAL CONDUIT AS REQUIRED BY PLANT DRAWING 45B891-1. NOTE FOUR OF THE DRAWING STATES TO SEAL AROUND CABLES INSIDE CONDUITS TO KEEP WATER FROM ENTERING ELECTRICAL TERMINATION COMPARTMENTS. AFTER AN INADVERTENT INITIATION OF THE FIXED SPRAY FIRE PROTECTION SYSTEM ON AUGUST 31, 1987 TWO OF THE SCRAM DISCHARGE INSTRUMENT VOLUME INSTRUMENTS (3-LE-85-45J AND 3-LE-85-45L) WERE FOUND FULL OF WATER. THE CONDUIT LEADING TO THE INSTRUMENTS WAS NOT SEALED AT THE CONDUIT OPENING LEADING FROM THE RESPECTIVE CABLE TRAY. CONDUIT SEALING PROBLEMS WERE IDENTIFIED DURING A PREVIOUS INITIATION OF THE FIXED SPRAY SYSTEM AS DETAILED IN INSPECTION REPORT 86-16. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION XVII, THIS REQUIREMENT WAS NOT MET IN THAT THE PLANT OPERATIONS REVIEW COMMITTEE APPROVED COPY OF SPECIAL TEST 87-23 PERFORMED ON JUNE 26, 1987, COULD NOT BE LOCATED. A FURTHER SEARCH BY THE LICENSEE REVEALED ADDITIONAL MISSING RECORDS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, THE REQUIREMENT WAS NOT MET FOR SEALING OF ELECTRICAL CONDUIT AS REQUIRED BY PLANT DRAWING 45B891-1. NOTE FOUR OF THE DRAWING STATES TO SEAL AROUND CABLES INSIDE CONDUITS TO KEEP WATER FROM ENTERING ELECTRICAL TERMINATION COMPARTMENTS. AFTER AN INADVERTENT INITIATION OF THE FIXED SPRAY FIRE PROTECTION SYSTEM ON AUGUST 31, 1987 TWO OF THE SCRAM DISCHARGE INSTRUMENT VOLUME INSTRUMENTS (3-LE-85-45J AND 3-LE-85-45L) WERE FOUND FULL OF WATER. THE CONDUIT LEADING TO THE INSTRUMENTS WAS NOT SEALED AT THE CONDUIT OPENING LEADING FROM THE RESPECTIVE CABLE TRAY. CONDUIT SEALING PROBLEMS WERE IDENTIFIED DURING A PREVIOUS INITIATION OF THE FIXED SPRAY SYSTEM AS DETAILED IN INSPECTION REPORT 86-16. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION XVII, THIS REQUIREMENT WAS NOT MET IN THAT THE PLANT OPERATIONS REVIEW COMMITTEE APPROVED COPY OF SPECIAL TEST 87-23 PERFORMED ON JUNE 26, 1987, COULD NOT BE LOCATED. A FURTHER SEARCH BY THE LICENSEE REVEALED ADDITIONAL MISSING RECORDS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION III AND NUREG-0737, THE LICENSEE FAILED TO ESTABLISH MEASURES TO RANGE RADIATION MONITORING SYSTEM (CHRRMS) WERE CORRECTLY TRANSLATED INTO SPECIFICATIONS, PROCEDURES, AND INSTRUCTIONS IN THREE EXAMPLES GIVEN. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, THE REQUIREMENT WAS NOT MET FOR SEALING OF ELECTRICAL CONDUIT AS REQUIRED BY PLANT DRAWING 45B891-1. NOTE FOUR OF THE DRAWING STATES TO SEAL AROUND CABLES INSIDE CONDUITS TO KEEP WATER FROM ENTERING ELECTRICAL TERMINATION COMPARTMENTS. AFTER AN INADVERTENT INITIATION OF THE FIXED SPRAY FIRE PROTECTION SYSTEM ON AUGUST 31, 1987 TWO OF THE SCRAM DISCHARGE INSTRUMENT VOLUME INSTRUMENTS (3-LE-85-45J AND 3-LE-85-45L) WERE FOUND FULL OF WATER. THE CONDUIT LEADING TO THE INSTRUMENTS WAS NOT SEALED AT THE CONDUIT OPENING LEADING FROM THE RESPECTIVE CABLE TRAY. CONDUIT SEALING PROBLEMS WERE IDENTIFIED DURING A PREVIOUS INITIATION OF THE FIXED SPRAY SYSTEM AS DETAILED IN INSPECTION REPORT 86-16. (8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ONE REACTOR COOLANT PUMP OUT OF SERVICE

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXX
X ARKANSAS 1 X
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: NOV. 30, 1987

INSPECTION REPORT NO: 50-313/87-38

REPORTS FROM LICENSEE

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-006	01/10/87	12/03/87	FAILURE TO PERFORM PENETRATION ROOM VENTILATION SYSTEM SURVEILLANCE PRIOR TO ESTABLISHING REACTOR BUILDING INTEGRITY DUE TO INADEQUATE PROCEDURAL GUIDANCE AND PERSONNEL ERROR
87-007	11/06/87	12/07/87	SINGLE FAILURE DESIGN CRITERIA NOT MET FOR THE STANDBY PENETRATION ROOM VENTILATION SYSTEM

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWh): 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>744.0</u>	<u>8,760.0</u>	<u>68,088.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,715.4</u>	<u>49,767.4</u>
14. Rx Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>1,430.1</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,681.7</u>	<u>48,393.4</u>
16. Unit Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>75.0</u>
17. Gross Therm Ener (MWH)	<u>2,086,990</u>	<u>20,988,443</u>	<u>124,857,557</u>
18. Gross Elec Ener (MWH)	<u>693,945</u>	<u>6,926,635</u>	<u>40,999,411</u>
19. Net Elec Ener (MWH)	<u>663,853</u>	<u>6,605,168</u>	<u>39,019,497</u>
20. Unit Service Factor	<u>100.0</u>	<u>87.7</u>	<u>71.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>87.7</u>	<u>71.2</u>
22. Unit Cap Factor (MDC Net)	<u>104.0</u>	<u>87.9</u>	<u>66.8</u>
23. Unit Cap Factor (DER Net)	<u>97.8</u>	<u>82.7</u>	<u>62.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>12.3</u>	<u>14.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,078.3</u>	<u>8,336.0</u>

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

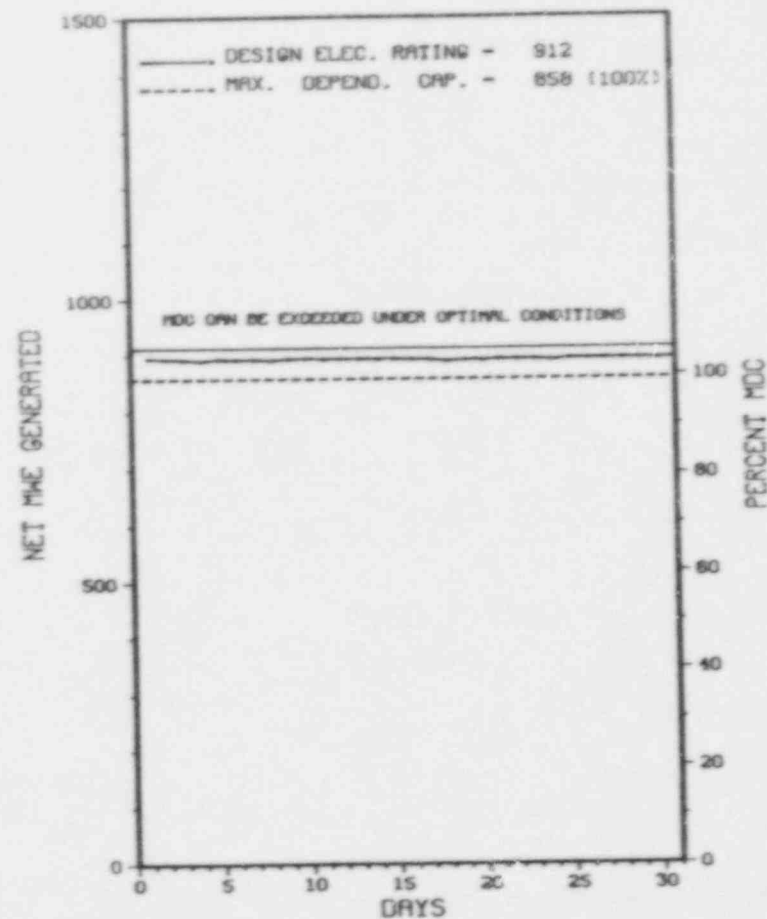
REFUELING 2/12/88. DURATION 72 DAYS.

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

* ARKANSAS 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ARKANSAS 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

ARKANSAS 2

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

* SUMMARY *

ARKANSAS 2 OPERATED ROUTINELY IN DECEMBER 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-Main' 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 2 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....ARKANSAS

COUNTY.....POPE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 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.....G. DICK
DOCKET NUMBER.....50-368

LICENSE & DATE ISSUANCE...NPF-6, SEPTEMBER 1, 1978

PUBLIC DOCUMENT ROOM.....ARKANSAS TECH UNIVERSITY
RUSSELLVILLE, ARKANSAS 72801

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED JULY 20-24, 1987 (87-20) ROUTINE, ANNOUNCED INSPECTION OF LICENSEE'S CORRECTIVE ACTION PROGRAM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED OCT.19-23, 1987 (87-26) ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S CORRECTIVE ACTION PROGRAM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED AUG.18-20, 1987 (87-29) SPECIAL INSPECTION RELATING TO THE EFFECTS OF HIGH CONTAINMENT TEMPERATURES ON COMPONENTS AND STRUCTURES OF AND 1, UNIT 1 AND TO THE CONTAINMENT TEMPERATURE PROFILES OF UNIT 2. THREE VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED SEPT.14-18, 1987 (87-32) ROUTINE, ANNOUNCED INSPECTION OF NONROUTINE EVENT REPORTING, RECORDS RETENTION PROGRAM, AND FOLLOWUP ON GENERIC LETTERS AND PREVIOUSLY IDENTIFIED ITEMS. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

INSPECTION CONDUCTED NOV.16-20, 1987 (87-33) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S CHEMISTRY/RADIOCHEMISTRY PROGRAM AND WATER CHEMISTRY AND RADIOCHEMISTRY CONFIRMATORY MEASUREMENTS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. THREE PREVIOUSLY IDENTIFIED VIOLATIONS WERE CLOSED.

INSPECTION CONDUCTED OCT.1-31, 1987 (87-36) ROUTINE, UNANNOUNCED INSPECTION INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, AND FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION STATUS - (CONTINUED)

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*****
*                ARKANSAS 2                *
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WERE IDENTIFIED.

INSPECTION CONDUCTED NOV. 1-30, 1987 (87-38) ROUTINE, UNANNOUNCED INSPECTION OF OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, 10 CFR PART 21 REPORTS, AND COLD WEATHER PERPARATIONS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

NONE

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: NOV.30, 1987

INSPECTION REPORT NO: 50-368/87-38

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-008	11/14/87	12/11/87	REACTOR TRIP ON HIGH REACTOR COOLANT SYSTEM PRESSURE DUE TO MAIN TURBINE TRIP CAUSED BY INACCURATE BEARING VIBRATION INDICATION AND INCORRECT TURBINE TRIP SETPOINT.
87-009	11/14/87	12/11/87	SUBCRITICAL REACTOR TRIP WHILE PERFORMING A REACTOR SHUTDOWN DUE TO PROCEDURAL DEFICIENCY.

1. Docket: 50-334 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

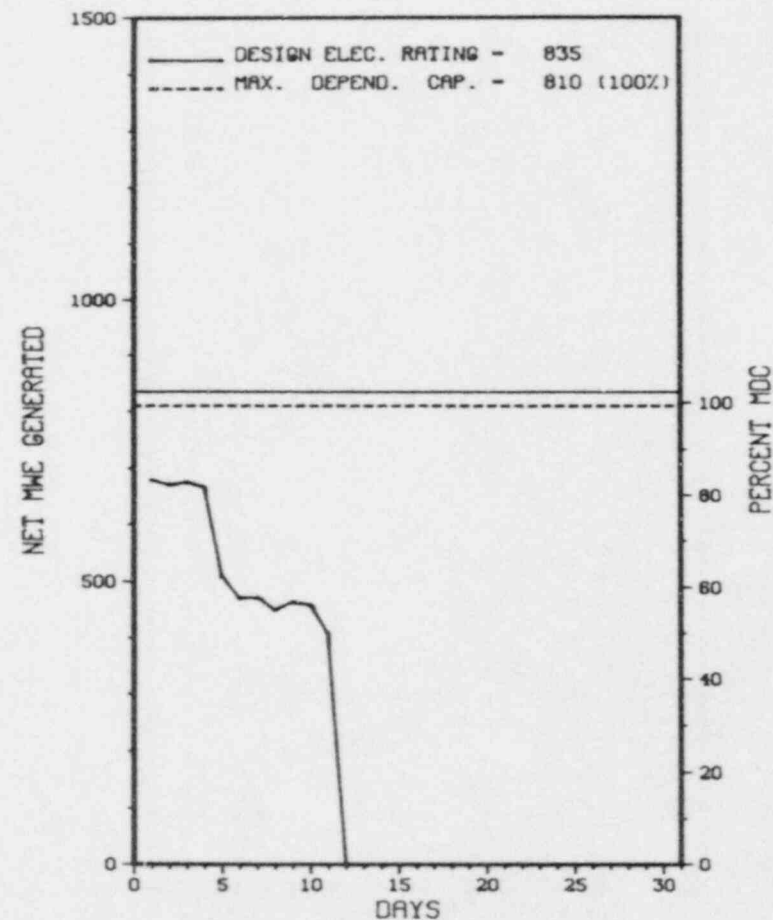
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>102,298.0</u>
13. Hours Reactor Critical	<u>261.7</u>	<u>7,339.4</u>	<u>59,188.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>4,482.7</u>
15. Hrs Generator On-Line	<u>261.6</u>	<u>7,322.9</u>	<u>57,654.3</u>
16. Unit Reserve Shtdwn Hrs	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>
17. Gross Therm Ener (MWH)	<u>469,765</u>	<u>18,392,913</u>	<u>136,917,310</u>
18. Gross Elec Ener (MWH)	<u>153,530</u>	<u>5,992,490</u>	<u>43,865,760</u>
19. Net Elec Ener (MWH)	<u>139,160</u>	<u>5,620,890</u>	<u>40,935,603</u>
20. Unit Service Factor	<u>35.2</u>	<u>83.6</u>	<u>58.8</u>
21. Unit Avail Factor	<u>35.5</u>	<u>83.6</u>	<u>58.8</u>
22. Unit Cap Factor (MDC Net)	<u>23.1</u>	<u>79.2</u>	<u>52.7</u>
23. Unit Cap Factor (DER Net)	<u>22.4</u>	<u>76.8</u>	<u>51.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.4</u>	<u>19.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>261.3</u>	<u>19,041.4</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

27. If Currently Shutdown Estimated Startup Date: 02/15/88

* BEAVER VALLEY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BEAVER VALLEY 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* BEAVER VALLEY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
20	12/01/87	S	0.0	H	5		RC	FUELXX	THE UNIT OPERATED AT A REDUCED OUTPUT DUE TO A POWER COASTDOWN IN PREPARATION FOR THE UNIT'S SIXTH REFUELING OUTAGE.
21	12/11/87	S	482.4	C	1		RC	FUELXX	THE UNIT WAS SHUTDOWN AT 2133 HOURS ON DECEMBER 11TH TO BEGIN THE UNIT'S SIXTH REFUELING OUTAGE.

* SUMMARY *

BEAVER VALLEY 1 ENTERED DECEMBER AT REDUCED POWER IN PREPARATION FOR REFUELING OUTAGE, SUBSEQUENTLY SHUTDOWN FOR 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 *

F A C I L I T Y D A T A

Report Period DEC 1987

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.....50-534
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 DEC 1987

INSPECTION STATUS - (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.

REPORTS FROM LICENSEE

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NO INPUT PROVIDED.			
=====			

1. Docket: 50-412 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 835

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>744.0</u>	<u>1,071.0</u>	<u>1,071.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>965.5</u>	<u>965.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>949.8</u>	<u>949.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,868,106</u>	<u>2,385,637</u>	<u>2,385,637</u>
18. Gross Elec Ener (MWH)	<u>613,300</u>	<u>782,200</u>	<u>782,200</u>
19. Net Elec Ener (MWH)	<u>581,027</u>	<u>738,104</u>	<u>738,104</u>
20. Unit Service Factor	<u>100.0</u>	<u>88.7</u>	<u>58.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>88.7</u>	<u>58.8</u>
22. Unit Cap Factor (MDC Net)	<u>88.2</u>	<u>77.9</u>	<u>52.7</u>
23. Unit Cap Factor (DER Net)	<u>93.4</u>	<u>82.4</u>	<u>51.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>11.3</u>	<u>19.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>121.2</u>	<u>121.2</u>

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

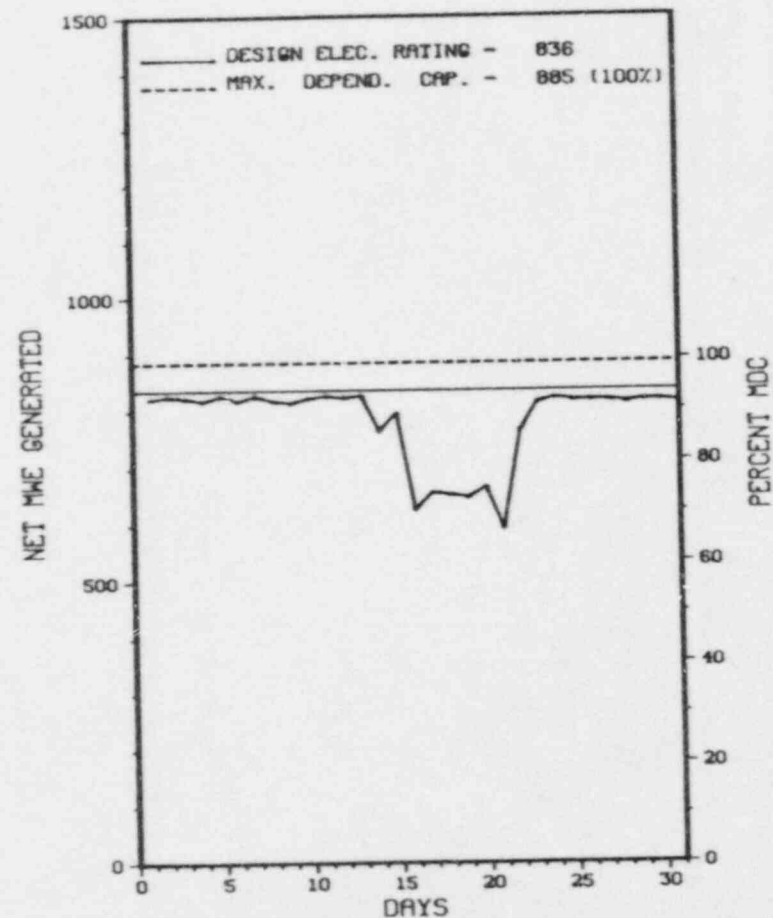
NONE

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

* BEAVER VALLEY 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BEAVER VALLEY 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* BEAVER VALLEY 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
31	12/14/87	F	0.0	A	5		HC	HTEXCH	AT 0350 HOURS, POWER WAS REDUCED TO 45% TO PREVENT THE UNIT FROM TRIPPING ON LOW CONDENSER VACUUM. CONDENSER VACUUM WAS RETURNED TO NORMAL AT 0520 HOURS AND POWER ASCENSION TOWARD 100% WAS INITIATED.
32	12/15/87	S	0.0	B	5		HH	PUMPXX	POWER WAS REDUCED FROM 100% TO APPROXIMATELY 80% TO REMOVE THE 'A' MAIN FEED PUMP FROM SERVICE. THE FEED PUMP WAS REPAIRED AND RETURNED TO SERVICE AT 0608 HOURS ON THE 22ND. POWER WAS THEN ESCALATED TO A NORMAL VALUE OF 100%.
33	12/19/88	S	0.0	B	5		HJ	HTEXCH	AT 0038 HOURS, A POWER REDUCTION FROM 80% TO 60% WAS INITIATED TO SUPPORT PLACING THE UNIT'S MOISTURE SEPARATOR/REHEATERS IN SERVICE. THE MOISTURE SEPARATOR/REHEATERS WERE PLACED IN SERVICE AT 0320 HOURS AND POWER WAS ESCALATED TO 80%.
34	12/21/87	F	0.0	A	5		HH	PUMPXX	AT 0055 HOURS, A POWER DESCENSION TOWARD 45% WAS INITIATED TO REMOVE THE STARTUP FEED PUMP FROM SERVICE WHEN THE 'A' MAIN FEED PUMP SEAL PACKAGE FAILED. THE SEAL WAS REPAIRED AT 0603 HOURS AND POWER WAS ESCALATED TO 80%.

* SUMMARY *

BEAVER VALLEY 2 INCURRED 4 POWER REDUCTIONS IN DECEMBER 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)
	F-Admin		
	G-Oper Error		
	H-Other		

* BEAVER VALLEY 2 *

FACILITY DATA

Report Period DEC 1987

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 NUMBER.....50-412
LICEN-E & 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 DEC 1987

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
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INFO. NOT SUPPLIED BY REGION

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1. Docket: 50-155 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (Mwt): 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>744.0</u>	<u>8,760.0</u>	<u>217,051.0</u>
13. Hours Reactor Critical	<u>638.8</u>	<u>6,214.6</u>	<u>155,833.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>631.9</u>	<u>6,132.2</u>	<u>153,134.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>127,818</u>	<u>1,230,670</u>	<u>28,933,523</u>
18. Gross Elec Ener (MWH)	<u>41,131</u>	<u>396,719</u>	<u>9,171,834</u>
19. Net Elec Ener (MWH)	<u>38,947</u>	<u>374,931</u>	<u>8,673,242</u>
20. Unit Service Factor	<u>84.9</u>	<u>70.0</u>	<u>70.6</u>
21. Unit Avail Factor	<u>84.9</u>	<u>70.0</u>	<u>70.6</u>
22. Unit Cap Factor (MDC Net)	<u>75.9</u>	<u>62.0</u>	<u>59.4*</u>
23. Unit Cap Factor (DER Net)	<u>72.7</u>	<u>58.4</u>	<u>55.5</u>
24. Unit Forced Outage Rate	<u>15.1</u>	<u>5.5</u>	<u>13.6</u>
25. Forced Outage Hours	<u>112.1</u>	<u>359.3</u>	<u>12,106.7</u>

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

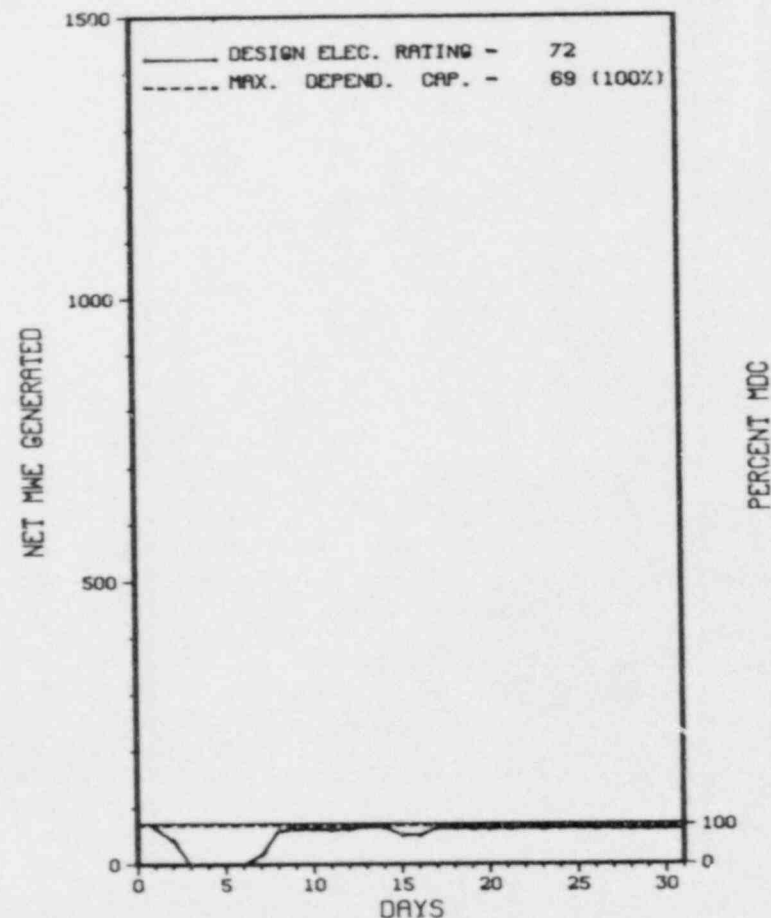
REFUELING - APRIL 9, 1988.

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

* BIG ROCK POINT 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BIG ROCK POINT 1



DECEMBER 1987

* Item calculated with a Weighted Average

PAGE 2-020

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * BIG ROCK POINT 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-16	12/02/87	F	112.1	A	1				THE PLANT WAS REMOVED FROM SERVICE TO INVESTIGATE A STEAM LEAK IN THE CONDENSER AREA. THE TURBINE HIGH PRESSURE HEATER WAS IDENTIFIED AS THE SOURCE OF THE STEAM LEAKAGE. AFTER REPAIRS WERE COMPLETED, THE PLANT WAS RETURNED TO NORMAL POWER LEVELS.
87-17	12/15/87	F	0.0	H	5				A REDUCTION IN POWER WAS MADE DUE TO SEVERE WEATHER. WHILE RETURNING THE PLANT TO NORMAL POWER LEVELS, A CRD ROD BLOCK WAS EXPERIENCED DUE TO CRD ACCUMULATOR PRESSURE SENSING CIRCUITRY PROBLEMS. AFTER REPAIRS WERE COMPLETED, THE PLANT WAS RETURNED TO NORMAL POWER LEVELS.

 * SUMMARY *

BIG ROCK POINT 1 INCURRED 1 FORCED OUTAGE AND 1 POWER REDUCTION IN DECEMBER 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 *

FACILITY DATA

Report Period DEC 1987

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 AUGUST 31 THROUGH NOVEMBER 17, 1987 (87022): SPECIAL SAFETY INSPECTION OF THE LICENSEE'S ACTIVITIES WITH RESPECT TO INSPECTION AND ENFORCEMENT BULLETIN NO. 85-03, "MOTOR-OPERATED VALVE FAILURES DURING PLANT TRANSIENT DUE TO IMPROPER SWITCH SETTINGS," AND THEIR INSERVICE TESTING PROGRAM FOR PUMP AND VALVES AND ITS IMPLEMENTATION (73756). ONE VIOLATION WAS IDENTIFIED FOR FAILURE TO TAKE APPROPRIATE CORRECTIVE ACTION IN RESPONSE TO DEFICIENCIES IDENTIFIED IN THE PUMP AND VALVE INSERVICE TEST PROGRAM.

MEETING ON OCTOBER 21, 1987 (87027): INCLUDED A REVIEW AND DISCUSSION OF THE ENFORCEMENT OPTIONS PERTAINING TO AN APPARENT VIOLATION OF THE LICENSEE'S SECURITY PLAN RELATING TO A VITAL AREA PHYSICAL BARRIER.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

Report Period DEC 1987

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

* BIG ROCK POINT 1 *

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: 01/20/88

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

87-12	112387	121087	REACTOR TRIP CAUSED BY FAILURE OF INTERMEDIATE RANGE NEUTRON MONITORING CHANNEL
=====			

1. Docket: 50-456 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: B. M. PEACOCK (815) 458-2801 EXT. 2480

4. Licensed Thermal Power (MWT): 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: _____

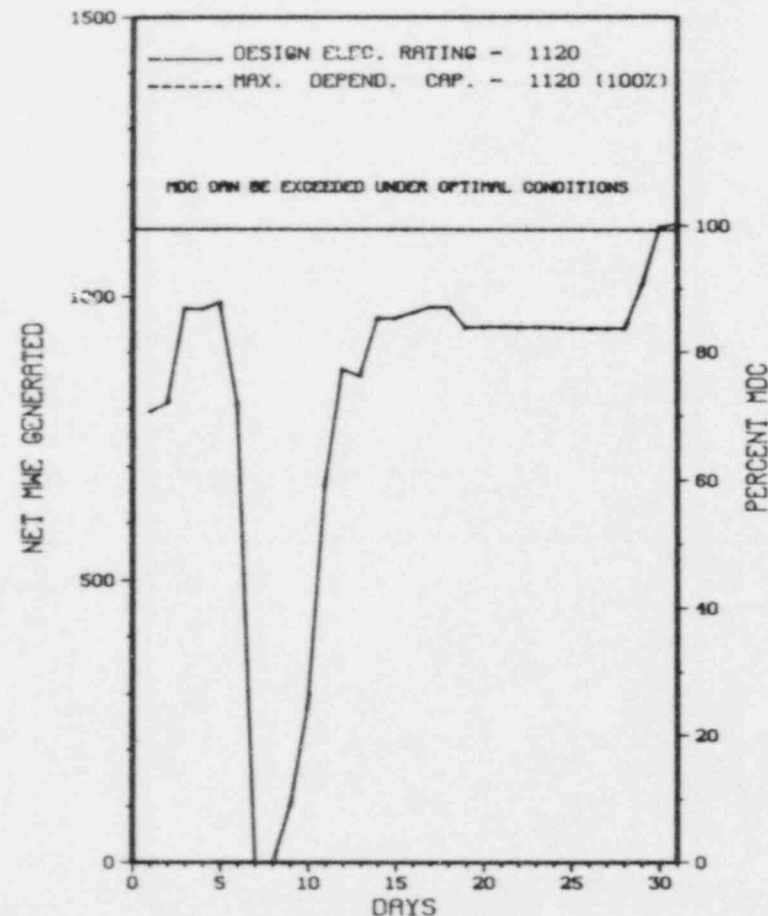
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>4,153.0</u>	<u>4,153.0</u>
13. Hours Reactor Critical	<u>694.2</u>	<u>3,059.7</u>	<u>3,059.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>679.8</u>	<u>2,610.7</u>	<u>2,610.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,895,472</u>	<u>5,015,672</u>	<u>5,015,672</u>
18. Gross Elec Ener (MWH)	<u>646,837</u>	<u>1,604,604</u>	<u>1,604,604</u>
19. Net Elec Ener (MWH)	<u>615,901</u>	<u>1,456,651</u>	<u>1,456,651</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>64.2</u>	<u>872.2</u>	<u>872.2</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>SURVEILLANCE OUTAGE 1/1/88. DURATION 6 WEEKS.</u>		
27. If Currently Shutdown Estimated Startup Date:	<u>N/A</u>		

* BRAIDWOOD 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRAIDWOOD 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* BRAIDWOOD 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
13	12/06/87	F	64.2	H	2	87-060	SD	STR	PLUGGED STRAINERS ON ALL CONDENSATE LAMPS. STRAINERS WERE REMOVED AND CLEANED.

* SUMMARY *

BRAIDWOOD 1 INCURRED 1 FORCED OUTAGE IN DECEMBER TO REMOVE AND CLEAN STRAINERS.

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 DEC 1987

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.....L. 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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 28, 1987 (87040): SPECIAL ANNOUNCED SAFETY INSPECTION OF THE COMBUSTION ENGINEERING AUTOMATED ULTRASONIC EXAMINATION TECHNIQUE (92705). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON OCTOBER 26-30, 1987 (87040; 87038): ROUTINE, UNANNOUNCED INSPECTION OF THE EFFECTIVENESS OF THE LICENSEE'S TRAINING PROGRAM FOR LICENSED OPERATORS (MODULE 41701) AND NON-LICENSED STAFF (MODULE 41400). OF THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON SEPTEMBER 13 THROUGH OCTOBER 24, 1987 (87035;87033): ROUTINE UNANNOUNCED SAFETY INSPECTION OF ACTIVITIES WITH REGARD TO REGIONAL REQUEST; ACTION ON PREVIOUS INSPECTION FINDINGS; LICENSEE EVENT REPORT (LER) REVIEW; AN ALLEGATION; UNIT 2 FUEL RECEIPT, INSPECTION, AND STORAGE; COMPARISON OF AS-BUILT PLANT TO FSAR DESCRIPTION FOLLOWUP ON TMI ACTION TEAMS; OPERATION SAFETY VERIFICATION; RADIOLOGICAL PROTECTION; ENGINEERED SAFETY FEATURE (ESF) SYSTEMS; PHYSICAL SECURITY; MONTHLY MAINTENANCE OBSERVATION AND MODIFICATION INSTALLATIONS; MONTHLY SURVEILLANCE OBSERVATION; UNIT 2 PLANT TOUR; TRAINING EFFECTIVENESS; REPORT REVIEW; AND MEETINGS AND OTHER ACTIVITIES. OF THE 17 AREAS INSPECTION, NO VIOLATIONS WERE IDENTIFIED IN 16. IN THE REMAINING AREA, ONE VIOLATION WAS FOUND REGARDING INADEQUATE SHORT TERM CORRECTIVE ACTIONS

INSPECTION ON NOVEMBER 16 AND 18, 1987 (87044): SPECIAL NUCLEAR MATERIALS CONTROL AND ACCOUNTABILITY. THE LICENSEE'S PROGRAM FOR CONTROLLING AND ACCOUNTING OF SPECIAL NUCLEAR MATERIAL WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS IN THE AREAS EXAMINED

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* BRAIDWOOD 1 *

INSPECTION SUMMARY

DURING THE INSPECTION.

INSPECTION ON NOVEMBER 16-18, 1987 (87043): INCLUDED A VERIFICATION OF THE LICENSEE'S PROGRESS TOWARDS FULL IMPLEMENTATION OF THE SECURITY PROGRAM REQUIRED FOR THE LICENSING OF UNIT 2. LICENSEE'S IMPLEMENTATION OF SECURITY FOR UNIT 2 APPEARS ADEQUATE AT THIS TIME. NO VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

BRAIDWOOD 1 OPERATING IN THE STARTUP TEST PROGRAM UP TO 10% RATED POWER.

LAST IE SITE INSPECTION DATE: 01/28/88

INSPECTION REPORT NO: 88004

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-60	120687	122487	MANUAL REACTOR TRIP DUE TO PLUGGED CONDENSATE PUMP SUCTION STRAINERS
87-62	121187	122387	CONTROL ROOM AND AUXILIARY BUILDING VENTILATION SHIFT TO EMERGENCY MAKEUP MODE DUE TO LOOSE HANDLE ON UNIT 2 SWITCH

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>117,626.0</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>-744</u>	<u>-12,718</u>	<u>53,667,917</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>49.5</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>49.5</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>42.8</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>42.8</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>41.1</u>
25. Forced Outage Hours	<u>744.0</u>	<u>8,760.0</u>	<u>40,698.1</u>

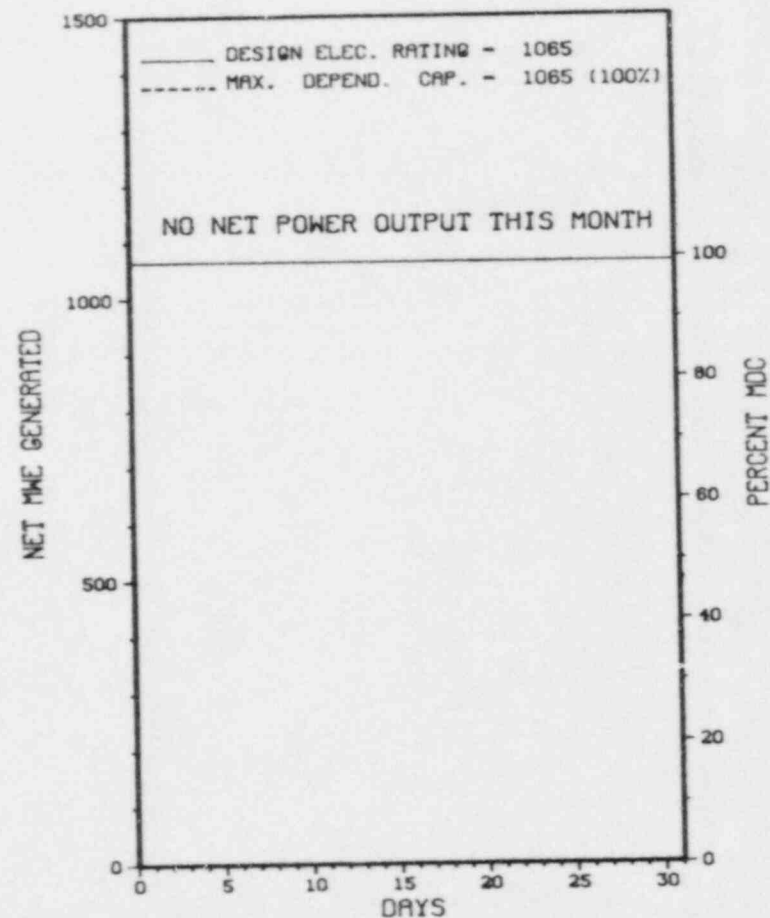
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* BROWNS FERRY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 1



DECEMBER 1987

Report Period DEC 1987

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	744.0	F	4				ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

 * SUMMARY *

 BROWNS FERRY 1 REMAINED ON ADMINISTRATIVE HOLD IN
 DECEMBER 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 1 *

FACILITY DATA

Report Period DEC 1987

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...AUGUST 17, 1973
DATE ELEC ENER 1ST GENER...OCTOBER 15, 1973
DATE COMMERCIAL OPERATE...AUGUST 1, 1974
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.....50-259
LICENSE & DATE ISSUANCE...DPR-33, DECEMBER 20, 1973
PUBLIC DOCUMENT ROOM.....ATHENS PUBLIC LIBRARY
SOUTH AND FORREST
ATHENS. ALABAMA 35611

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 1-30 (87-37): THIS ROUTINE INSPECTION WAS IN THE AREAS OF OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, REPORTABLE OCCURRENCES, ENGINEERING ASSURANCE (EA) ORGANIZATION INVOLVEMENT ON BROWNS FERRY MATTERS, INADVERTENT INITIATION OF FIRE PROTECTION SYSTEM, RESTART REVIEW SUBCOMMITTEE, DIESEL GENERATOR OVERLOAD EVALUATION, TESTS AND EXPERIMENTS PROGRAM, DESIGN BASELINE VERIFICATION PROGRAM, INADEQUATE CORE COOLING INSTRUMENTATION, CONTAINMENT COATINGS, ENVIRONMENTAL QUALIFICATION TESTING, FACILITY MODIFICATIONS, DOCUMENT CONTROL PROGRAM, Q-LIST, AND COMPANION DRAWING DISCREPANCY/CAQR REVIEW. THREE VIOLATIONS WERE IDENTIFIED: FAILURE TO PROPERLY CONTROL MEASURING AND TEST EQUIPMENT; FAILURE TO PROPERLY INDICATE THE OPERATING STATUS OF A COMPONENT IMPORTANT TO SAFETY SUCH THAT INADVERTENT OPERATION IS PREVENTED; AND FAILURE TO HAVE AN ADEQUATE PROCEDURE FOR CONTROLLING CORE DRILLING OPERATIONS THROUGH SECONDARY CONTAINMENT BOUNDARIES.

INSPECTION NOVEMBER 3-5 (87-39): ROUTINE, ANNOUNCED INSPECTION OF THE BROWNS FERRY EMERGENCY PREPAREDNESS EXERCISE, INVOLVING OBSERVATION BY SIX NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 6-20 (87-43): THIS SPECIAL ANNOUNCED INSPECTION WAS CONDUCTED FOR THE BROWNS FERRY UNIT 2 DRYWELL FIRE OF NOVEMBER 2, 1987. THIS INSPECTION WAS NOT INTENDED TO FOCUS ON REGULATORY ENFORCEMENT ISSUES. THE INSPECTION TEAM WAS CHARGED WITH INVESTIGATION OF THE FIRE IN ORDER TO IDENTIFY AND DOCUMENT ALL RELEVANT AND SPECIFIC FACTS ASSOCIATED WITH THE FIRE. SPECIFICALLY THE INSPECTION TEAM ADDRESSED: THE SEQUENCE OF EVENTS WHICH PORTRAYED THE CHRONOLOGICAL ACTIVITIES PRIOR TO AND DURING THE FIRE, AN ASSESSMENT AND EVALUATION OF THE FIRE IMPACT ON PLANT OPERATIONS, THE PROXIMATE ROOT CAUSE OF THE FIRE AND LICENSEE ACTIONS TO COPE WITH THE FIRE. THE LICENSEE CONDUCTED CONCURRENTLY A SERIOUS ACCIDENT INVESTIGATION TEAM INSPECTION TO

INSPECTION SUMMARY

EVALUATE THE ROOT CAUSES, PROGRAM DEFICIENCIES, AND LESSONS LEARNED FROM THE EVENT. DURING THE TVA INSPECTION EFFORT, IT WAS NOTED THAT ONE OF THE POTENTIAL ROOT CAUSES, CONSISTENT WITH TEST RESULTS, WOULD LEAD TO THE FIRE BEING OF A SUSPICIOUS ORIGIN. AT THIS POINT, TVA AND NRC INFORMED THE BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS (ATF) AND THE FEDERAL BUREAU OF INVESTIGATION (FBI) WHO CONDUCTED A JOINT INVESTIGATION INDEPENDENT OF THE FIRE SCENE ARE INCLUDED IN THIS REPORT. THE FBI AND AFT INVESTIGATIONS ARE ONGOING AND WILL BE CONCLUDED SEPARATELY. THE FINAL TVA REPORT WILL BE ISSUED AFTER ATF AND FBI COMPLETE THEIR INVESTIGATIONS. BASED ON TEST RESULTS AND AN INVESTIGATION OF THE FIRE SCENE BY A BUREAU OF ALCOHOL, TOBACCO AND FIREARMS (ATF) REPRESENTATIVE, A PRELIMINARY EVALUATION INDICATES THE FIRE TO BE OF SUSPICIOUS ORIGIN. ADDITIONAL INVESTIGATIONS BY TVA ATF AND FBI ARE ON GOING AT THE TIME OF THIS REPORT TO RESOLVE THE SUSPICIOUS NATURE OF THE FIRE AND TO COMPLETE A TRACING OF THE CABLES INVOLVED TO ATTEMPT TO ESTABLISH THAT THEY HAD BEEN PROPERLY TERMINATED. SHOULD THE SUSPICIOUS NATURE OF THE FIRE BE RESOLVED, THE NEXT MOST PROBABLE CAUSE IS CONSIDERED TO BE IMPROPER ELECTRICAL CONNECTIONS WITHIN SOME TEMPORARY CONNECTIONS. ALSO, EIGHTEEN TECHNICAL CONCERNS WERE IDENTIFIED DURING THE NRC INVESTIGATION AS DELINEATED IN APPENDIX A. FOLLOWUP INSPECTIONS WILL BE CONDUCTED BY OFFICE OF SPECIAL PROJECTS (OSP) AS FURTHER DETAILS BECOME AVAILABLE.

INSPECTION NOVEMBER 16-20 (87-44): THIS ROUTINE, UNANNOUNCED INSPECTION EXAMINED THE FOLLOWING AREAS: TESTING AND MAINTENANCE; LOCK, KEYS AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AREA; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL, PACKAGES, AND VEHICLES. ADDITIONALLY, AS PART OF THIS INSPECTION THE INSPECTOR REVIEWED THE LICENSEE'S PROPOSED RELOCATION OF THE TEMPORARY PROTECTED AREA FENCE. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

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: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-259/87-44 +

Report Period DEC 1987

REPORTS FROM LICENSEE

* BROWNS FERRY 1 *

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NUMBER   DATE OF   DATE OF   SUBJECT
        EVENT   REPORT
-----
87-029   11/05/87   12/04/87   PERSONNEL ERROR IN WRITING EQUIP TAG-OUT CLEARANCE RESULTS IN ACTUATIONS OF ENGINEERED SAFETY
        11/29/87   12/29/87   FEATURES
87-030   11/29/87   12/29/87   FAULTY RELAY COIL CAUSES AUTO START OF CONTROL ROOM EMERGENCY VENTILATION SYSTEM
87-031   12/04/87   12/31/87   PROCEDURAL INADEQUACY RESULTS IN START OF CONTROL ROOM EMERGENCY VENTILATION SYSTEM
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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: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>112,537.0</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>-2,007</u>	<u>-34,470</u>	<u>49,183.833</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>48.3</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>48.3</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>41.2</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>41.0</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>40.3</u>
25. Forced Outage Hours	<u>744.0</u>	<u>8,760.0</u>	<u>36,753.4</u>

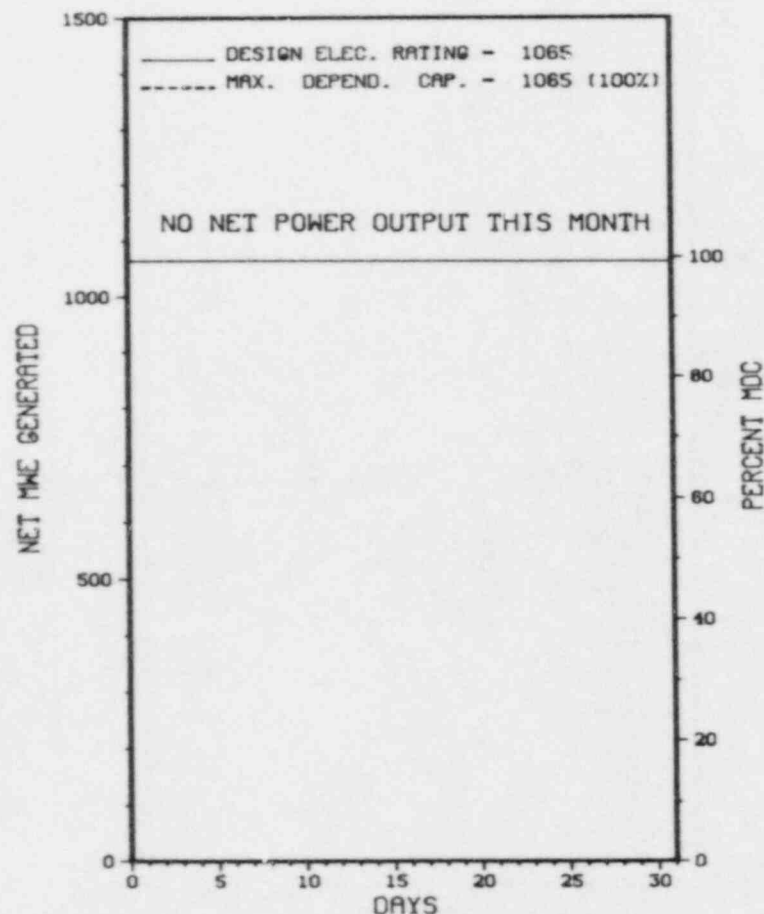
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

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

 * BROWNS FERRY 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 2



DECEMBER 1987

Report Period DEC 1987

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	744.0	F	4				ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

* SUMMARY *

BROWNS FERRY 2 REMAINED ON ADMINISTRATIVE HOLD IN DECEMBER
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 DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 1-30 (87-37): THIS ROUTINE INSPECTION WAS IN THE AREAS OF OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, REPORTABLE OCCURRENCES, ENGINEERING ASSURANCE (EA) ORGANIZATION INVOLVEMENT ON BROWNS FERRY MATTERS, INADVERTENT INITIATION OF FIRE PROTECTION SYSTEM, RESTART REVIEW SUBCOMMITTEE, DIESEL GENERATOR OVERLOAD EVALUATION, TESTS AND EXPERIMENTS PROGRAM, DESIGN BASELINE VERIFICATION PROGRAM, INADEQUATE CORE COOLING INSTRUMENTATION, CONTAINMENT COATINGS, ENVIRONMENTAL QUALIFICATION TESTING, FACILITY MODIFICATIONS, DOCUMENT CONTROL PROGRAM, Q-LIST, AND COMPANION DRAWING DISCREPANCY/CAQR REVIEW. THREE VIOLATIONS WERE IDENTIFIED: FAILURE TO PROPERLY CONTROL MEASURING AND TEST EQUIPMENT; FAILURE TO PROPERLY INDICATE THE OPERATING STATUS OF A COMPONENT IMPORTANT TO SAFETY SUCH THAT INADVERTENT OPERATION IS PREVENTED; AND FAILURE TO HAVE AN ADEQUATE PROCEDURE FOR CONTROLLING CORE DRILLING OPERATIONS THROUGH SECONDARY CONTAINMENT BOUNDARIES.

INSPECTION NOVEMBER 3-5 (87-39): ROUTINE, ANNOUNCED INSPECTION OF THE BROWNS FERRY EMERGENCY PREPAREDNESS EXERCISE, INVOLVING OBSERVATION BY SIX NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 6-20 (87-43): THIS SPECIAL ANNOUNCED INSPECTION WAS CONDUCTED FOR THE BROWNS FERRY UNIT 2 DRYWELL FIRE OF NOVEMBER 2, 1987. THIS INSPECTION WAS NOT INTENDED TO FOCUS ON REGULATORY ENFORCEMENT ISSUES. THE INSPECTION TEAM WAS CHARGED WITH INVESTIGATION OF THE FIRE IN ORDER TO IDENTIFY AND DOCUMENT ALL RELEVANT AND SPECIFIC FACTS ASSOCIATED WITH THE FIRE. SPECIFICALLY THE INSPECTION TEAM ADDRESSED: THE SEQUENCE OF EVENTS WHICH PORTRAYED THE CHRONOLOGICAL ACTIVITIES PRIOR TO AND DURING THE FIRE, AN ASSESSMENT AND EVALUATION OF THE FIRE IMPACT ON PLANT OPERATIONS, THE PROXIMATE ROOT CAUSE OF THE FIRE AND LICENSEE ACTIONS TO COPE WITH THE FIRE. THE LICENSEE CONDUCTED CONCURRENTLY A SERIOUS ACCIDENT INVESTIGATION TEAM INSPECTION TO

INSPECTION SUMMARY

EVALUATE THE ROOT CAUSES, PROGRAM DEFICIENCIES, AND LESSONS LEARNED FROM THE EVENT. DURING THE TVA INSPECTION EFFORT, IT WAS NOTED THAT ONE OF THE POTENTIAL ROOT CAUSES, CONSISTENT WITH TEST RESULTS, WOULD LEAD TO THE FIRE BEING OF A SUSPICIOUS ORIGIN. AT THIS POINT, TVA AND NRC INFORMED THE BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS (ATF) AND THE FEDERAL BUREAU OF INVESTIGATION (FBI) WHO CONDUCTED A JOINT INVESTIGATION INDEPENDENT OF THE FIRE SCENE ARE INCLUDED IN THIS REPORT. THE FBI AND ATF INVESTIGATIONS ARE ONGOING AND WILL BE CONCLUDED SEPARATELY. THE FINAL TVA REPORT WILL BE ISSUED AFTER ATF AND FBI COMPLETE THEIR INVESTIGATIONS. BASED ON TEST RESULTS AND AN INVESTIGATION OF THE FIRE SCENE BY A BUREAU OF ALCOHOL, TOBACCO AND FIREARMS (ATF) REPRESENTATIVE, A PRELIMINARY EVALUATION INDICATES THE FIRE TO BE OF SUSPICIOUS ORIGIN. ADDITIONAL INVESTIGATIONS BY TVA ATF AND FBI ARE ON GOING AT THE TIME OF THIS REPORT TO RESOLVE THE SUSPICIOUS NATURE OF THE FIRE AND TO COMPLETE A TRACING OF THE CABLES INVOLVED TO ATTEMPT TO ESTABLISH THAT THEY HAD BEEN PROPERLY TERMINATED. SHOULD THE SUSPICIOUS NATURE OF THE FIRE BE RESOLVED, THE NEXT MOST PROBABLE CAUSE IS CONSIDERED TO BE IMPROPER ELECTRICAL CONNECTIONS WITHIN SOME TEMPORARY CONNECTIONS. ALSO, EIGHTEEN TECHNICAL CONCERNS WERE IDENTIFIED DURING THE NRC INVESTIGATION AS DELINEATED IN APPENDIX A. FOLLOWUP INSPECTIONS WILL BE CONDUCTED BY OFFICE OF SPECIAL PROJECTS (OSP) AS FURTHER DETAILS BECOME AVAILABLE.

INSPECTION NOVEMBER 16-20 (87-44): THIS ROUTINE, UNANNOUNCED INSPECTION EXAMINED THE FOLLOWING AREAS: TESTING AND MAINTENANCE; LOCK, KEYS AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AREA; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL, PACKAGES, AND VEHICLES. ADDITIONALLY, AS PART OF THIS INSPECTION THE INSPECTOR REVIEWED THE LICENSEE'S PROPOSED RELOCATION OF THE TEMPORARY PROTECTED AREA FENCE. 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: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-260/87-44 +

Report Period DEC 1987

REPORTS FROM LICENSEE

* BROWNS FERRY 2 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
87-011    11/01/87    11/25/87    FAILURE OF 2B REACTOR PROTECTION SYSTEM MOTOR GENERATOR SET MOTOR INITIATES ENGINEERED SAFETY
          FEATURES
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1. Docket: 50-296 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>94,992.0</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>-4,397</u>	<u>-50,980</u>	<u>42,042,068</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>46.5</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>46.5</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>41.6</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>41.6</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>41.0</u>
25. Forced Outage Hours	<u>744.0</u>	<u>8,760.0</u>	<u>30,737.4</u>

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

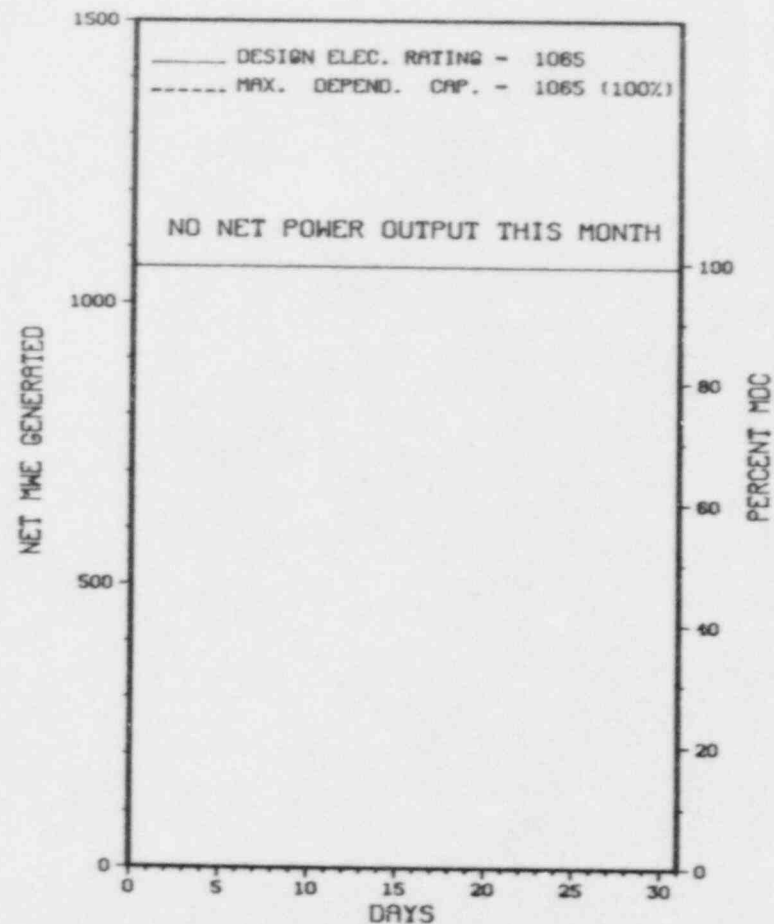
NONE

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

* BROWNS FERRY 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* BROWNS FERRY 3 *

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	744.0	F	4				
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ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

* SUMMARY *

BROWNS FERRY 3 REMAINED ON ADMINISTRATIVE HOLD IN DECEMBER 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 3 *

FACILITY DATA

Report Period DEC 1987

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...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 & 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.....50-296
LICENSE & DATE ISSUANCE...DPR-68, AUGUST 18, 1976
PUBLIC DOCUMENT ROOM.....ATHENS PUBLIC LIBRARY
SOUTH AND FORREST
ATHENS, ALABAMA 35611

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 1-30 (87-37): THIS ROUTINE INSPECTION WAS IN THE AREAS OF OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, REPORTABLE OCCURRENCES, ENGINEERING ASSURANCE (EA) ORGANIZATION INVOLVEMENT ON BROWNS FERRY MATTERS, INADVERTENT INITIATION OF FIRE PROTECTION SYSTEM, RESTART REVIEW SUBCOMMITTEE, DIESEL GENERATOR OVERLOAD EVALUATION, TESTS AND EXPERIMENTS PROGRAM, DESIGN BASELINE VERIFICATION PROGRAM, INADEQUATE CORE COOLING INSTRUMENTATION, CONTAINMENT COATINGS, ENVIRONMENTAL QUALIFICATION TESTING, FACILITY MODIFICATIONS, DOCUMENT CONTROL PROGRAM, Q-LIST, AND COMPANION DRAWING DISCREPANCY/CAQR REVIEW. THREE VIOLATIONS WERE IDENTIFIED: FAILURE TO PROPERLY CONTROL MEASURING AND TEST EQUIPMENT; FAILURE TO PROPERLY INDICATE THE OPERATING STATUS OF A COMPONENT IMPORTANT TO SAFETY SUCH THAT INADVERTENT OPERATION IS PREVENTED; AND FAILURE TO HAVE AN ADEQUATE PROCEDURE FOR CONTROLLING CORE DRILLING OPERATIONS THROUGH SECONDARY CONTAINMENT BOUNDARIES.

INSPECTION NOVEMBER 3-5 (87-39): ROUTINE, ANNOUNCED INSPECTION OF THE BROWNS FERRY EMERGENCY PREPAREDNESS EXERCISE, INVOLVING OBSERVATION BY SIX NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 6-20 (87-43): THIS SPECIAL ANNOUNCED INSPECTION WAS CONDUCTED FOR THE BROWNS FERRY UNIT 2 DRYWELL FIRE OF NOVEMBER 2, 1987. THIS INSPECTION WAS NOT INTENDED TO FOCUS ON REGULATORY ENFORCEMENT ISSUES. THE INSPECTION TEAM WAS CHARGED WITH INVESTIGATION OF THE FIRE IN ORDER TO IDENTIFY AND DOCUMENT ALL RELEVANT AND SPECIFIC FACTS ASSOCIATED WITH THE FIRE. SPECIFICALLY THE INSPECTION TEAM ADDRESSED: THE SEQUENCE OF EVENTS WHICH PORTRAYED THE CHRONOLOGICAL ACTIVITIES PRIOR TO AND DURING THE FIRE, AN ASSESSMENT AND EVALUATION OF THE FIRE IMPACT ON PLANT OPERATIONS, THE PROXIMATE ROOT CAUSE OF THE FIRE AND LICENSEE ACTIONS TO COPE WITH THE FIRE. THE LICENSEE CONDUCTED CONCURRENTLY A SERIOUS ACCIDENT INVESTIGATION TEAM INSPECTION TO

INSPECTION SUMMARY

EVALUATE THE ROOT CAUSES, PROGRAM DEFICIENCIES, AND LESSONS LEARNED FROM THE EVENT. DURING THE TVA INSPECTION EFFORT, IT WAS NOTED THAT ONE OF THE POTENTIAL ROOT CAUSES, CONSISTENT WITH TEST RESULTS, WOULD LEAD TO THE FIRE BEING OF A SUSPICIOUS ORIGIN. AT THIS POINT, TVA AND NRC INFORMED THE BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS (ATF) AND THE FEDERAL BUREAU OF INVESTIGATION (FBI) WHO CONDUCTED A JOINT INVESTIGATION INDEPENDENT OF THE FIRE SCENE ARE INCLUDED IN THIS REPORT. THE FBI AND ATF INVESTIGATIONS ARE ONGOING AND WILL BE CONCLUDED SEPARATELY. THE FINAL TVA REPORT WILL BE ISSUED AFTER ATF AND FBI COMPLETE THEIR INVESTIGATIONS. BASED ON TEST RESULTS AND AN INVESTIGATION OF THE FIRE SCENE BY A BUREAU OF ALCOHOL, TOBACCO AND FIREARMS (ATF) REPRESENTATIVE, A PRELIMINARY EVALUATION INDICATES THE FIRE TO BE OF SUSPICIOUS ORIGIN. ADDITIONAL INVESTIGATIONS BY TVA ATF AND FBI ARE ON GOING AT THE TIME OF THIS REPORT TO RESOLVE THE SUSPICIOUS NATURE OF THE FIRE AND TO COMPLETE A TRACING OF THE CABLES INVOLVED TO ATTEMPT TO ESTABLISH THAT THEY HAD BEEN PROPERLY TERMINATED. SHOULD THE SUSPICIOUS NATURE OF THE FIRE BE RESOLVED, THE NEXT MOST PROBABLE CAUSE IS CONSIDERED TO BE IMPROPER ELECTRICAL CONNECTIONS WITHIN SOME TEMPORARY CONNECTIONS. ALSO, EIGHTEEN TECHNICAL CONCERNS WERE IDENTIFIED DURING THE NRC INVESTIGATION AS DELINEATED IN APPENDIX A. FOLLOWUP INSPECTIONS WILL BE CONDUCTED BY OFFICE OF SPECIAL PROJECTS (OSP) AS FURTHER DETAILS BECOME AVAILABLE.

INSPECTION NOVEMBER 16-20 (87-44): THIS ROUTINE, UNANNOUNCED INSPECTION EXAMINED THE FOLLOWING AREAS: TESTING AND MAINTENANCE; LOCK, KEYS AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AREA; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL, PACKAGES, AND VEHICLES. ADDITIONALLY, AS PART OF THIS INSPECTION THE INSPECTOR REVIEWED THE LICENSEE'S PROPOSED RELOCATION OF THE TEMPORARY PROTECTED AREA FENCE. 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: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-296/87-44 +

Report Period DEC 1987

REPORTS FROM LICENSEE

* BROHNS FERRY 3 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
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87-006    11/24/87    12/23/87    UNPLANNED ESF ACTUATION DUE TO RELAY FAILURE AND PERSONNEL ERROR DURING CORRECTIVE MAINTENANCE
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1. Docket: 50-325 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: FRANCES HARRISON (919) 457-2756

4. Licensed Thermal Power (MHT): 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>744.0</u>	<u>8,760.0</u>	<u>94,585.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>5,788.7</u>	<u>60,937.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,647.1</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,652.3</u>	<u>57,860.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,767,758</u>	<u>12,937,408</u>	<u>121,979,536</u>
18. Gross Elec Ener (MWH)	<u>583,705</u>	<u>4,191,698</u>	<u>40,109,547</u>
19. Net Elec Ener (MWH)	<u>567,438</u>	<u>4,046,631</u>	<u>38,579,132</u>
20. Unit Service Factor	<u>100.0</u>	<u>64.5</u>	<u>61.2</u>
21. Unit Avail Factor	<u>100.0</u>	<u>64.5</u>	<u>61.2</u>
22. Unit Cap Factor (MDC Net)	<u>96.5</u>	<u>58.5</u>	<u>51.6</u>
23. Unit Cap Factor (DER Net)	<u>92.9</u>	<u>56.3</u>	<u>49.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.9</u>	<u>15.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>232.2</u>	<u>10,619.7</u>

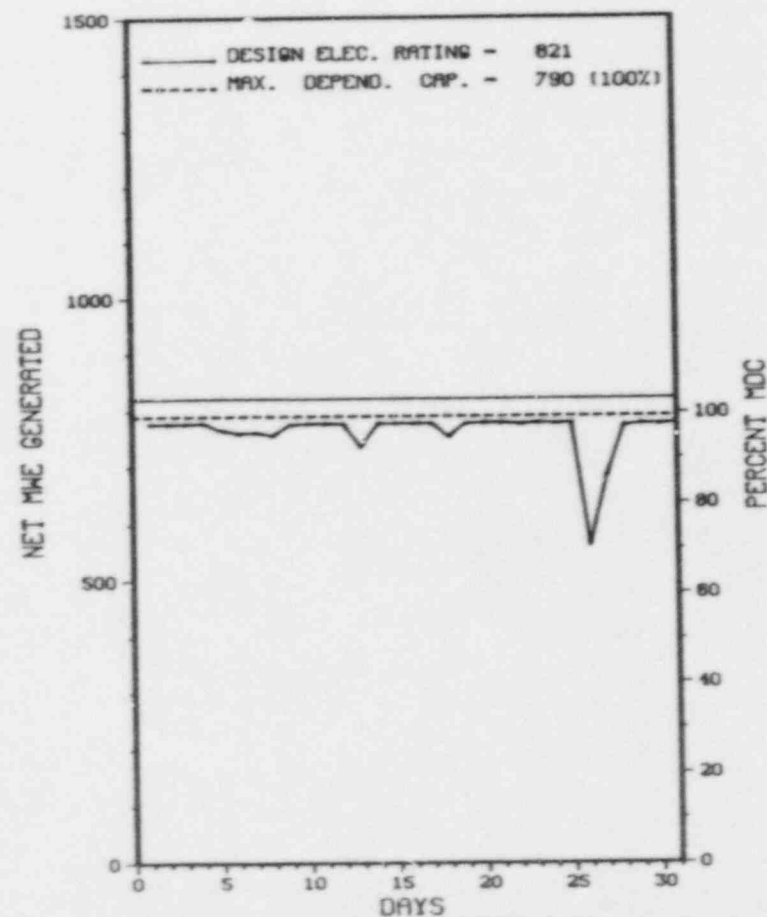
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
MAINTENANCE - 1/20/88 - 4 WEEKS DURATION

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

X BRUNSWICK 1 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRUNSWICK 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

X BRUNSWICK 1 X

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
87-051	12/06/87	S	0.0	B	5			ROD IMPROVEMENT AND ROUTINE VALVE TESTING
87-052	12/07/87	F	0.0	A	5			REDUCED POWER DUE TO PROBLEM WITH PROCESS COMPUTER
87-053	12/13/87	S	0.0	B	5			ROD D IMPROVEMENT AND ROUTINE VALVE TESTING
87-056	12/26/87	F	0.0	A	5			STATOR COOLING REPAIR

* SUMMARY *

BRUNSWICK 1 INCURRED 4 POWER REDUCTIONS IN DECEMBER 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)

* BRUNSWICK 1 *

FACILITY DATA

Report Period: DEC 1987

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...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 & CONTRACTOR INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION SEPTEMBER 14-28 - OCTOBER 2 (87-32): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF QUALITY ASSURANCE EFFECTIVENESS. FOUR VIOLATIONS WERE IDENTIFIED: FAILURE TO TAKE PROMPT AND ADEQUATE CORRECTIVE ACTION TO RESOLVE ENGINEERING WORK REQUESTS (EWRs), FAILURE TO DOCUMENT THE RESULTS OF REVIEWS OF EWRs, FAILURE TO PROPERLY MAINTAIN THE CORE SPRAY SYSTEM IN ACCORDANCE WITH USAS REQUIREMENTS, AND FAILURE TO CONDUCT ADEQUATE AUDITS.

INSPECTION NOVEMBER 2-6 (87-38): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREA OF INSERVICE TESTING OF PUMPS AND VALVES. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PROMPTLY CORRECT TECHNICAL SPECIFICATION REQUIREMENT REGARDING GAGES.

INSPECTION NOVEMBER 1-30 (87-39): THIS ROUTINE SAFETY INSPECTION INVOLVED THE AREAS OF MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, COMPLIANCE BULLETIN 87-02, UNIT 2 REACTOR BUILDING TOUR WITH AUXILIARY OPERATOR, FOLLOWUP ON INSPECTOR IDENTIFIED UNRESOLVED ITEM, AND SETPOINTS FOR HPCI AND RCIC HIGH STEAMLINE FLOW. ONE VIOLATION WAS IDENTIFIED - FAILURE TO CALIBRATE JET PUMP INSTRUMENT IN ACCORDANCE WITH PROCEDURE.

INSPECTION NOVEMBER 16-18 (87-40): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED THE OBSERVATION AND EVALUATION OF THE LICENSEE'S ANNUAL EMERGENCY PREPAREDNESS EXERCISE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* BRUNSWICK 1 *

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, ACTIVITIES AFFECTING QUALITY WERE NOT ACCOMPLISHED IN ACCORDANCE WITH DRAWINGS IN THAT AN ALLEN BOLT WAS PLACED IN THE PRESET PIN HOLE OF HANGER 1-E11-98VH555, PREVENTING HANGER MOVEMENT 1/4 INCH AS REQUIRED BY DRAWING BP-15555-1, REVISION 1.
(8703 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS. MAINTENANCE OUTAGE PLANNED FOR JAN. 22, 1988 FOR 4 WEEKS. +

LAST IE SITE INSPECTION DATE: NOVEMBER 16-18, 1987 +

INSPECTION REPORT NO: 50-325/87-40 +

REPORTS FROM LICENSEE

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE.

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1. Docket: 50-324 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>106,609.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>8,328.4</u>	<u>67,073.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>8,205.8</u>	<u>63,246.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,297,778</u>	<u>18,327,127</u>	<u>126,587,479</u>
18. Gross Elec Ener (MWH)	<u>409,695</u>	<u>5,903,345</u>	<u>41,741,532</u>
19. Net Elec Ener (MWH)	<u>390,684</u>	<u>5,694,104</u>	<u>40,042,829</u>
20. Unit Service Factor	<u>100.0</u>	<u>93.7</u>	<u>59.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>93.7</u>	<u>59.3</u>
22. Unit Cap Factor (MDC Net)	<u>66.5</u>	<u>82.3</u>	<u>47.5</u>
23. Unit Cap Factor (DER Net)	<u>64.0</u>	<u>79.2</u>	<u>45.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>5.2</u>	<u>14.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>453.6</u>	<u>11,459.8</u>

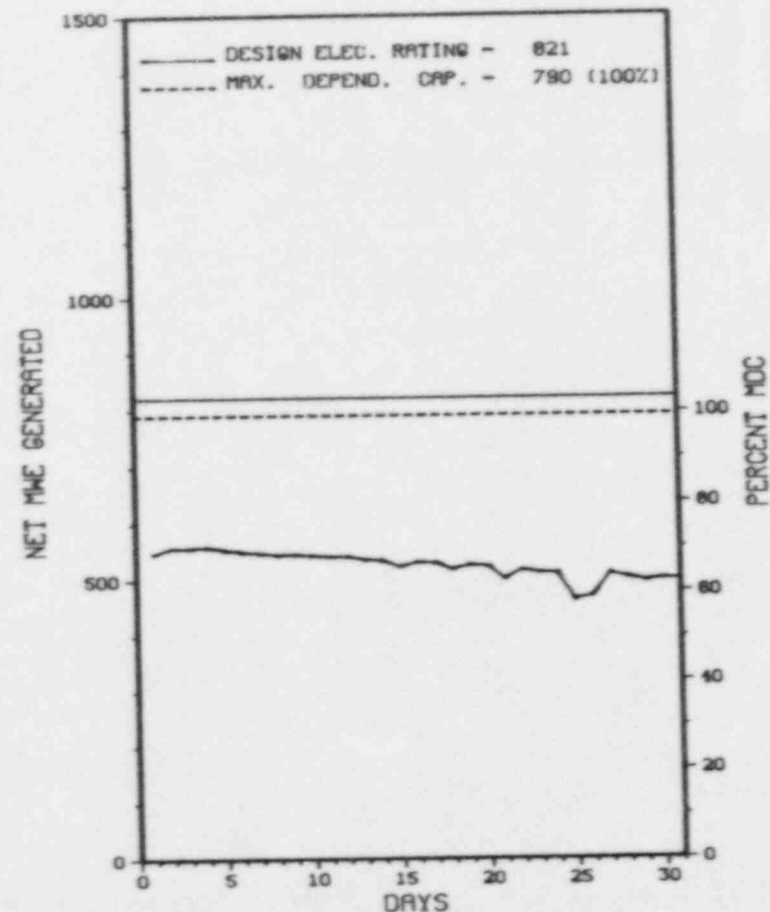
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING/MAINTENANCE - JANUARY 2, 1988 - 16 WEEK DURATION

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

 * BRUNSWICK 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRUNSWICK 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* BRUNSWICK 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-094	12/18/87	F	0.0	A	5				2B CIRC WATER PUMP TRIPPED
87-093	12/24/87	S	0.0	H	5				LOAD FOLLOWING

* SUMMARY *

BRUNSWICK 2 INCURRED 2 POWER REDUCTIONS IN DECEMBER 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)

 * BRUNSWICK 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION SEPTEMBER 14-28 - OCTOBER 2 (87-31): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF QUALITY ASSURANCE EFFECTIVENESS. FOUR VIOLATIONS WERE IDENTIFIED: FAILURE TO TAKE PROMPT AND ADEQUATE CORRECTIVE ACTION TO RESOLVE ENGINEERING WORK REQUESTS (EWRs), FAILURE TO DOCUMENT THE RESULTS OF REVIEWS OF EWRs, FAILURE TO PROPERLY MAINTAIN THE CORE SPRAY SYSTEM IN ACCORDANCE WITH USAS REQUIREMENTS, AND FAILURE TO CONDUCT ADEQUATE AUDITS.

INSPECTION NOVEMBER 2-6 (87-39): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREA OF INSERVICE TESTING OF PUMPS AND VALVES. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PROMPTLY CORRECT TECHNICAL SPECIFICATION REQUIREMENT REGARDING GAGES.

INSPECTION NOVEMBER 1-30 (87-40): THIS ROUTINE SAFETY INSPECTION INVOLVED THE AREAS OF MAINTENANCE OBSERVATION SURVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, COMPLIANCE BULLETIN 87-02, UNIT 2 REACTOR BUILDING TOUR WITH AUXILIARY OPERATOR, FOLLOWUP ON INSPECTOR IDENTIFIED UNRESOLVED ITEM, AND SETPOINTS FOR MPC1 AND RC1C HIGH STEAMLINE FLOW. ONE VIOLATION WAS IDENTIFIED - FAILURE TO CALIBRATE JET PUMP INSTRUMENT IN ACCORDANCE WITH PROCEDURE.

INSPECTION NOVEMBER 16-18 (87-41): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED THE OBSERVATION AND EVALUATION OF THE LICENSEE'S ANNUAL EMERGENCY PREPAREDNESS EXERCISE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period DEC 1987

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

* BRUNSWICK 2 *

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYS:EMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS. REFUELING OUTAGE PLANNED FOR JAN. 2, 1988 FOR 16 WEEKS. +

LAST IE SITE INSPECTION DATE: NOVEMBER 16-18, 1987 +

INSPECTION REPORT NO: 50-324/87-41 +

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
87-012	12/07/87	01/06/88	UNPLANNED DIVISION 1 PRIMARY CONTAINMENT GROUP 5 ISOLATION OF RCIC SYSTEM WHILE INSTALLING ELEC JUMPER DUE TO PERSONNEL ERROR

=====

1. Docket: 50-454 **OPERATING STATUS**
 2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0
 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): 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): 1097
 11. Reasons for Restrictions, If Any: _____

STEAM GENERATOR SPLIT FLOW

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>20,089.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,210.3</u>	<u>15,312.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>37.8</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,007.3</u>	<u>14,961.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,307,217</u>	<u>17,050,017</u>	<u>43,595,851</u>
18. Gross Elec Ener (MWH)	<u>767,956</u>	<u>5,701,545</u>	<u>14,625,777</u>
19. Net Elec Ener (MWH)	<u>726,878</u>	<u>5,330,576</u>	<u>13,739,477</u>
20. Unit Service Factor	<u>100.0</u>	<u>68.6</u>	<u>74.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>68.6</u>	<u>74.5</u>
22. Unit Cap Factor (MDC Net)	<u>87.2</u>	<u>54.1</u>	<u>61.1</u>
23. Unit Cap Factor (DER Net)	<u>87.2</u>	<u>54.3</u>	<u>61.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.2</u>	<u>5.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>135.1</u>	<u>912.1</u>

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

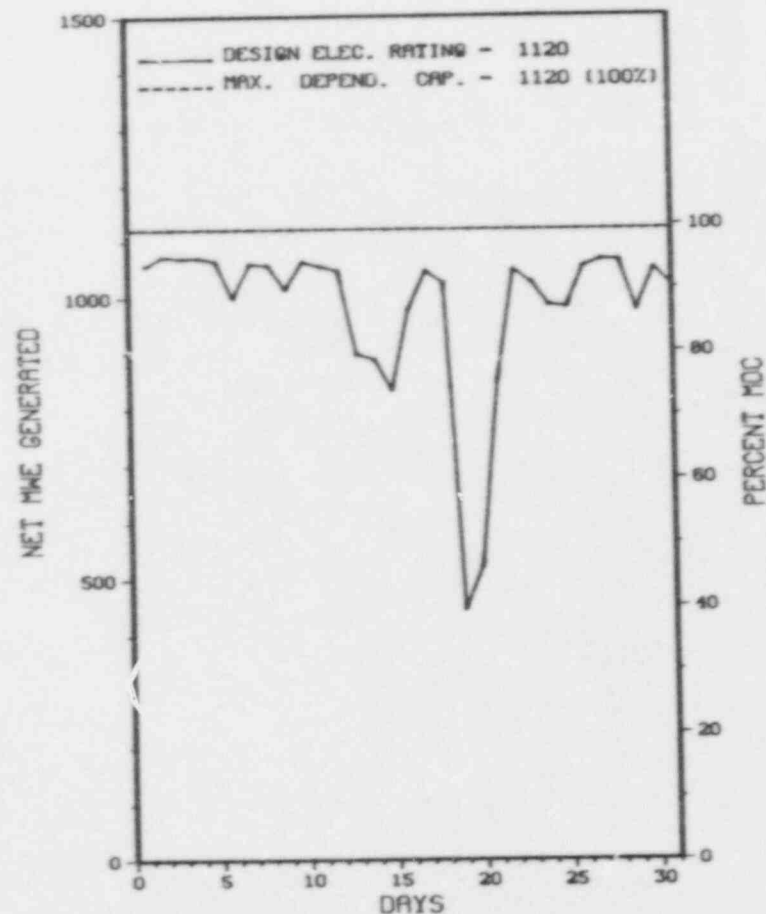
NONE

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

 * BYRON 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * BYRON 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
9	12/18/87	S	0.0	A	5				RAMPED DOWN TO ADD OIL TO RCP.

 * SUMMARY *

 BYRON 1 INCURRED 1 POWER REDUCTION IN DECEMBER WHEN IT RAMPED DOWN TO ADD OIL TO RCP.

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 DEC 1987

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 ENER 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
DOCKET 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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION FROM OCTOBER 31 THROUGH NOVEMBER 30, 1987 (87041; 87038): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS AND A HEADQUARTERS-BASED INSPECTOR OF THE LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; LERS; GENERIC LETTERS; OPERATIONS SUMMARY; TRAINING; SURVEILLANCE; MAINTENANCE; OPERATIONAL SAFETY; PART 21 REPORTS; EVENT FOLLOWUP; A MEETING WITH LOCAL PUBLIC OFFICIALS; ALLEGATIONS; AND MANAGEMENT CHANGES. OF THE 11 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN 9 AREAS; 2 VIOLATIONS WERE IDENTIFIED IN THE REMAINING AREAS (FAILURE TO PERFORM POST-MAINTENANCE TESTING; FAILURE TO PROPERLY TRAIN AND ESTABLISH A TRAINING PROGRAM FOR TECHNICAL STAFF ENGINEERS). ONE ADDITIONAL VIOLATION WAS IDENTIFIED (FAILURE TO MAINTAIN A CONTINUOUS FIRE WATCH IN A REQUIRED AREA); HOWEVER, IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.G.1, A NOTICE OF VIOLATION IS NOT ISSUED.

INSPECTION FROM OCTOBER 2 THROUGH 30, 1987 (87039; 87036): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTOR AND REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, OPERATIONS SUMMARY, DESIGN CHANGES AND MODIFICATIONS, TRAINING, SURVEILLANCE, MAINTENANCE, OPERATIONAL SAFETY AND ESF WALKDOWN, DEVIATION REPORTS, EVENT FOLLOWUP, AND MANAGEMENT MEETINGS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period DEC 1987

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

* BYRON 1 *

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT 1 OPERATED AT POWER UP TO 98% ON LINE THE ENTIRE MONTH

LAST IE SITE INSPECTION DATE: 02/19/88

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

=====			

1. Docket: 50-455 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: D. J. SPITZER (815)234-5441 X2023

4. Licensed Thermal Power (MWh): 3411

5. Nameplate Rating (Gross MWe): 1175

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): 1055

11. Reasons for Restrictions, If Any:

STEAM GENERATOR SPLIT FLOW.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>3,193.0</u>	<u>3,193.0</u>
13. Hours Reactor Critical	<u>250.1</u>	<u>2,327.2</u>	<u>2,327.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>237.4</u>	<u>2,280.4</u>	<u>2,280.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>347,977</u>	<u>6,472,163</u>	<u>6,472,163</u>
18. Gross Elec Ener (MWH)	<u>108,548</u>	<u>2,104,311</u>	<u>2,104,311</u>
19. Net Elec Ener (MWH)	<u>91,060</u>	<u>1,970,901</u>	<u>1,970,901</u>
20. Unit Service Factor	<u>31.9</u>	<u>71.4</u>	<u>71.4</u>
21. Unit Avail Factor	<u>31.9</u>	<u>71.4</u>	<u>71.4</u>
22. Unit Cap Factor (MDC Net)	<u>10.9</u>	<u>55.1</u>	<u>55.1</u>
23. Unit Cap Factor (DER Net)	<u>10.9</u>	<u>55.1</u>	<u>55.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>11.2</u>	<u>11.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>288.0</u>	<u>288.0</u>

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

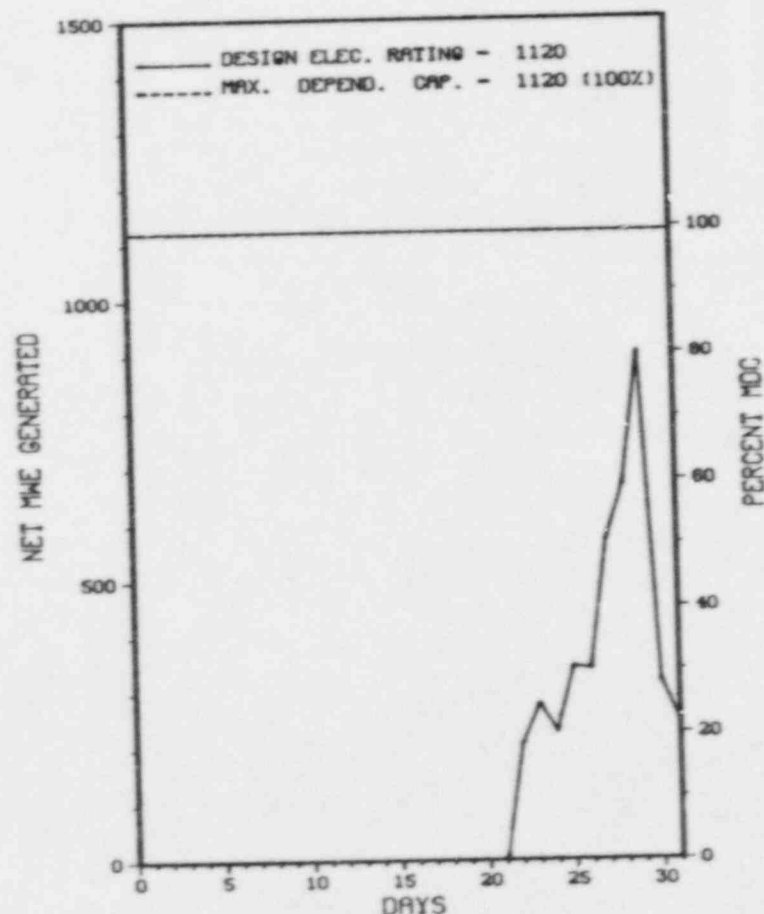
NONE

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

* BYRON 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * BYRON 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
7	11/26/87	S	506.6	H	4			UNIT 2 SURVEILLANCE OUTAGE
8	12/30/87	F	0.0	H	5			STEAM GENERATOR CAUTION CONDUCTIVITY

 * SUMMARY *

 BYRON 2 ENTERED DECEMBER SHUTDOWN FOR SURVEILLANCE OUTAGE, RETURNED TO POWER,
 AND SUBSEQUENTLY EXPERIENCED 1 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)

* BYRON 2 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS

COUNTY.....OGLE

DIST AND DIPECTION 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 60670

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

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215 NORTH WYMAN STREET
ROCKFORD, ILLINOIS 61101

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION FROM OCTOBER 31 THROUGH NOVEMBER 30, 1987 (87041; 87038): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS AND A HEADQUARTERS-BASED INSPECTOR OF THE LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; LERS; GENERIC LETTERS; OPERATIONS SUMMARY; TRAINING; SURVEILLANCE; MAINTENANCE; OPERATIONAL SAFETY; PART 21 REPORTS; EVENT FOLLOWUP; A MEETING WITH LOCAL PUBLIC OFFICIALS; ALLEGATIONS; AND MANAGEMENT CHANGES. OF THE 11 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN 9 AREAS; 2 VIOLATIONS WERE IDENTIFIED IN THE REMAINING AREAS (FAILURE TO PERFORM POST-MAINTENANCE TESTING; FAILURE TO PROPERLY TRAIN AND ESTABLISH A TRAINING PROGRAM FOR TECHNICAL STAFF ENGINEERS). ONE ADDITIONAL VIOLATION WAS IDENTIFIED (FAILURE TO MAINTAIN A CONTINUOUS FIRE WATCH IN A REQUIRED AREA); HOWEVER, IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.G.1, A NOTICE OF VIOLATION IS NOT ISSUED.

INSPECTION FROM OCTOBER 2 THROUGH 30, 1987 (87039; 87036): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTOR AND REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, OPERATIONS SUMMARY, DESIGN CHANGES AND MODIFICATIONS, TRAINING, SURVEILLANCE, MAINTENANCE, OPERATIONAL SAFETY AND ESF WALKDOWN, DEVIATION REPORTS, EVENT FOLLOWUP, AND MANAGEMENT MEETINGS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* BYRON 2 *

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

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: 02/05/88

INSPECTION REPORT NO: 88004

REPORTS FROM LICENSEE

=====			
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

87-20	120287	123087	UNANTICIPATED WATER DISCHARGE INTO THE PRIMARY SYSTEM FROM THE SAFETY INJECTION ACCUMULATORS DUE TO A PROCEDURAL INADEQUACY
=====			

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>26,582.5</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,227.7</u>	<u>21,997.8</u>
14. Rx Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,143.9</u>	<u>21,455.8</u>
16. Unit Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,498,378</u>	<u>19,809,907</u>	<u>68,289,780</u>
18. Gross Elec Ener (MWH)	<u>858,113</u>	<u>6,648,582</u>	<u>23,041,720</u>
19. Net Elec Ener (MWH)	<u>818,307</u>	<u>6,321,776</u>	<u>21,889,676</u>
20. Unit Service Factor	<u>100.0</u>	<u>70.1</u>	<u>80.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>70.1</u>	<u>80.7</u>
22. Unit Cap Factor (MDC Net)	<u>98.2</u>	<u>64.4</u>	<u>73.5</u>
23. Unit Cap Factor (DER Net)	<u>93.9</u>	<u>61.6</u>	<u>70.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.0</u>	<u>4.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>123.7</u>	<u>903.5</u>

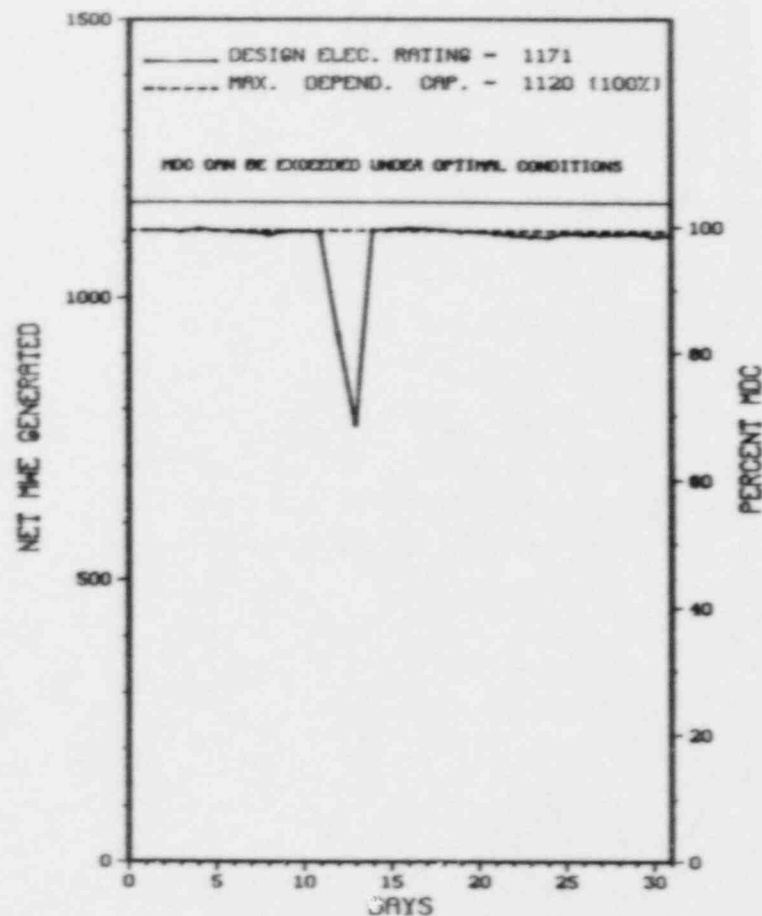
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

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

 * CALLAWAY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALLAWAY 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * CALLAWAY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
15	12/12/87	F	0.0	A	5			REDUCE POWER TO 48% TO REPAIR REACTOR COOLANT SYSTEM FLOW TRANSMITTER.

 * SUMMARY *

 CALLAWAY 1 INCURRED 1 POWER REDUCTION IN DECEMBER TO REPAIR REACTOR COOLANT SYSTEM FLOW TRANSMITTER.

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)

* CALLAWAY 1 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....MISSOURI
COUNTY.....CALLAWAY
DIST AND DIRECTION FROM
NEAREST POPULATION CTR. 10 MI SE OF
FULTON, MO
TYPE OF REACTOR.....PNR
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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 6-9, 1987 (870311): ROUTINE, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM DURING A MAINTENANCE OUTAGE, INCLUDING: CHANGES IN ORGANIZATION, PERSONNEL, FACILITIES, EQUIPMENT, PROGRAMS, AND PROCEDURES; AUDITS AND APPRAISALS; PLANNING AND PREPARATION; TRAINING AND QUALIFICATIONS OF NEW PERSONNEL, INTERNAL AND EXTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIALS, CONTAMINATION, SURVEYS, AND MONITORING; THE ALARA PROGRAM; LICENSEE RESPONSE TO NRC INFORMATION NOTICE NO. 87-39; CERTAIN LERS; AND OPEN ITEMS. TWO VIOLATIONS WERE IDENTIFIED: (FAILURE TO SAMPLE AND ANALYZE THE UNIT VENT GASEOUS TRITIUM EFFLUENT MONTHLY; AND FAILURE TO FOLLOW RWP REQUIREMENTS).

INSPECTION ON OCTOBER 7-17, 1987 (870333): A SPECIAL UNANNOUNCED SAFETY INSPECTION BY THE SENIOR RESIDENT INSPECTOR REGARDING MISPOSITIONED BALANCING DAMPER NO. GKD 0324 OF CONTROL ROOM EMERGENCY VENTILATION SYSTEM (CREVS) TRAIN "B." TWO APPARENT VIOLATIONS WERE IDENTIFIED (FAILURE TO PERFORM AN ADEQUATE PREOPERATIONAL TEST AND FAILURE TO PROMPTLY CORRECT, DOCUMENT, AND REPORT A CONDITION ADVERSE TO QUALITY). THE APPROPRIATE ENFORCEMENT ACTION FOR THESE VIOLATIONS WILL BE DETERMINED AND COMMUNICATED TO THE LICENSEE BY SEPARATE CORRESPONDENCE.

ENFORCEMENT SUMMARY

NONE

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* CALLAWAY 1 *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE PLANT OPERATED IN "COAST DOWN" DURING SEPTEMBER 1-10, 1987, WITH POWER LEVEL DECREASING FROM APPROXIMATELY 98% TO 80%. PLANT SHUTDOWN AND COOLDOWN COMMENCED ON SEPTEMBER 10. THE PLANT ENTERED MODE 6 ON SEPTEMBER 22, IN PREPARATION FOR REFUELING (CYCLE 2 RELOAD). THE OUTAGE IS SCHEDULED FOR COMPLETION ON NOVEMBER 13, 1987. OPERATIONS PERSONNEL PERFORMED THE PLANT SHUTDOWN AND COOLDOWN (MODE CHANGES) WITHOUT INCIDENT. DEFUELING IS IN PROGRESS. THE DEFUELING OPERATION WAS INTERRUPTED FOR APPROXIMATELY FIVE DAYS AS THE RESULT OF FUEL TRANSFER SYSTEM PROBLEMS (MISALIGNMENT OF TRACK IN CANAL). THE REPAIRS WERE COMPLETED AND THE SYSTEM SATISFACTORILY TESTED ON SEPTEMBER 30.

LAST IE SITE INSPECTION DATE: 09/15/88

INSPECTION REPORT NO: 38002

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

87-32	110887	120887	REACTOR TRIP ON LOW STEAM GENERATOR LEVEL OSCILLATIONS FOLLOWING LEAKING MAIN STEAM ISOLATION VALVE RETEST IN MODE NOT ALLOWED BY PROCEDURE

1. Docket: 50-317 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

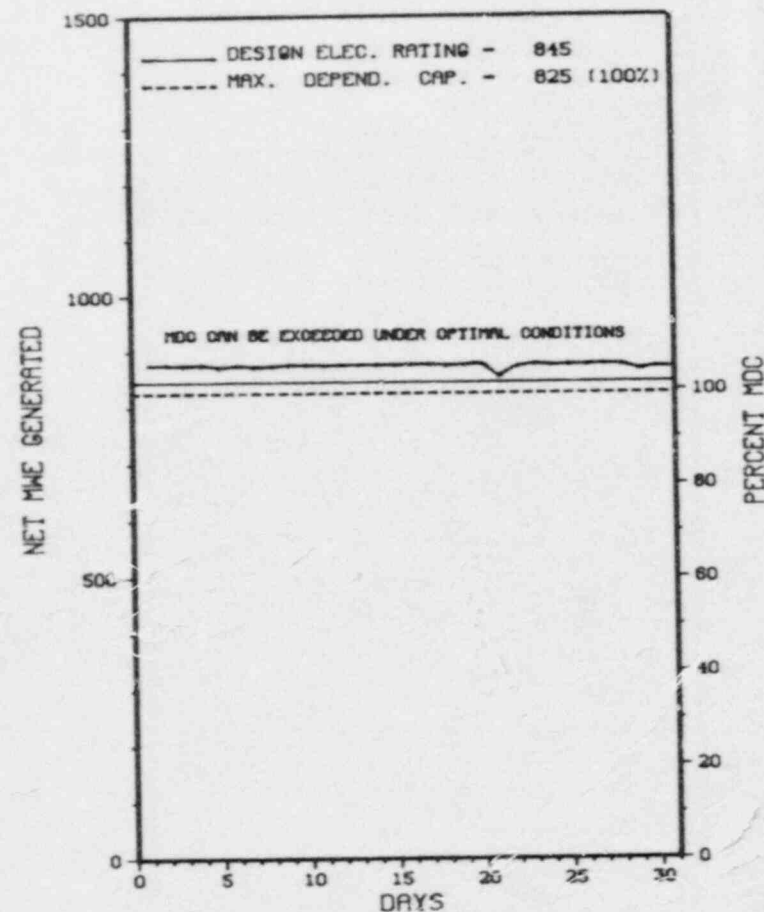
10. Power Level To Which Restricted, If Any (Net MWe):

11. Reasons for Restrictions, If Any:
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	8,760.0	110,893.0
13. Hours Reactor Critical	744.0	6,615.5	86,387.2
14. Rx Reserve Shtdwn Hrs	.0	.0	2,299.2
15. Hrs Generator On-Line	744.0	6,237.0	84,452.9
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,998,950	16,544,323	212,074,718
18. Gross Elec Ener (MWH)	67,524	5,525,719	78,215,601
19. Net Elec Ener (MWH)	650,572	5,268,477	67,015,517
20. Unit Service Factor	100.0	71.2	76.2
21. Unit Avail Factor	100.0	71.2	76.2
22. Unit Cap Factor (MDC Net)	106.0	72.9	73.2
23. Unit Cap Factor (DER Net)	103.5	71.2	71.5
24. Unit Forced Outage Rate	.0	25.8	9.3
25. Forced Outage Hours	.0	2,173.5	8,582.2
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>REFUELING - 4/8/88, DURATION 48 DAYS.</u>			
27. If Currently Sh. Down Estimated Starting Date: <u>4/8</u>			

* CALVERT CLIFFS 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
CALVERT CLIFFS 1



DECEMBER 1987

* Item calculated with a Weighted Average

PAGE 2-0r

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * CALVERT CLIFFS 1 *

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

NONE

 * SUMMARY *

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

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)

* CALVERT CLIFFS 1 *

FACILITY DATA

Report Period DEC 1987

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 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.....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

INSPECTION STATUS

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 DEC 1987

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

* CALVERT CLIFFS 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.			

=====

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2700

5. Nameplate Rating (Gross MWe): 1012 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>744.0</u>	<u>8,760.0</u>	<u>94,248.0</u>
13. Hours Reactor Critical	<u>714.4</u>	<u>5,957.8</u>	<u>77,843.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,296.8</u>
15. Hrs Generator On-Line	<u>709.6</u>	<u>5,861.6</u>	<u>76,680.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,815,590</u>	<u>15,023,809</u>	<u>193,340,663</u>
18. Gross Elec Ener (MWH)	<u>622,058</u>	<u>5,050,589</u>	<u>63,888,136</u>
19. Net Elec Ener (MWH)	<u>595,963</u>	<u>4,831,976</u>	<u>60,988,897</u>
20. Unit Service Factor	<u>95.4</u>	<u>66.9</u>	<u>81.4</u>
21. Unit Avail Factor	<u>95.4</u>	<u>66.9</u>	<u>81.4</u>
22. Unit Cap Factor (MDC Net)	<u>97.1</u>	<u>66.9</u>	<u>78.4</u>
23. Unit Cap Factor (DER Net)	<u>94.8</u>	<u>65.3</u>	<u>76.6</u>
24. Unit Forced Outage Rate	<u>4.6</u>	<u>4.0</u>	<u>5.6</u>
25. Forced Outage Hours	<u>34.4</u>	<u>246.5</u>	<u>4,572.5</u>

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

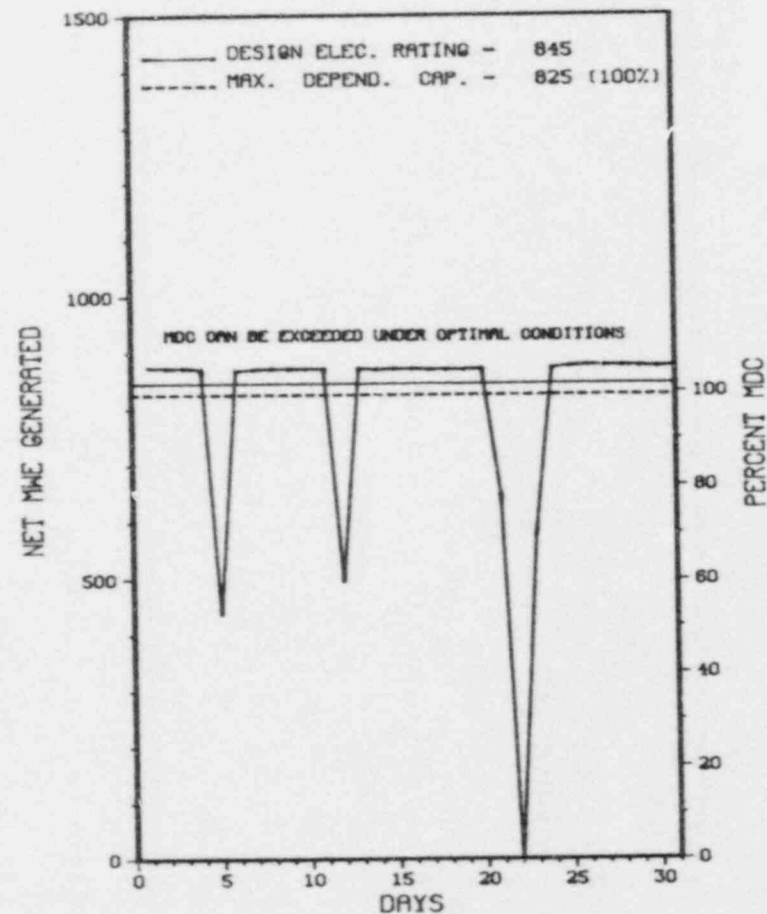
MAINTENANCE 2/24/88. DURATION 28 DAYS.

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

* CALVERT CLIFFS 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALVERT CLIFFS 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* CALVERT CLIFFS 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
80-18	12/05/87	S	0.0	B	5		CA	VALVEX	REDUCTION TAKEN TO ALLOW CONTAINMENT ENTRY FOR MAINTENANCE; VALVE 100F STD CLEANING AND BODY/BONNET LEAK INJECTION.
80-19	12/12/87	S	0.0	B	5		CA	VALVEX	REDUCTION TAKEN TO ALLOW CONTAINMENT ENTRY FOR MAINTENANCE; VALVE 100F RE-REPAIR BY LEAK INJECTION.
80-20	12/21/87	F	34.4	A	3	87-009	HA	GENERA	TRIP DUE TO LOSS OF LOAD; CAUSED BY FAILURE OF MAIN GENERATOR PERMANENT MAGNET FROM HOUSING MIS-ALIGNMENT, WHICH CAUSED A SHORT CIRCUIT. CORRECTIVE ACTION: MAINTENANCE PERSONNEL TO REVIEW ALIGNMENT PROCEDURE AND LER.

* SUMMARY *

CALVERT CLIFFS 2 INCURRED 2 POWER REDUCTIONS AND ONE FORCED OUTAGE IN DECEMBER 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		

* CALVERT CLIFFS 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

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 DEC 1987

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.

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: 50-413 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 1145

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>744.0</u>	<u>8,760.0</u>	<u>21,985.0</u>
13. Hours Reactor Critical	<u>63.0</u>	<u>6,076.4</u>	<u>15,114.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>6.9</u>	<u>5,928.6</u>	<u>14,599.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>11,499</u>	<u>19,482,642</u>	<u>46,054,864</u>
18. Gross Elec Ener (MWH)	<u>728</u>	<u>6,810,390</u>	<u>16,091,122</u>
19. Net Elec Ener (MWH)	<u>-21,038</u>	<u>6,377,839</u>	<u>15,000,845</u>
20. Unit Service Factor	<u>.9</u>	<u>67.7</u>	<u>66.4</u>
21. Unit Avail Factor	<u>.9</u>	<u>67.7</u>	<u>66.4</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>63.6</u>	<u>59.6</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>63.6</u>	<u>59.6</u>
24. Unit Forced Outage Rate	<u>98.6</u>	<u>15.9</u>	<u>18.2</u>
25. Forced Outage Hours	<u>501.9</u>	<u>1,116.7</u>	<u>3,259.1</u>

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

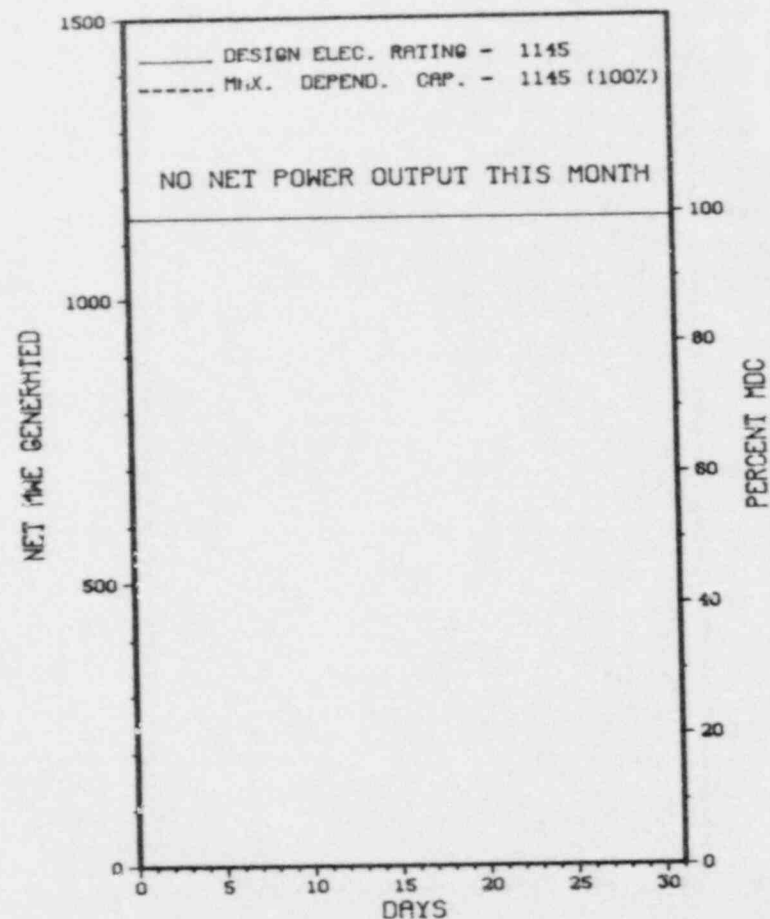
NONE

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

 * CATAWBA 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CATAWBA 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * CATAWBA 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
12	10/03/87	S	234.5	C	4		RC	FUELXX	END OF CYCLE 2 REFUELING OUTAGE.
68-P	12/31/87	S	0.0	B	5		RC	ZZZZZZ	ZERO POWER PHYSICS TESTING
13	12/10/87	F	501.9	A	9		RB	CRDRVE	OUTAGE EXTENSION DUE TO CONTROL ROD DRIVE MECHANISM VENT PLUG LEAKAGE
14	12/31/87	S	0.7	B	1		HA	TURBIN	TURBINE OVERSPEED TRIP TEST

 * SUMMARY *

CATAWBA COMPLETED REFUELING OUTAGE IN DECEMBER. REMAINED SHUTDOWN TO END OF MONTH FOLLOWING A TURBINE OVERSPEED TRIP TEST.

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 DEC 1987

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...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
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.....50-413
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 OCTOBER 26 - NOVEMBER 25 (87-36): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF REVIEW OF PLANT OPERATIONS; SURVEILLANCE OBSERVATIONS; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS; REFUELING ACTIVITIES (UNIT 1); AND COLD WEATHER PREPARATIONS. OF THE SEVEN (7) AREAS INSPECTED, NO APPARENT VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 2-6 (87-37): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOWUP ON PREVIOUSLY IDENTIFIED OPEN ITEMS. ONE VIOLATION WAS IDENTIFIED. UNQUALIFIED PERSONNEL ASSIGNED TO FIRE BRIGADE DUTY.

INSPECTION NOVEMBER 2-5 (87-39): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; BARRIERS - PROTECTED AND VITAL AREAS, SECURITY SYSTEM POWER SUPPLY; ACCESS CONTROL OF PERSONNEL AND PACKAGES; DETECTION AIDS - VITAL AREA; ALARM STATIONS; AND COMMUNICATIONS. ONE VIOLATION WAS IDENTIFIED FAILURE TO BADGE AN INDIVIDUAL PRIOR TO THEIR ENTRY INTO THE PROTECTED AREA.

INSPECTION NOVEMBER 16-20 (87-40): THIS WAS A ROUTINE, UNANNOUNCED INSPECTION IN THE AREA OF RADIATION PROTECTION INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIAL, CONTAMINATION, SURVEYS AND MONITORING; AND THE HEALTH PHYSICS ASPECTS OF THE CURRENT OUTAGE. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO PROVIDE ADEQUATE WRITTEN PROCEDURES FOR CONTROLLING CONTAMINATED TOOLS AND FAILURE TO POST A NOTICE OF VIOLATION AS REQUIRED. AN ADDITIONAL EXAMPLE OF A VIOLATION DESCRIBED IN INSPECTION REPORT NOS. 50-413/87-31 AND 50-414/87-31 FOR FAILURE TO ADHERE TO RADIOLOGICAL CONTROL PROCEDURE FOR PERSONNEL MONITORING WAS ALSO IDENTIFIED.

Report Period DEC 1987

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

X CATAMBA 1 X

INSPECTION SUMMARY

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: NOVEMBER 2-5, 1987 +

INSPECTION REPORT NO: 50-413/87-39 +

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

87-037	09/09/87	12/15/87	FAILURE OF ITT GRINNEL MIN-STIFF PIPE CLAMPS-FIGURE 214-DUE TO MANUFACTURING DEFICIENCY
87-039	11/02/87	12/02/87	AUXILIARY FEEDWATER AUTO-START WHILE IMPLEMENTING TWO NUCLEAR STATION MODIFICATIONS SIMULTANEOUSLY DURING A REFUELING
=====			

1. Docket: 50-414 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 1145

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>744.0</u>	<u>8,760.0</u>	<u>12,001.0</u>
13. Hours Reactor Critical	<u>552.4</u>	<u>7,212.8</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>552.0</u>	<u>7,019.0</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>1,260,262</u>	<u>21,682,879</u>	<u>25,727,493</u>
18. Gross Elec Ener (MWH)	<u>448,176</u>	<u>7,653,886</u>	<u>9,077,028</u>
19. Net Elec Ener (MWH)	<u>411,465</u>	<u>7,169,495</u>	<u>8,466,697</u>
20. Unit Service Factor	<u>74.2</u>	<u>80.1</u>	<u>69.5</u>
21. Unit Avail Factor	<u>74.2</u>	<u>80.1</u>	<u>69.5</u>
22. Unit Cap Factor (MDC Net)	<u>48.3</u>	<u>71.5</u>	<u>61.6</u>
23. Unit Cap Factor (DER Net)	<u>48.3</u>	<u>71.5</u>	<u>61.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>17.4</u>	<u>28.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,478.8</u>	<u>3,394.0</u>

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

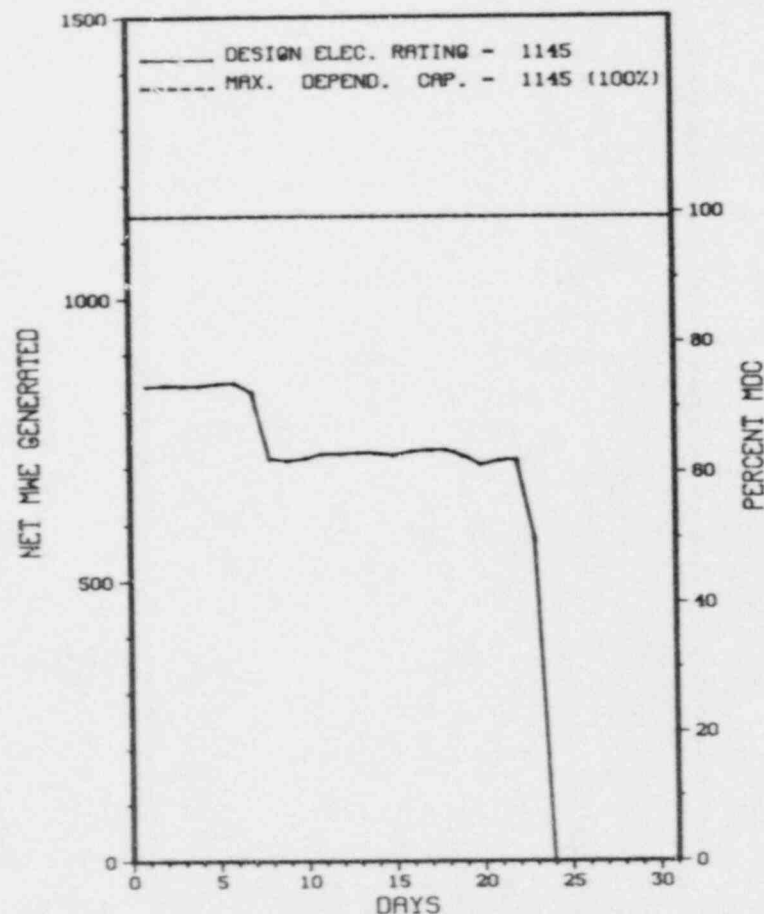
NONE

27. If Currently Shutdown Estimated Startup Date: 02/23/88

 * CATAWBA 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CATAWBA 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* CATAWBA 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
116-P	12/01/87	S	0.0	F	5		ZZ	XXXXXX	POWER REDUCTION FOR CORE COASTDOWN
117-P	12/07/87	F	0.0	A	5		HH	PUMPXX	POWER REDUCTION DUE TO FEEDWATER PUMP '1A' INBOARD SEAM RUPTURE
118-P	12/09/87	S	0.0	F	5		ZZ	XXXXXX	POWER REDUCTION FOR CORE COASTDOWN
19	12/24/87	S	192.0	C	1		RC	FUELXX	END OF CYCLE 1 REFUELING OUTAGE

* SUMMARY *

CATAWBA 2 INCURRED 3 POWER REDUCTIONS IN DECEMBER AS STATED ABOVE.
SUBSEQUENTLY, SHUTDOWN 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 (NUR&G-0161)

* CATAWBA 2 *

FACILITY DATA

Report Period DEC 1987

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 GENER...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 OCTOBER 26 - NOVEMBER 25 (87-36): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF REVIEW OF PLANT OPERATIONS; SURVEILLANCE OBSERVATIONS; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS; REFUELING ACTIVITIES (UNIT 1); AND COLD WEATHER PREPARATIONS. OF THE SEVEN (7) AREAS INSPECTED, NO APPARENT VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 2-6 (87-37): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOWUP ON PREVIOUSLY IDENTIFIED OPEN ITEMS. ONE VIOLATION WAS IDENTIFIED. UNQUALIFIED PERSONNEL ASSIGNED TO FIRE BRIGADE DUTY.

INSPECTION NOVEMBER 2-5 (87-39): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; BARRIERS - PROTECTED AND VITAL AREAS, SECURITY SYSTEM POWER SUPPLY; ACCESS CONTROL OF PERSONNEL AND PACKAGES; DETECTION AIDS - VITAL AREA; ALARM STATIONS; AND COMMUNICATIONS. ONE VIOLATION WAS IDENTIFIED FAILURE TO BADGE AN INDIVIDUAL PRIOR TO THEIR ENTRY INTO THE PROTECTED AREA.

INSPECTION NOVEMBER 16-20 (87-40): THIS WAS A ROUTINE, UNANNOUNCED INSPECTION IN THE AREA OF RADIATION PROTECTION INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIAL, CONTAMINATION, SURVEYS AND MONITORING; AND THE HEALTH PHYSICS ASPECTS OF THE CURRENT OUTAGE. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO PROVIDE ADEQUATE WRITTEN PROCEDURES FOR CONTROLLING CONTAMINATED TOOLS AND FAILURE TO POST A NOTICE OF VIOLATION AS REQUIRED. AN ADDITIONAL EXAMPLE OF A VIOLATION DESCRIBED IN INSPECTION REPORT NOS. 50-413/87-31 AND 50-414/87-31 FOR FAILURE TO ADHERE TO RADIOLOGICAL CONTROL PROCEDURE FOR PERSONNEL MONITORING WAS ALSO IDENTIFIED.

Report Period DEC 1987

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

* CATAWBA 2 *

INSPECTION SUMMARY

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: NOVEMBER 2-5, 1987 +

INSPECTION REPORT NO: 50-414/87-39 +

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 933

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>744.0</u>	<u>898.3</u>	<u>898.3</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>898.3</u>	<u>898.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>898.3</u>	<u>898.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,766,704</u>	<u>2,145,500</u>	<u>2,145,500</u>
18. Gross Elec Ener (MWH)	<u>589,043</u>	<u>716,650</u>	<u>716,650</u>
19. Net Elec Ener (MWH)	<u>562,135</u>	<u>684,103</u>	<u>684,103</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>82.5</u>	<u>82.9</u>	<u>83.1</u>
23. Unit Cap Factor (DER Net)	<u>81.0</u>	<u>81.6</u>	<u>81.6</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):

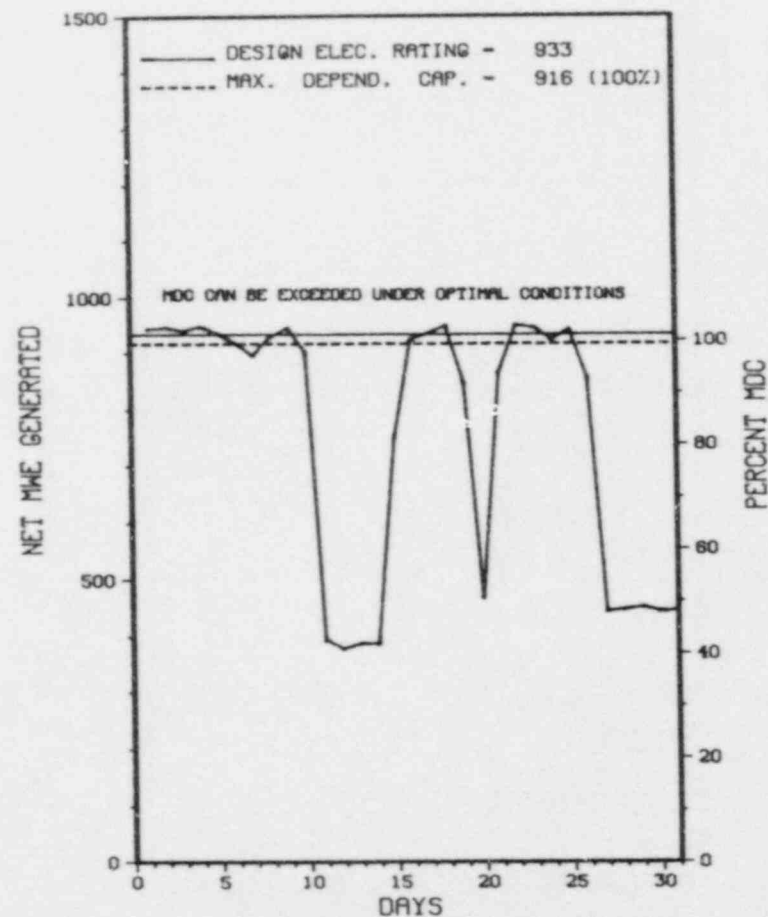
MAINTENANCE - MARCH 19, 1988 - 6 WEEK DURATION.

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

* CLINTON 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CLINTON 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * CLINTON 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	12/10/87	F	0.0	A	5				POWER REDUCED TO APPROXIMATELY 42% TO ALLOW REPAIR OF STEAM LEAKS.
2	12/19/87	F	0.0	A	5				POWER REDUCED TO APPROXIMATELY 50% TO ALLOW REPAIR OF CONDENSER WATER BOX TUBES.
3	12/26/87	F	0.0	A	5				POWER REDUCED TO APPROXIMATELY 48% TO ALLOW REPAIR OF CONDENSER WATER BOX TUBES, AND REPAIR OF THE 4B FEEDWATER HEAT EXCHANGER.

 * SUMMARY *

 CLINTON 1 INCURRED 3 POWER REDUCTIONS IN DECEMBER TO ALLOW FOR REPAIRS 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)

* CLINTON 1 *

FACILITY DATA

Report Period DEC 1987

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.....R. STEVENS
DOCKET NUMBER.....50-461
LICENSE & DATE ISSUANCE...NPF-62, APRIL 17, 1987
PUBLIC DOCUMENT ROOM.....VESPASIAN WARNER PUBLIC LIBRARY
120 WEST JOHNSON ST.
CLINTON, IL. 61727

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 14 THROUGH NOVEMBER 25, 1987 (87036): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS AND REGION-BASED INSPECTOR OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; OFFSITE REVIEW COMMITTEE; 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; STARTUP TEST WITNESSING; ONSITE FOLLOWUP OF EVENTS AT OPERATING REACTORS; AND MANAGEMENT MEETING. OF THE 10 AREAS INSPECTED, ONE VIOLATION 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 FOLLOWING OF EVENTS FOR WHICH A NOTICE OF VIOLATION WAS NOT ISSUED IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, PARAGRAPH V (FAILURE TO PERFORM SHIFTLY CHANNEL CHECK - PARAGRAPH 11.B.(1)).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

Report Period DEC 1987

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

* CLINTON 1 *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE LICENSEE HAS COMPLETED THE POWER ASCENSION TEST PROGRAM. THE LICENSEE IS CURRENTLY OPERATING AT 100% POWER.

LAST IE SITE INSPECTION DATE: 02/15/88

INSPECTION REPORT NO: 88003

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

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

87-63	112287	121787	INOPERABLE DIVISION 1 REACTOR VESSEL PRESSURE TRANSMITTER DUE TO FAILURE OF CONTROL AND INSTRUMENTATION TECHNICIANS TO FOLLOW PROCEDURE DURING VALVE OPERATION
87-67	112487	122287	OVERLY RESTRICTIVE DESIGN SETPOINT TRIP TOLERANCE FOR TEMPERATURE SWITCH RESULTS IN BROKEN LEAD WIRE AND REACTOR CORE ISOLATION COOLING ISOLATION
87-69	120387	123187	LICENSED OPERATOR OVERSIGHT DURING REVIEW OF SURVEILLANCE IMPACT MATRIX RESULTS IN INOPERABLE CONTAINMENT ISOLATION FUNCTION OF VALVE
=====			

1. Docket: 50-315 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>113,952.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,000.6</u>	<u>81,836.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>463.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,918.8</u>	<u>80,237.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>321.0</u>
17. Gross Therm Ener (MWH)	<u>2,096,851</u>	<u>16,358,890</u>	<u>232,991,370</u>
18. Gross Elec Ener (MWH)	<u>683,500</u>	<u>5,248,800</u>	<u>76,144,670</u>
19. Net Elec Ener (MWH)	<u>656,519</u>	<u>5,033,767</u>	<u>73,230,998</u>
20. Unit Service Factor	<u>100.0</u>	<u>67.6</u>	<u>71.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>67.6</u>	<u>71.6</u>
22. Unit Cap Factor (MDC Net)	<u>86.5</u>	<u>56.3</u>	<u>64.4</u>
23. Unit Cap Factor (DER Net)	<u>85.7</u>	<u>55.8</u>	<u>62.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>6.1</u>	<u>8.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>382.3</u>	<u>6,618.2</u>

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

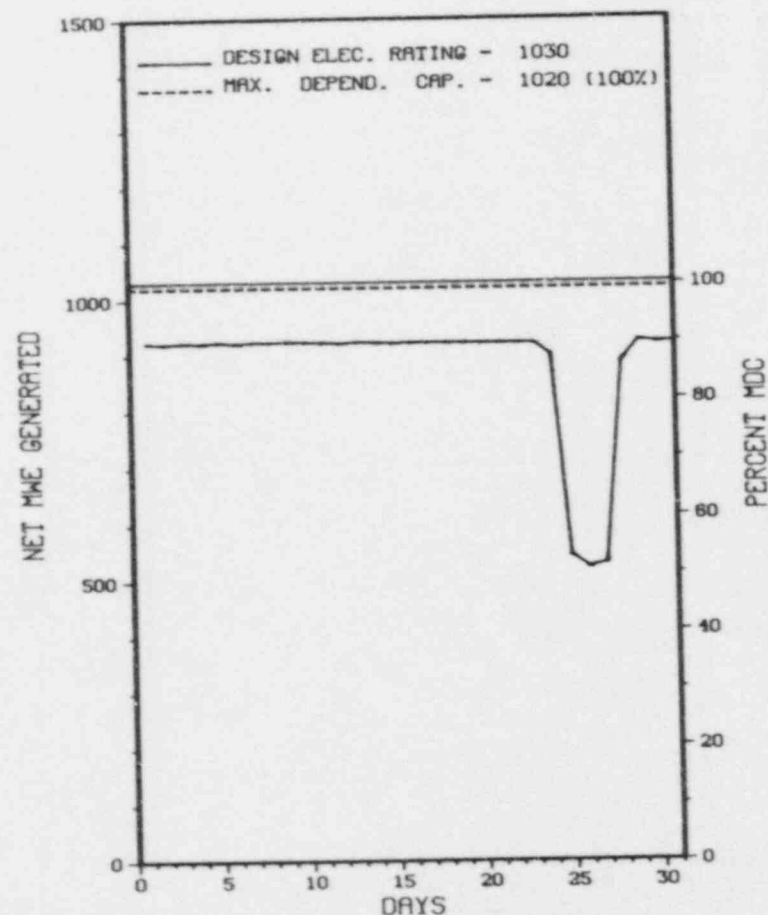
SURVEILLANCE OUTAGE - APRIL 2, 1988 - DURATION 10 DAYS.

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

*****~*****
 * COOK 1 *
 *****~*****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOK 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* COOK 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
265	12/24/87	S	0.0	H	5		HF	HTEXCH	POWER WAS REDUCED FROM 90% TO 56% TO ALLOW CLEANING OF THE MAIN FEED PUMP CONDENSERS. FOLLOWING CLEANING, POWER WAS INCREASED TO 90%.

* SUMMARY *

COOK 1 OPERATED AT A NOMINAL 90% ADMINISTRATIVELY IMPOSED POWER LEVEL DURING DECEMBER.
ONE POWER REDUCTION WAS INCURRED TO ALLOW FOR CLEANING OF MAIN FEEDPUMP CONDENSER.

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)

* COOK 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON SEPTEMBER 29 THROUGH NOVEMBER 10, 1987 (87029; 87029): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTORS OF: ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; PLANT OPERATIONS; REACTOR TRIPS; RADIOLOGICAL CONTROLS; MAINTENANCE; SURVEILLANCE; FIRE PROTECTION AND CLEANLINESS; SECURITY; STEAM GENERATOR REPAIR PROJECT; AND INFORMATION NOTICES AND GENERIC LETTERS. OF THE 11 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN TEN AREAS. ONE VIOLATION WAS IDENTIFIED (LEVEL IV - FAILURE TO PERFORM REQUIRED REVIEWS AND APPROVALS FOR SUBSTITUTE REPAIR MATERIAL) IN THE REMAINING AREA.

INSPECTION ON NOVEMBER 3-6, 12, AND 13, 1987 (87030): ROUTINE, ANNOUNCED INSPECTION OF QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

INSPECTION STATUS - (CONTINUED)

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*****  
*                COOK 1                *  
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SYSTEMS AND COMPONENT PROBLEMS:

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

THE TECHNICAL SUPERINTENDENT, PHYSICAL SCIENCE HAS BEEN DESIGNATED AS THE RADIATION PROTECTION MANAGER

PLANT STATUS:

THE UNIT OPERATED NORMALLY THROUGHOUT THE MONTH.

LAST IE SITE INSPECTION DATE: 01/20/88

INSPECTION REPORT NO: 88005

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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87-22	100787	123187	POTENTIAL VIOLATION OF ESF INSTRUMENTATION LIMITING CONDITIONS FOR OPERATION TOLERANCES DUE TO CALIBRATION SHIFT
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1. Docket: 50-316 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: HIRSCH (616) 465-5901

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1333 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>744.0</u>	<u>8,760.0</u>	<u>87,648.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,283.1</u>	<u>60,872.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,251.6</u>	<u>59,495.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2.2</u>
17. Gross Therm Ener (MWH)	<u>1,995,088</u>	<u>16,484,193</u>	<u>184,579,238</u>
18. Gross Elec Ener (MWH)	<u>651,390</u>	<u>5,258,580</u>	<u>59,476,440</u>
19. Net Elec Ener (MWH)	<u>623,911</u>	<u>5,026,564</u>	<u>57,263,481</u>
20. Unit Service Factor	<u>100.0</u>	<u>71.4</u>	<u>69.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>71.4</u>	<u>69.8</u>
22. Unit Cap Factor (MDC Net)	<u>79.1</u>	<u>54.1</u>	<u>62.6</u>
23. Unit Cap Factor (DER Net)	<u>76.2</u>	<u>52.2</u>	<u>61.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>17.7</u>	<u>15.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,341.3</u>	<u>10,497.2</u>

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

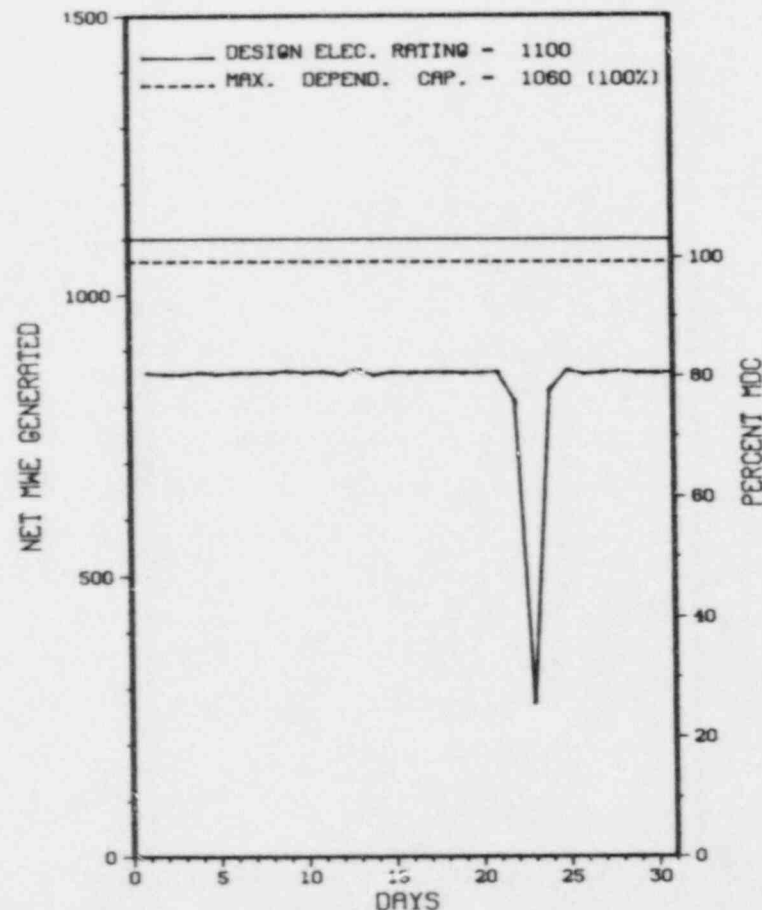
S.G. REPLACEMENT - APRIL 23, 1988 - DURATION 225 DAYS.

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

X COOK 2 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOK 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* COOK 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
186	12/22/87	S	0.0	H	5		ZZ	ZZZZZZ	POWER WAS REDUCED FROM 80% TO 8% TO ALLOW AN OIL ADDITION TO THE #21 REACTOR COOLANT PUMP. BOTH MAIN FEEDPUMP CONDENSERS WERE CLEANED DURING THIS TIME. POWER WAS RETURNED TO 80% ON 12-24-87.

* SUMMARY *

COOK 2 OPERATED AT A NOMINAL 80% ADMINISTRATIVELY IMPOSED POWER LEVEL DURING DECEMBER.
ONE POWER REDUCTION WAS INCURRED AS DESCRIBED ABOVE.

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)

* COOK 2 *

FACILITY DATA

Report Period DEC 1987

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 STATUS

INSPECTION SUMMARY

INSPECTION ON SEPTEMBER 29 THROUGH NOVEMBER 10, 1987 (87029; 87029): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTORS OF: ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; PLANT OPERATIONS; REACTOR TRIPS; RADIOLOGICAL CONTROLS; MAINTENANCE; SURVEILLANCE; FIRE PROTECTION AND CLEANLINESS; SECURITY; STEAM GENERATOR REPAIR PROJECT; AND INFORMATION NOTICES AND GENERIC LETTERS. OF THE 11 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN TEN AREAS. ONE VIOLATION WAS IDENTIFIED (LEVEL IV - FAILURE TO PERFORM REQUIRED REVIEWS AND APPROVALS FOR SUBSTITUTE REPAIR MATERIAL) IN THE REMAINING AREA.

INSPECTION ON NOVEMBER 3-6, 12, AND 13, 1987 (87030): ROUTINE, ANNOUNCED INSPECTION OF QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* COOK 2 *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT OPERATED NORMALLY THROUGHOUT THE MONTH.

LAST IE SITE INSPECTION DATE: 01/20/88

INSPECTION REPORT NO: 68006

REPORTS FROM LICENSEE

=====			
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

=====			

1. Docket: 50-298 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>118,369.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>3,424.2</u>	<u>90,007.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>8,292.4</u>	<u>88,544.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,644,816</u>	<u>17,163,363</u>	<u>174,630,707</u>
18. Gross Elec Ener (MWH)	<u>548,018</u>	<u>5,714,073</u>	<u>56,059,081</u>
19. Net Elec Ener (MWH)	<u>530,214</u>	<u>5,522,126</u>	<u>54,028,624</u>
20. Unit Service Factor	<u>100.0</u>	<u>94.7</u>	<u>74.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>94.7</u>	<u>74.8</u>
22. Unit Cap Factor (MDC Net)	<u>93.3</u>	<u>82.5</u>	<u>59.7</u>
23. Unit Cap Factor (DER Net)	<u>91.6</u>	<u>81.0</u>	<u>58.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.9</u>	<u>4.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>336.8</u>	<u>3,695.3</u>

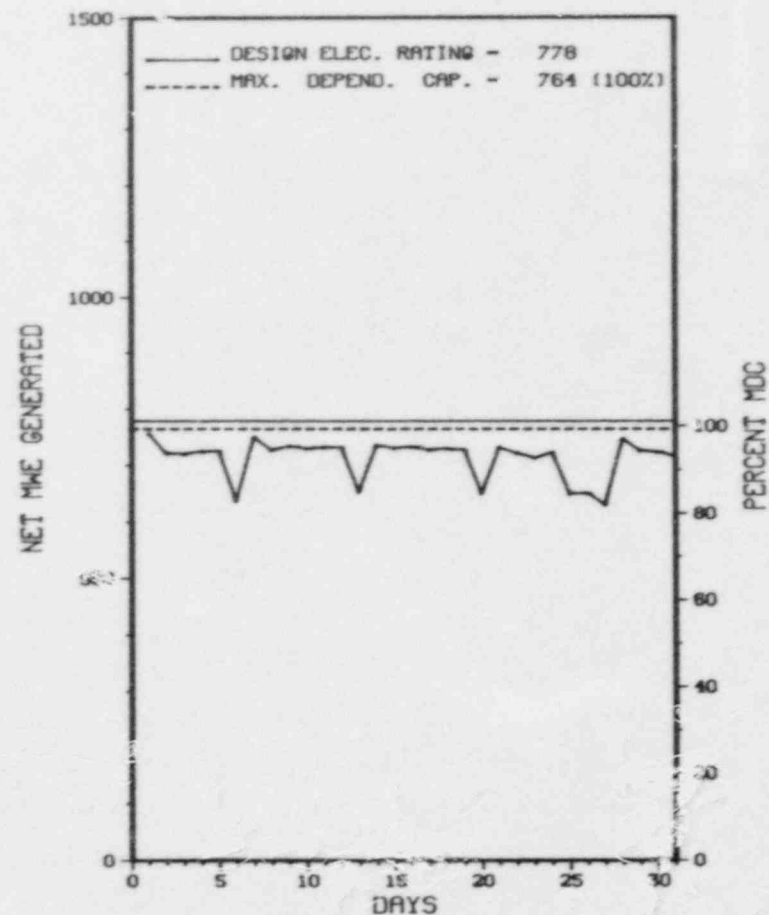
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUEL/MAINTENANCE - FEBRUARY 27, 1988 - DURATION : WEEKS.

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

* COOPER STATION *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOPER STATION



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* COOPER STATION *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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

NONE

* SUMMARY *

COOPER OPERATED ROUTINELY IN DECEMBER 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)

* COOPER STATION *

FACILITY DATA

Report Period DEC 1987

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
DOCKET 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 OCT.26-29, 1987 (87-27) ROUTINE, UNANNOUNCED INSPECTION OF PREVIOUS INSPECTION FINDINGS ACCESS CONTROL - PERSONNEL, LOCKS, KEYS, AND COMBINATIONS, COMM-UNICATIONS, DETECTION AIDS - VITAL AREA, AND ALARM STATIONS. WITHIN THE AREAS INSPECTED, TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED NOV.1-30, 1987 (87-28) ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS, ENGINEERED SAFETY FEATURE WALKDOWN, MONTHLY SURVEILLANCE AND MAINTENANCE OBSERVATIONS, OPERATIONAL SAFETY VERIFICATION, AND RADIOLOGICAL PROTECTION. WITHIN THE AREAS INSPECTED, TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED NOV.16-20, 1987 (87-30) ROUTINE, UNANNOUNCED INSPECTION OF FOLLOWUP OF 10 CFR PART 21 REPORTS, INSPECTION AND ENFORCEMENT NOTICES, BULLETINS SENT FOR INFORMATION, GENERIC LETTERS, AND LICENSEE EVENT REPORTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

Report Period DEC 1987

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

* COOPER STATION *

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: NOV.30, 1987

INSPECTION REPORT NO: 50-298/87-28

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
-----
87-023    04/14/87          SETPOINT DRIFT OF BARKSDALE BOURDON TUBE PRESSURE SWITCHES,MODEL B2T
87-024    11/06/87          FAILURE OF HPCI TURBINE OVERSPEED TRIP MECHANISM TO AUTOMATICALLY RESET DURING SURVEILLANCE
          TESTING DUE TO BINDING OF THE TAPPET ASSEMBLY
87-024R1  11/06/87   12/08/87  FAILURE OF HPCI TURBINE OVERSPEED TRIP MECHANISM TO AUTOMATICALLY RESET DURING SURVEILLANCE
          TESTING DUE TO BINDING OF THE TAPPET ASSEMBLY
87-025    11/12/87   12/14/87  DEFICIENCY IN A DESIGN ENGINEERING EFFORT PERFORMED IN RESPONSE TO A TMI-2 LESSONS LEARNED NRC
          CONCERN
=====
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1. Docket: 50-302 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>94,704.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>5,333.6</u>	<u>59,326.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,275.5</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>5,263.8</u>	<u>58,016.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>11,143,251</u>	<u>129,747,188</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>3,819,322</u>	<u>44,374,115</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>3,620,784</u>	<u>42,133,582</u>
20. Unit Service Factor	<u>.0</u>	<u>60.1</u>	<u>61.3</u>
21. Unit Avail Factor	<u>.0</u>	<u>60.1</u>	<u>61.3</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>50.3</u>	<u>54.2</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>50.1</u>	<u>53.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>10.4</u>	<u>23.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>609.6</u>	<u>17,635.0</u>

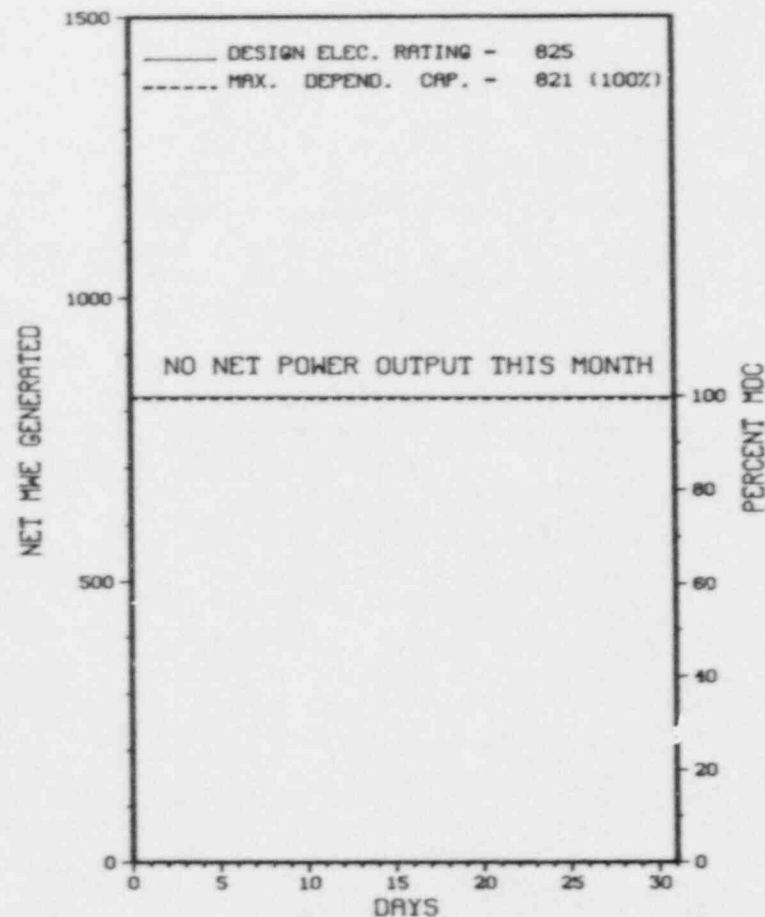
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 01/09/88

* CRYSTAL RIVER 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CRYSTAL RIVER 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * CRYSTAL RIVER 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-19	09/18/87	S	744.0	C	4		ZZ	ZZZZZZ	REFUELING OUTAGE CONTINUES

 * SUMMARY *

 CRYSTAL RIVER 3 REMAINED SHUTDOWN IN DECEMBER 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)

* CRYSTAL RIVER 3 *

FACILITY DATA

Report Period DEC 1987

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 33735
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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION 19-23 AND NOVEMBER 2-6 (87-32): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREA OF INSERVICE INSPECTION (ISI): REVIEW OF ISI PROCEDURES AND EVALUATION OF INSERVICE INSPECTION RESULTS; LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; LETDOWN COOLER 3C INSTALLATION; LICENSEE ACTION ON TEMPORARY INSTRUCTION (TI) 2515(84); IE BULLETIN 83-07. ONE APPARENT VIOLATION WAS IDENTIFIED - FAILURE TO MEET ASME CODED SECTION IX WELDER PERFORMANCE QUALIFICATION REQUIREMENTS.

INSPECTION NOVEMBER 2-10 (87-38): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF CONTAINMENT INTEGRATED LEAK RATE TESTING INCLUDING: OBSERVATION OF TEST PREPARATIONS AND TEST PERFORMANCE, REVIEW OF THE TEST PROCEDURE, AND EVALUATION OF TEST RESULTS. VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION NOVEMBER 16-20 (87-39): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF EXTERNAL EXPOSURE CONTROL, INTERNAL EXPOSURE CONTROL, SURVEYS, MONITORING AND CONTROL OF RADIOACTIVE MATERIAL, TRANSPORTATION OF RADIOACTIVE MATERIALS, SOLID RADIOACTIVE WASTE MANAGEMENT, LICENSEE'S PROGRAM FOR MAINTAINING OCCUPATIONAL EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA), TRAINING AND QUALIFICATIONS, ORGANIZATION AND MANAGEMENT CONTROLS, AND FOLLOWUP ON IE INFORMATION NOTICES. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PROPERLY SOLIDIFY LIQUID WASTE TRANSPORTED FOR BURIAL.

ENFORCEMENT SUMMARY

ENFORCEMENT SUMMARY

CONTRARY TO TS 4.4.9.1.1, DURING A COOLDOWN OF RCS BELOW 140 DEGREES, CONDUCTED ON AUGUST 23, 1987, THE COOLDOWN RATE WAS NOT DETERMINED TO BE WITHIN THE COOLDOWN RATE LIMIT OF 10 DEGREES PER HOUR EVERY 30 MINUTES. CONTRARY TO TS 6.8.2.C AND PROCEDURE AI-401, DURING THE PERIOD OF JULY 1 THROUGH AUGUST 26, 1987, AN INDIVIDUAL CONTINUED TO PERFORM THE DUTIES OF A QUALIFIED REVERSEMER EVEN THOUGH THIS INDIVIDUAL'S TRAINING AND CERTIFICATION HAD EXPIRED ON JUNE 30, 1987.

CONTRARY TO TS 6.5.2.3.B A MEMBER ON THE NGRC DID NOT HAVE THREE YEARS OF EXPERIENCE INVOLVED WITH THE OPERATION AND/OR DESIGN OF A NUCLEAR POWER PLANT.

(8702 5)

CONTRARY TO 10 CFR 50.54(Q); 10 CFR 50.47(B)(4); TECHNICAL SPECIFICATION 6.8.1.E; SECTION 5.G OF [REDACTED] 1; SECTION 6.0, "RECORDS AND NOTIFICATIONS," THE IMPLEMENTING PROCEDURES WERE NOT PROPERLY MAINTAINED AND IMPLEMENTED. THREE EXAMPLES GIVEN.
(8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS.

LAST IE SITE INSPECTION DATE: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-302/87-39 +

Report Period DEC 1987

REPORTS FROM LICENSEE

* CRYSTAL RIVER 3 *

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NUMBER    DATE OF    DATE OF    SUBJECT
EVENT     REPORT
-----
87-022    11/06/87   12/04/87   CIRCUIT BREAKER TRIPS, DE-ENERGIZING SENSING CHANNEL AND ACTUATING ENGINEERED SAFEGUARDS
87-025    10/16/87   12/15/87   ACCIDENTAL GROUNDING OF THE UNIT STARTUP TRANSFORMER LEADS INTERRUPTION OFFSITE POWER AND ENG.
SAFEGUARDS ACTUATION
87-026    11/09/87   12/01/87   PERSONNEL ERROR RESULTS IN DEVELOPMENT OF AN ERRONEOUS FUEL MOVE SHEET AND PLACING A FUEL
ASSEMBLY IN INCORRECT LOCATION
87-027    10/26/87   11/25/87   PERSONNEL ERROR LEADS TO VALVING OUT INCORRECT TRANSMITTER WHICH RESULTS IN AN "A" TRAIN
ENGINEERED SAFEGUARDS ACTUATION
87-028    12/05/87   01/04/88   INADEQUATE OPERATOR TRAINING LEADS TO IMPROPER VITAL BUS SWITCHING SEQUENCE AND ENG SAFEGUARDS
SYSTEM ACTUATION
87-029    11/18/87   12/18/87   PERSONNEL ERROR LEADS TO EXCEEDING RADIATION MONITOR SURV INTERVAL AND FAILURE TO MEET TS
REQUIREMENT FOR LIQUID RADWASTE REL
87-030    11/20/87   12/18/87   UNKNOWN CAUSE LEADS TO "B" TRAIN ENGINEERED SAFEGUARDS ACTUATION
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1. Docket: 50-346 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWh): 2772

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

6. Design Electrical Rating (Net MWe): 906

7. Maximum Dependable Capacity (Gross MWe): 918

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>744.0</u>	<u>8,760.0</u>	<u>82,585.0</u>
13. Hours Reactor Critical	<u>711.1</u>	<u>7,425.7</u>	<u>43,481.7</u>
14. Rx Reserve Shtdwn Hrs	<u>32.9</u>	<u>425.3</u>	<u>5,050.1</u>
15. Hrs Generator On-line	<u>701.5</u>	<u>7,312.4</u>	<u>41,800.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,732.7</u>
17. Gross Therm Ener (MWH)	<u>1,542,784</u>	<u>16,535,535</u>	<u>97,962,198</u>
18. Gross Elec Ener (MWH)	<u>510,883</u>	<u>5,413,416</u>	<u>32,375,803</u>
19. Net Elec Ener (MWH)	<u>478,556</u>	<u>5,065,984</u>	<u>30,300,647</u>
20. Unit Service Factor	<u>94.3</u>	<u>83.5</u>	<u>50.6</u>
21. Unit Avail Factor	<u>94.3</u>	<u>83.5</u>	<u>52.7</u>
22. Unit Cap Factor (MDC Net)	<u>74.8</u>	<u>67.2</u>	<u>42.6</u>
23. Unit Cap Factor (DER Net)	<u>71.0</u>	<u>63.8</u>	<u>40.5</u>
24. Unit Forced Outage Rate	<u>5.7</u>	<u>6.8</u>	<u>33.3</u>
25. Forced Outage Hours	<u>42.5</u>	<u>534.8</u>	<u>21,470.0</u>

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

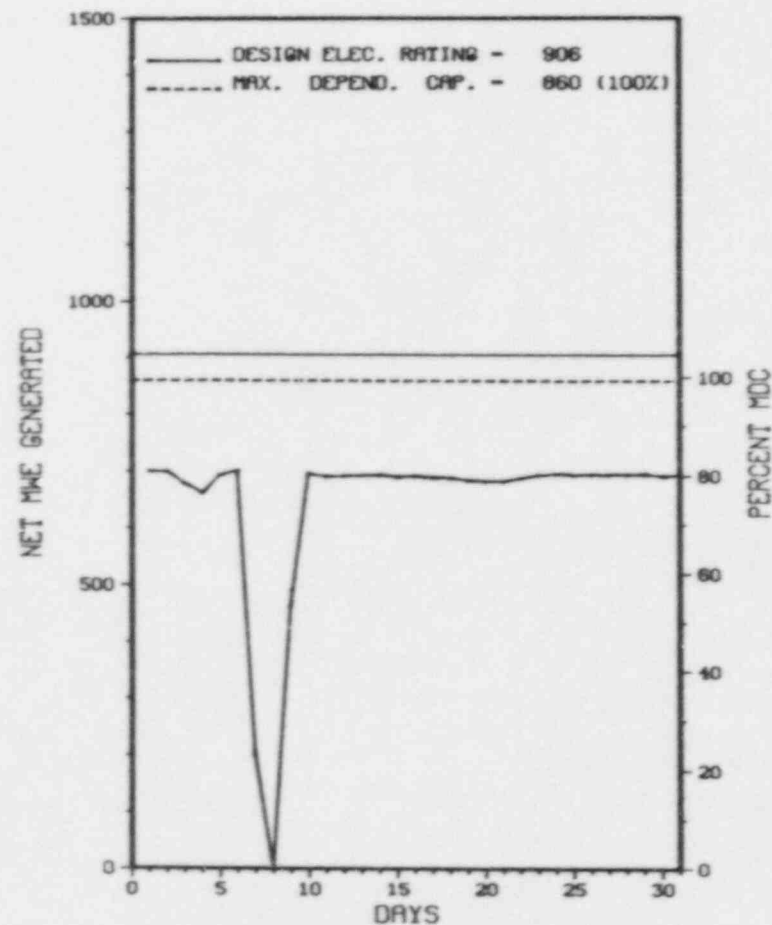
REFUELING - MARCH 11, 1988 - DURATION 26 WEEKS

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

 * DAVIS-BESSE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DAVIS-BESSE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * DAVIS-BESSE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
12	12/07/87	F	42.5	A	3	87-015	LD	PSV	THE REACTOR TRIPPED DUE TO LOSS OF INSTRUMENT AIR. THE CAUSE OF THE LOSS OF INSTRUMENT AIR WAS THE FAILURE OF VALVE IA26 TO CLOSE.

 * SUMMARY *

DAVIS-BESSE 1 INCURRED 1 FORCED OUTAGE IN DECEMBER BECAUSE OF VALVE FAILURE WHILE OPERATING AT SELF-IMPOSED RESTRICTED POWER LEVEL OF 80% DURING 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)

* DAVIS-BESSE 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 21-30, 1987 (87028): INCLUDED A REVIEW OF CIRCUMSTANCES PERTAINING TO SEVERAL PENETRATIONS IN A VITAL AREA BARRIER THAT RESULTED IN THE BARRIER HAVING INADEQUATE PENETRATION RESISTANCE. LICENSEE'S CORRECTIVE ACTIONS WERE ALSO REVIEWED. THE INSPECTION WAS PERFORMED BY ONE NRC INSPECTOR. ONE POTENTIAL VIOLATION WAS NOTED IN REFERENCE TO A PORTION OF A VITAL AREA BARRIER NOT HAVING THE PENETRATION RESISTANCE REQUIRED BY SECURITY PLAN CRITERIA. THE LICENSEE'S IMMEDIATE CORRECTIVE ACTIONS WERE ADEQUATE TO RESOLVE THE INSPECTOR'S INITIAL CONCERNS. LONG TERM CORRECTIVE ACTIONS WILL BE REVIEWED AT A LATER DATE.

ENFORCEMENT CONFERENCE ON NOVEMBER 19, 1987 (87032): INCLUDED A REVIEW AND DISCUSSION OF CIRCUMSTANCES THAT RESULTED IN A POTENTIAL VIOLATION OF THE LICENSEE'S SECURITY PLAN RELATING TO INADEQUATE PENETRATION RESISTANCE FOR A PORTION OF A VITAL AREA BARRIER. CORRECTIVE ACTIONS IMPLEMENTED WERE REVIEWED AND ENFORCEMENT OPTIONS WERE BRIEFLY DISCUSSED.

ENFORCEMENT SUMMARY

PORTIONS OF A VITAL BARRIER HAD PENETRATIONS WHICH REDUCED THE REQUIRED PENETRATION RESISTANCE OF THE BARRIER BELOW CRITERIA IDENTIFIED IN THE SECURITY PLAN.
(8702 3)

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: 01/08/88

INSPECTION REPORT NO: 88004

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
87-14	112587	122887	INOPERABLE FIRE HOSE STATION HCS30 DUE TO INADEQUATE PROCEDURAL GUIDANCE.

1. Docket: 50-275 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>23,254.3</u>
13. Hours Reactor Critical	<u>655.9</u>	<u>8,475.7</u>	<u>19,738.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>597.4</u>	<u>8,342.8</u>	<u>19,308.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,817,741</u>	<u>25,422,392</u>	<u>58,964,463</u>
18. Gross Elec Ener (MWH)	<u>606,000</u>	<u>8,717,100</u>	<u>19,850,832</u>
19. Net Elec Ener (MWH)	<u>571,256</u>	<u>8,284,201</u>	<u>18,811,702</u>
20. Unit Service Factor	<u>80.3</u>	<u>95.2</u>	<u>83.0</u>
21. Unit Avail Factor	<u>80.3</u>	<u>95.2</u>	<u>83.0</u>
22. Unit Cap Factor (MDC Net)	<u>71.6</u>	<u>88.1</u>	<u>75.4</u>
23. Unit Cap Factor (D&R Net)	<u>70.7</u>	<u>87.1</u>	<u>74.5</u>
24. Unit Forced Outage Rate	<u>19.7</u>	<u>4.8</u>	<u>3.9</u>
25. Forced Outage Hours	<u>146.6</u>	<u>417.2</u>	<u>780.7</u>

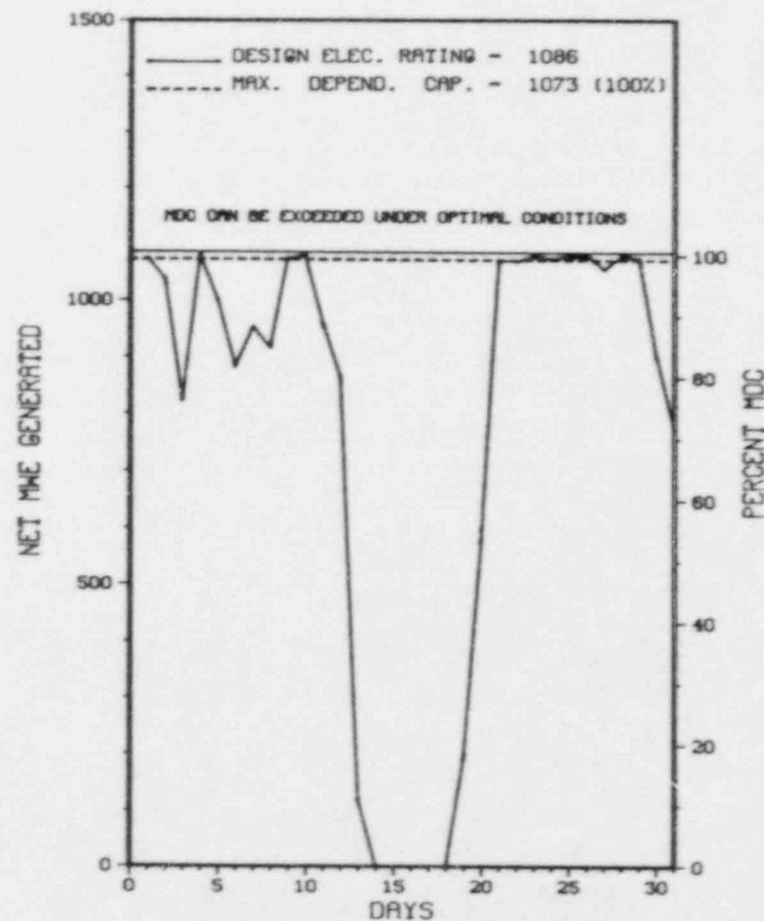
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING, MARCH 4, 1988, DURATION 60 DAYS

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

* DIABLO CANYON 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* DIABLO CANYON 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	12/13/87	F	146.6	A	3	1-87-023	JG	RLY	A LOW LOW STEAM GENERATOR REACTOR TRIP OCCURRED FOLLOWING A TRIP OF MAIN FEEDWATER PUMP (MFWP) 1-1. THE MFWP TRIP OCCURRED DURING CONTINUITY TESTS IN THE SAFEGUARDS TEST PANEL OF THE SOLID STATE PROTECTION SYSTEM (SSPS) MFWP TRIP CIRCUIT. ALTHOUGH A DEFINITE ROOT CAUSE COULD NOT BE DETERMINED, THE MOST LIKELY CAUSE WAS A MOMENTARY SHORT IN THE "PUSH TO TEST" LIGHT SOCKET. THE LAMP SOCKET WAS REPLACED. FURTHER INVESTIGATIONS ARE BEING CONDUCTED FOR THIS EVENT AND WILL BE REPORTED ON SUPPLEMENTAL LER.

* SUMMARY *

DIABLO CANYON 1 INCURRED ONE FORCED OUTAGE IN DECEMBER 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)

* DIABLO CANYON 1 *

FACILITY DATA

Report Period DEC 1987

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.....M. MENDONCA
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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON OCTOBER 14-21, 1987 (REPORT NO. 50-275/87-24) AREAS INSPECTED: SPECIAL UNANNOUNCED TEAM INSPECTION OF PLANT CHEMISTRY RELATED AREAS INCLUDING ORGANIZATION AND MANAGEMENT, QUALITY ASSURANCE, TRAINING AND QUALIFICATIONS, WATER CHEMISTRY CONTROL AND ANALYSIS, FACILITIES, SYSTEMS AFFECTING PLANT CHEMISTRY, EROSION/CORROSION CONTROL AND SURVEILLANCE, CONFIRMATORY MEASUREMENT/ RADIOACTIVE SPECIES AND POST ACCIDENT SAMPLING. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON SEPTEMBER 21-25, 1987 (REPORT NO. 50-275/87-33) AREAS INSPECTED: ANNOUNCED INSPECTION OF THE EMERGENCY PREPAREDNESS EXERCISE, ASSOCIATED CRITIQUE, AND FOLLOWUP ON OPEN ITEMS. DURING THIS INSPECTION, TWO INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON OCTOBER 4 - NOVEMBER 14, 1987 (REPORT NO. 50-275/87-38) AREAS INSPECTED: THE INSPECTION INCLUDED PLANT OPERATIONS, MAINTENANCE AND SURVEILLANCE ACTIVITIES, FOLLOWUP OF ONSITE EVENTS, OPEN ITEMS, AND LICENSEE EVENT REPORTS, AS WELL AS SELECTED INDEPENDENT INSPECTION ACTIVITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION WAS IDENTIFIED REGARDING INSUFFICIENT ACCEPTANCE CRITERIA, AND ONE DEVIATION WAS IDENTIFIED REGARDING THE RADIATION MONITORING SYSTEM.

INSPECTION STATUS - (CONTINUED)

INSPECTION SUMMARY

* INSPECTION ON DECEMBER 20, 1987 - JANUARY 23, 1988 (REPORT NO. 50-275/87-44) 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 PLANT IS IN COMMERCIAL OPERATION.

LAST IE SITE INSPECTION DATE: 12/20/87 - 01/23/88*

INSPECTION REPORT NO: 50-275/87-44+

Report Period DEC 1987

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

* DIABLO CANYON 1 *

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
37-15-L0	09-24-87	10-26-87	FAILURE TO SATISFY TECH SPEC 6.12 - HIGH RADIATION AREA LEFT UNLOCKED
87-16-L0	10-06-87	11-05-87	ENTRY INTO TECH SPEC 3.0 - FOUR SHUTDOWN BANK CONTROL RODS NOT FULLY WITHDRAWN
87-17-L0	10-22-87	11-20-87	CONTAIN VENT ISO INITIATION DUE TO VOLTAGE SPIKE
87-18-L0	10-02-87	11-19-87	FUEL HANDLING BUILDING VENT SYSTEM SHIFTED TO IODINE REMOVAL MODE
87-19-L0	10-02-87	11-19-87	FAILURE TO SATISFY TECH SPECS 4.1.3.1.1 AND 4.1.3.2 FOR INOPERABLE ROD POS DEVIATION MONITOR

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: P. BEOSEM (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): 1130

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):

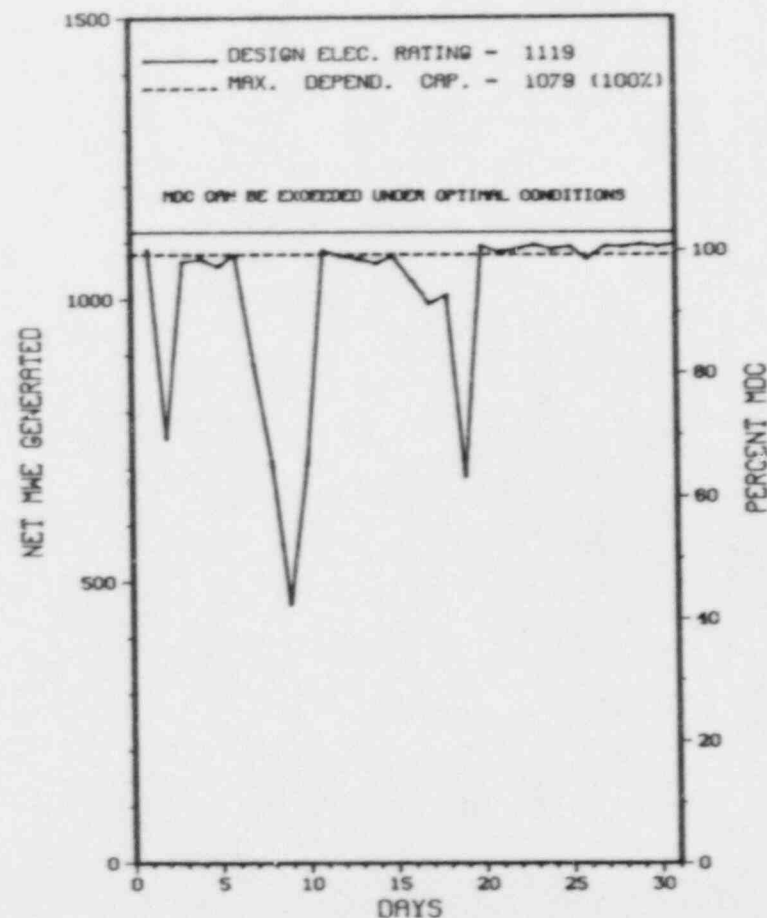
11. Reasons for Restrictions, If Any:
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>15,813.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,051.8</u>	<u>12,915.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,754.5</u>	<u>12,485.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,373,238</u>	<u>18,181,268</u>	<u>39,261,987</u>
18. Gross Elec Ener (MWH)	<u>785,200</u>	<u>6,075,200</u>	<u>12,987,699</u>
19. Net Elec Ener (MWH)	<u>745,532</u>	<u>5,715,218</u>	<u>12,263,392</u>
20. Unit Service Factor	<u>100.0</u>	<u>65.7</u>	<u>79.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>65.7</u>	<u>79.0</u>
22. Unit Cap Factor (MDC Net)	<u>92.9</u>	<u>60.5</u>	<u>71.9</u>
23. Unit Cap Factor (DER Net)	<u>89.5</u>	<u>58.3</u>	<u>69.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>17.4</u>	<u>10.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,212.2</u>	<u>1,505.4</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>			

* DIABLO CANYON 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* DIABLO CANYON 2 *

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

* SUMMARY *

DIABLO CANYON 2 OPERATED ROUTINELY IN DECEMBER WITH NO 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
	F-Admin	3-Auto Scram	Preparation of
	G-Oper Error	4-Continued	Data Entry Sheet
	C-Refueling	5-Reduced Load	Licensee Event Report
	D-Regulatory Restriction	9-Other	(LER) File (NUREG-0161)
	E-Operator Training		
	& License Examination		

* DIABLO CANYON 2 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA

COUNTY.....SAN LUIS OBISPO

DISY 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.....M. MENDOUCA

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON OCTOBER 14-21, 1987 (REPORT NO. 50-323/87-24) AREAS INSPECTED: SPECIAL UNANNOUNCED TEAM INSPECTION OF PLANT CHEMISTRY RELATED AREAS INCLUDING ORGANIZATION AND MANAGEMENT, QUALITY ASSURANCE, TRAINING AND QUALIFICATIONS, WATER CHEMISTRY CONTROL AND ANALYSIS, FACILITIES, SYSTEMS AFFECTING PLANT CHEMISTRY, EROSION/CORROSION CONTROL AND SURVEILLANCE, CONFIRMATORY MEASUREMENT/ RADIOACTIVE SPECIES AND POST ACCIDENT SAMPLING. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON SEPTEMBER 21-25, 1987 (REPORT NO. 50-323/87-33) AREAS INSPECTED: ANNOUNCED INSPECTION OF THE EMERGENCY PREPAREDNESS EXERCISE, ASSOCIATED CRITIQUE, AND FOLLOWUP ON OPEN ITEMS. DURING THIS INSPECTION, TWO INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON OCTOBER 4 - NOVEMBER 14, 1987 (REPORT NO. 50-323/87-38) AREAS INSPECTED: THE INSPECTION INCLUDED ROUTINE INSPECTION OF PLANT OPERATIONS, MAINTENANCE AND SURVEILLANCE ACTIVITIES, FOLLOWUP OF ONSITE EVENTS, OPEN ITEMS, AND LICENSEE EVENT REPORTS, AS WELL AS SELECTED INDEPENDENT INSPECTION ACTIVITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ON VIOLATION WAS IDENTIFIED REGARDING INSUFFICIENT ACCEPTANCE CRITERIA, AND ONE DEVIATION WAS IDENTIFIED REGARDING THE

INSPECTION SUMMARY

RADIATION MONITORING SYSTEM.

+ INSPECTION ON NOVEMBER 9-13, 1987 (REPORT NO. 50-323/87-40) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION ON PREVIOUS INSPECTION FINDINGS, EXTERNAL AND INTERNAL EXPOSURE CONTROL; ALARA; REVIEW OF LICENSEE AUDITS AND REPORTS; AND FACILITY TOURS. DURING THIS INSPECTION, VARIOUS PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 12-20, 1987 (REPORT NO. 50-323/87-41) AREAS INSPECTED: AN ANNOUNCED INSPECTION BY ONE REGIONALLY BASED INSPECTOR OF VARIOUS VITAL AREAS AND EQUIPMENT IN THE PLANT, AND FOLLOWUP OF ENFORCEMENT AND OPEN ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 15 - DECEMBER 19, 1987 (REPORT NO. 50-323/87-43) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 14-18, 1987 (REPORT NO. 50-323/87-44) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 20, 1987 - JANUARY 23, 1988 (REPORT NO. 50-323/87-45) 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 PLANT IS IN COMMERCIAL OPERATION.

LAST IE SITE INSPECTION DATE: 12/20/87 - 01/23/88+

INSPECTION REPORT NO: 50-323/87-45+

Report Period DEC 1987

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

* DIABLO CANYON 2 *

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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87-22-10	10-12-87	11-10-87	FUEL HANDLING BUILDING VENT SYSTEM SHIFTED TO IODINE REMOVAL MODE
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1. Docket: 50-237 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWh): 2527

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

6. Design Electrical Rating (Net MWe): 794

7. Maximum Dependable Capacity (Gross MWe): 810

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>744.0</u>	<u>8,760.0</u>	<u>154,584.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>5,763.7</u>	<u>116,572.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,345.3</u>	<u>111,093.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,620,239</u>	<u>11,103,781</u>	<u>228,018,823</u>
18. Gross Elec Ener (MWH)	<u>524,345</u>	<u>3,553,892</u>	<u>72,939,970</u>
19. Net Elec Ener (MWH)	<u>500,562</u>	<u>3,342,347</u>	<u>68,936,178</u>
20. Unit Service Factor	<u>100.0</u>	<u>61.0</u>	<u>71.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>61.0</u>	<u>71.9</u>
22. Unit Cap Factor (MDC Net)	<u>87.2</u>	<u>49.4</u>	<u>57.8</u>
23. Unit Cap Factor (DER Net)	<u>84.7</u>	<u>48.1</u>	<u>56.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>8.5</u>	<u>11.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>496.3</u>	<u>7,157.0</u>

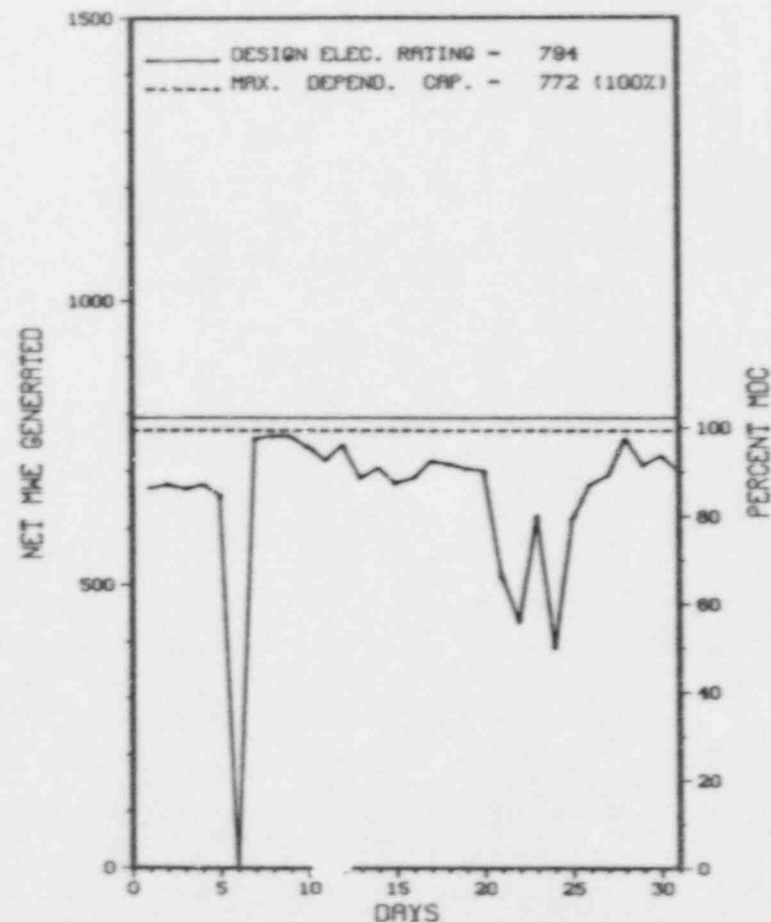
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
DUAL UNIT OUTAGE - MAY, 1988 - ONE WEEK DURATION

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

* DRESDEN 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DRESDEN 2



DECEMBER 1987

Report Period DEC 1987

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

***** DRESDEN II OPERATED ROUTINELY IN DECEMBER WITH NO POWER OUTAGES.

* 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)

* DRESDEN 2 *

FACILITY DATA

Report Period DEC 1987

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. GROTENHUIS
DOCKET NUMBER.....50-237
LICENSE & DATE ISSUANCE....DPR-19, DECEMBER 22, 1969
PUBLIC DOCUMENT ROOM.....MORRIS PUBLIC LIBRARY
604 LIBERTY STREET
MORRIS, ILLINOIS 60450

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 2-6 AND 23-24, 1987 (87036; 87035): ROUTINE, UNANNOUNCED INSPECTION OF PORTIONS OF THE LICENSEE'S RADIATION PROTECTION PROGRAM, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS, EXTERNAL AND INTERNAL EXPOSURE CONTROLS AND ASSESSMENT, CONTROL OF RADIOACTIVE MATERIALS, AUDITS, PERSONAL CONTAMINATION EVENTS, AND ACTIONS TAKEN FOR PREVIOUS INSPECTION FINDINGS. A PRELIMINARY REVIEW OF ALLEGATIONS CONCERNING CONTROL OF RADIOACTIVE MATERIALS WAS ALSO PERFORMED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION DURING THE PERIOD OF JULY 24 THROUGH OCTOBER 22, 1987 (87026; 87025): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS ON PREVIOUS INSPECTION ITEMS, OPERATIONAL SAFETY VERIFICATION, FOLLOWUP OF EVENTS, MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, LICENSEE EVENT REPORT FOLLOWUP, MANAGEMENT MEETING OF AUGUST 18, 1987, AND RECENT MANAGEMENT (CECO) CHANGES. OF THE EIGHT AREAS INSPECTED, TWO VIOLATIONS WERE IDENTIFIED IN ONE AREA, OPERATIONAL SAFETY VERIFICATION (FAILURES TO MEET TECHNICAL SPECIFICATION LIMITS AND TO OBSERVE REQUIREMENTS OF AN ADMINISTRATIVE PROCEDURE). NO OTHER VIOLATIONS OR DEVIATIONS WERE DOCUMENTED WITHIN THE OTHER SEVEN AREAS.

DRESDEN, LASALLE, QUAD CITIES, ZION

INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87023; 87023; 87027; 87028): SPECIAL ANNOUNCED CLOSURE INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION SUMMARY

INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATION (TS) 3.1.A.1 STATES IN PART, THAT "THE MINIMUM NUMBER OF TRIP SYSTEMS AND INSTRUMENT CHANNELS THAT MUST BE OPERABLE FOR EACH POSITION OF THE REACTOR MODE SWITCH SHALL BE AS GIVEN IN TABLE 3.1.1." CONTRARY TO THE ABOVE, ON AUGUST 18, 1987, UNIT 2'S REACTOR MODE SWITCH WAS IN THE "RUN" POSITION AT A 94% POWER LEVEL WITH ONLY 1 AVERAGE POWER RANGE MONITOR (APRM) DOWNSCALE/INTERMEDIATE RANGE MONITOR (IRM) HIGH HIGH INOPERABLE TRIP FUNCTION (IRM-15/APRM-5) OPERABLE IN RPS CHANNEL B. HAVING ONLY ONE SUCH TRIP FUNCTION OPERABLE WHILE IN THE "RUN" MODE, AND NOT TAKING THE APPROPRIATE ACTIONS REQUIRED BY TS TABLE 3.1.1 IS IN VIOLATION OF TS TABLE 3.1.1, WHICH REQUIRES A MINIMUM OF TWO OPERABLE APRM DOWNSCALE/IRM HIGH HIGH INOPERABLE TRIP FUNCTIONS PER RPS CHANNEL. THIS CONDITION EXISTED FOR ABOUT 9 HOURS. TECHNICAL SPECIFICATION 6.2.A.14 REQUIRES THAT "DETAILED WRITTEN PROCEDURES INCLUDING APPLICABLE CHECKOFF LISTS COVERING ITEMS," SUCH AS, "WORKING HOURS OF THE SHIFT ENGINEER, STATION CONTROL ROOM ENGINEER, SHIFT FOREMAN, NUCLEAR STATION OPERATOR... SHALL BE PREPARED, APPROVED AND ADHERED TO." 10 CFR 50, APPENDIX B, CRITERION V, AS IMPLEMENTED BY COMMONWEALTH EDISON COMPANY, TOPICAL REPORT CE-1-1A, "QUALITY ASSURANCE PROGRAM FOR NUCLEAR GENERATING STATIONS," REQUIRES THAT ACTIVITIES AFFECTING QUALITY, SUCH AS NUCLEAR STATION OPERATOR WORKING HOURS, SHALL BE PRESCRIBED AND ACCOMPLISHED BY APPROPRIATE PROCEDURES. CONTRARY TO THE ABOVE, DURING AUGUST, 1987, NUCLEAR STATION OPERATORS FAILED TO ADHERE TO THE INSTRUCTIONS CONTAINED WITHIN THE ADMINISTRATIVE PROCEDURE DAP 7-1, "OPERATIONS DEPARTMENT ORGANIZATION," FOR CONTROLLING OVERTIME, CONSECUTIVE HOURS WORKING ON SHIFT AND THE HOURS ON SHIFT DURING A 24 HOUR, 48 HOUR AND 72 HOUR PERIOD, INCLUDING ONE OPERATOR WHO WORKED 96 HOURS DURING A SEVEN DAY PERIOD WITHOUT MANAGEMENT'S APPROVAL. TECHNICAL SPECIFICATION 6.2.A.14 REQUIRES THAT "DETAILED WRITTEN PROCEDURES INCLUDING APPLICABLE CHECKOFF LISTS COVERING ITEMS," SUCH AS, "WORKING HOURS OF THE SHIFT ENGINEER, STATION CONTROL ROOM ENGINEER, SHIFT FOREMAN, NUCLEAR STATION OPERATOR... SHALL BE PREPARED, APPROVED AND ADHERED TO." 10 CFR 50, APPENDIX B, CRITERION V, AS IMPLEMENTED BY COMMONWEALTH EDISON COMPANY, TOPICAL REPORT CE-1-1A, "QUALITY ASSURANCE PROGRAM FOR NUCLEAR GENERATING STATIONS," REQUIRES THAT ACTIVITIES AFFECTING QUALITY, SUCH AS NUCLEAR STATION OPERATOR WORKING HOURS, SHALL BE PRESCRIBED AND ACCOMPLISHED BY APPROPRIATE PROCEDURES. CONTRARY TO THE ABOVE, DURING AUGUST, 1987, NUCLEAR STATION OPERATORS FAILED TO ADHERE TO THE INSTRUCTIONS CONTAINED WITHIN THE ADMINISTRATIVE PROCEDURE DAP 7-1, "OPERATIONS DEPARTMENT ORGANIZATION," FOR CONTROLLING OVERTIME, CONSECUTIVE HOURS WORKING ON SHIFT AND THE HOURS ON SHIFT DURING A 24 HOUR, 48 HOUR AND 72 HOUR PERIOD, INCLUDING ONE OPERATOR WHO WORKED 96 HOURS DURING A SEVEN DAY PERIOD WITHOUT MANAGEMENT'S APPROVAL. (8702 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

Report Period DEC 1987

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

* D R E S D E N 2 *

OTHER ITEMS

NONE

PLANT STATUS:

UNIT OPERATING ROUTINELY AT APPROXIMATELY FULL 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

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

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1. Docket: 50-249 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>144,169.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,208.7</u>	<u>103,408.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,595.7</u>	<u>98,847.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,684,851</u>	<u>14,571,519</u>	<u>201,375,522</u>
18. Gross Elec Ener (MWH)	<u>550,266</u>	<u>4,626,733</u>	<u>65,031,242</u>
19. Net Elec Ener (MWH)	<u>527,408</u>	<u>4,395,502</u>	<u>61,577,820</u>
20. Unit Service Factor	<u>100.0</u>	<u>75.3</u>	<u>68.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>75.3</u>	<u>68.6</u>
22. Unit Cap Factor (MDC Net)	<u>91.7</u>	<u>64.9</u>	<u>55.3</u>
23. Unit Cap Factor (DER Net)	<u>89.3</u>	<u>63.2</u>	<u>53.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>19.8</u>	<u>12.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,631.7</u>	<u>9,463.9</u>

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

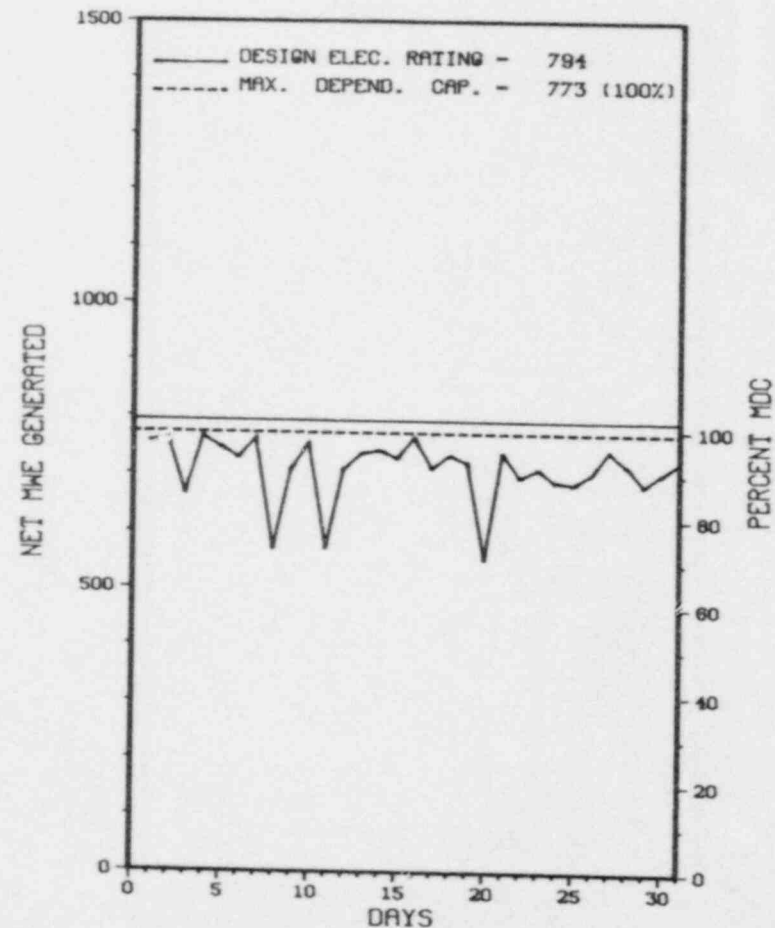
REFUELING 3/15/88, DURATION 15 WEEKS

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

* DRESDEN 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DRESDEN 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* DRESDEN 3 *

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

* SUMMARY *

DRESDEN III OPERATED ROUTINELY IN DECEMBER WITH NO OUTAGES OR
SIGNIFICANT 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 3 *

FACILITY DATA

Report Period DEC 1987

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 ENER 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 ON NOVEMBER 2-6 AND 23-24, 1987 (87036; 87035): ROUTINE, UNANNOUNCED INSPECTION OF PORTIONS OF THE LICENSEE'S RADIATION PROTECTION PROGRAM, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS, EXTERNAL AND INTERNAL EXPOSURE CONTROLS AND ASSESSMENT, CONTROL OF RADIOACTIVE MATERIALS, AUDITS, PERSONAL CONTAMINATION EVENTS, AND ACTIONS TAKEN FOR PREVIOUS INSPECTION FINDINGS. A PRELIMINARY REVIEW OF ALLEGATIONS CONCERNING CONTROL OF RADIOACTIVE MATERIALS WAS ALSO PERFORMED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION DURING THE PERIOD OF JULY 24 THROUGH OCTOBER 22, 1987 (87026; 87025): ROUTINE, UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTORS ON PREVIOUS INSPECTION ITEMS, OPERATIONAL SAFETY VERIFICATION, FOLLOWUP OF EVENTS, MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, LICENSEE EVENT REPORT FOLLOWUP, MANAGEMENT MEETING OF AUGUST 18, 1987, AND RECENT MANAGEMENT (CECO) CHANGES. OF THE EIGHT AREAS INSPECTED, TWO VIOLATIONS WERE IDENTIFIED IN ONE AREA, OPERATIONAL SAFETY VERIFICATION (FAILURES TO MEET TECHNICAL SPECIFICATION LIMITS AND TO OBSERVE REQUIREMENTS OF AN ADMINISTRATIVE PROCEDURE). NO OTHER VIOLATIONS OR DEVIATIONS WERE DOCUMENTED WITHIN THE OTHER SEVEN AREAS.

DRESDEN, LASALLE, QUAD CITIES, ZION

INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87023; 87023; 87027; 87028): SPECIAL, ANNOUNCED CLOSEOUT INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION STATUS - (CONTINUED)

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X              DRESDEN 3              X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

NONE

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

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

1. Docket: 50-331 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

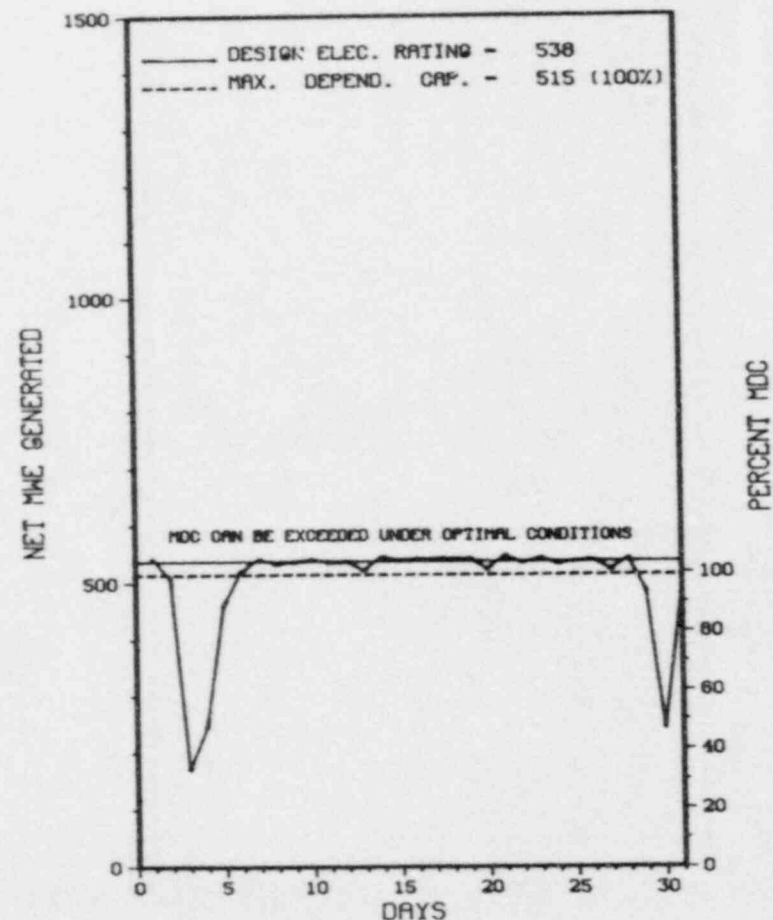
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>113,208.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>5,668.3</u>	<u>80,313.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>172.8</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,514.8</u>	<u>78,255.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,145,032</u>	<u>7,955,119</u>	<u>100,037,281</u>
18. Gross Elec Ener (MWH)	<u>392,852</u>	<u>2,701,743</u>	<u>33,559,828</u>
19. Net Elec Ener (MWH)	<u>371,829</u>	<u>2,540,837</u>	<u>31,443,328</u>
20. Unit Service Factor	<u>100.0</u>	<u>63.0</u>	<u>69.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>63.0</u>	<u>69.1</u>
22. Unit Cap Factor (MDC Net)	<u>97.0</u>	<u>56.3</u>	<u>53.9</u>
23. Unit Cap Factor (DER Net)	<u>92.9</u>	<u>53.9</u>	<u>51.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>18.3</u>	<u>15.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,232.5</u>	<u>13,917.7</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

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

 * DUANE ARNOLD *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DUANE ARNOLD



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * DUANE ARNOLD *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	12/03/87	F	0.0	B	5				MSIV LEAKAGE CONTROL SYSTEM VALVE LINEUP CHANGE TO PREVENT LEAKAGE CONTROL SYSTEM FROM PRESSURIZING.
2	12/30/87	F	0.0	A	5				WENT DOWN IN POWER TO DO REPAIRS ON THE STANDBY GAS TREATMENT SYSTEM.

 * SUMMARY *

 DUANE ARNOLD INCURRED 2 POWER REDUCTIONS IN DECEMBER 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)

* DUANE ARNOLD *

FACILITY DATA

Report Period DEC 1987

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.....J. WEIBE
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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON SEPTEMBER 1 THROUGH OCTOBER 19, 1987 (87026): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCE, LICENSEE EVENT REPORTS, REVIEW AND FOLLOWUP OF VENDOR INFORMATION, AND GENERIC LETTER FOLLOWUP. ONE VIOLATION IN THE AREA OF MAINTENANCE AND ONE VIOLATION (NOTICE OF VIOLATION NOT ISSUED) IN THE AREA OF OPERATIONAL SAFETY WERE IDENTIFIED. THE VIOLATION IN THE AREA OF MAINTENANCE IS SIGNIFICANT BECAUSE IT REPRESENTS CONTINUING PROBLEMS IN THE AREA OF QUALITY ASSURANCE AND RESULTED IN THE FAILURE OF A SAFETY SYSTEM DURING A TEST FOR OPERABILITY THE SECOND EXAMPLE OF THE ABOVE VIOLATION WAS OF MINOR SIGNIFICANCE.

INSPECTION ON OCTOBER 26-30, 1987 (87031): ROUTINE, UNANNOUNCED INSPECTION OF OPERATIONAL RADIATION PROTECTION ACTIVITIES, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS; TRAINING AND QUALIFICATIONS; EXPOSURE CONTROLS; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS AND MONITORING; MAINTAINING EXPOSURES ALARA; AND STATUS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS. IN ADDITION, THE INSPECTOR PERFORMED INDEPENDENT DIRECT RADIATION AND CONTAMINATION SURVEYS AND ACCOMPANIED AN AUXILIARY OPERATOR ON HIS ROUNDS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON OCTOBER 26-28, 1987 (87029): ROUTINE, ANNOUNCED INSPECTION OF THE DUANE ARNOLD ENERGY CENTER'S ANNUAL EMERGENCY PREPAREDNESS EXERCISE INVOLVING OBSERVATIONS BY THREE NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. THE INSPECTION WAS CONDUCTED BY TWO NRC INSPECTORS AND ONE CONSULTANT. NO VIOLATIONS, DEFICIENCIES, OR DEVIATIONS WERE IDENTIFIED AS A RESULT OF THE INSPECTION.

INSPECTION ON SEPTEMBER 28 THROUGH OCTOBER 23, 1987 (87028): ROUTINE, ANNOUNCED SAFETY INSPECTION OF ACTION ON PREVIOUS

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* DUANE ARNOLD *

INSPECTION SUMMARY

INSPECTION ITEMS (92701, 92702, AND 37700), LICENSEE ACTION IN RESPONSE TO INSPECTION ITEMS 85029-02 AND 85035-01 (92702), NON-LICENSED STAFF TRAINING AND QUALIFICATIONS (41400), AND CORE PERFORMANCE STARTUP AND SURVEILLANCE TESTING CYCLE 9 - (72700, 61702, 61705, 61706, AND 61707). OF THE AREAS INSPECTED, ONE DEVIATION FROM A COMMITMENT, ONE OPEN ITEM, AND ONE UNRESOLVED ITEM WAS IDENTIFIED. NO VIOLATIONS WERE FOUND. FIVE PREVIOUSLY-IDENTIFIED ITEMS WERE CLOSED.

ENFORCEMENT SUMMARY

10 CFR PARTS 50, APPENDIX B, CRITERION VIII STATES, IN PART: MEASURES SHALL BE ESTABLISHED TO PREVENT THE USE OF INCORRECT MATERIAL, PARTS, AND COMPONENTS. DUANE ARNOLD ENERGY CENTER, ADMINISTRATIVE CONTROL PROCEDURE 1408.1 REVISION 11, "CORRECTIVE MAINTENANCE" DATED FEBRUARY 18, 1987, STATES IN SECTION 6.3.24 THAT MATERIALS AND PARTS MUST BE VERIFIED, TO MEET THE REQUIRED SPECIFICATIONS FOR THEIR INTENDED USE, BY CHECKING THE QUALITY PART REPORT TAG OR COMPARING THE DESIGN SPECIFICATION WITH PURCHASING INFORMATION. DUANE ARNOLD ENERGY CENTER, ADMINISTRATIVE CONTROL PROCEDURE 1405.4 REVISION 4, "MATERIAL REQUESTS AND WAREHOUSE ISSUES" DATED FEBRUARY 18, 1987, STATES IN SECTION 5.2 THAT THE QUALITY LEVEL OF MATERIAL SHALL BE CONSISTENT WITH THE QUALITY LEVEL OF THE WORK REQUEST UNLESS THE EXCEPTION IS FULLY DOCUMENTED BY ATTACHING AN APPROVED MATERIAL REQUEST FOR THE INCONSISTENT QUALITY LEVEL MATERIAL. CONTRARY TO THE ABOVE, DURING THE PERIOD JULY 10-14, 1987, THE REPLACEMENT DIAPHRAGM FOR THE HPCI TURBINE LUBE OIL PRESSURE CONTROL VALVE WAS NOT VERIFIED TO MEET THE REQUIRED SPECIFICATIONS BY COMPARING THE DESIGN SPECIFICATION (VENDOR MANUAL) WITH PURCHASING INFORMATION. NO QUALITY PART REPORT TAG WAS PRESENT BECAUSE THE REPLACEMENT DIAPHRAGM WAS A QUALITY LEVEL IV PART. IN ADDITION, THE WAREHOUSE ISSUED THE REPLACEMENT DIAPHRAGM EVEN THOUGH THE QUALITY LEVEL (IV) WAS INCONSISTENT WITH THE QUALITY LEVEL (I) OF THE WORK REQUEST. NO EXCEPTION WAS DOCUMENTED BY ATTACHING AN APPROVED MATERIAL REQUEST. AS A RESULT, THE MEASURES ESTABLISHED BY THE ADMINISTRATIVE CONTROL PROCEDURES DID NOT PREVENT THE USE OF AN INCORRECT PART.

(8702 4)

NOTICE OF VIOLATION TO FOLLOW FOR THIS VIOLATION.
(8702 5)

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: 02/29/88

Report Period DEC 1987

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

* DUANE ARNOLD *

INSPECTION REPORT NO: 88004

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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87-30      121587      122287      ACTUATION OF STANDBY FILTER UNIT DUE TO DOWNSCALE TRIP OF RADIATION MONITOR
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1. Docket: 50-348 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 856

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>744.0</u>	<u>8,760.0</u>	<u>88,392.0</u>
13. Hours Reactor Critical	<u>541.9</u>	<u>8,307.2</u>	<u>65,216.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,650.7</u>
15. Hrs Generator On-Line	<u>499.8</u>	<u>8,203.1</u>	<u>63,825.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,235,697</u>	<u>21,095,651</u>	<u>162,423,317</u>
18. Gross Elec Ener (MWH)	<u>396,554</u>	<u>6,804,564</u>	<u>52,066,336</u>
19. Net Elec Ener (MWH)	<u>369,520</u>	<u>6,444,862</u>	<u>49,169,196</u>
20. Unit Service Factor	<u>67.2</u>	<u>93.6</u>	<u>72.2</u>
21. Unit Avail Factor	<u>67.2</u>	<u>93.6</u>	<u>72.2</u>
22. Unit Cap Factor (MDC Net)	<u>60.2</u>	<u>89.2</u>	<u>69.1*</u>
23. Unit Cap Factor (DER Net)	<u>59.9</u>	<u>88.7</u>	<u>67.1</u>
24. Unit Forced Outage Rate	<u>32.8</u>	<u>3.8</u>	<u>9.7</u>
25. Forced Outage Hours	<u>244.2</u>	<u>322.6</u>	<u>6,823.1</u>

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

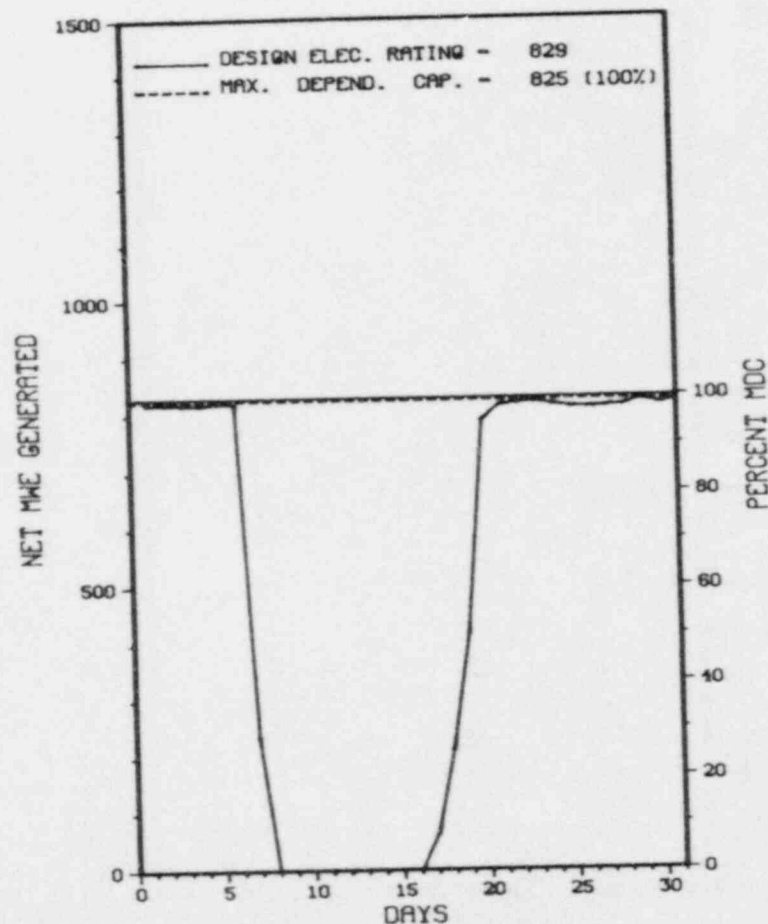
REFUEL/MAINTENANCE, MARCH 1988, 7 WEEKS DURATION.

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

* FARLEY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FARLEY 1



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * FARLEY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
012	12/07/87	F	244.2	D	1		ED	CON	THE UNIT WAS SHUT DOWN TO RE-TERMINATE THE REACTOR VESSEL HEAD VENT VALVES IN ACCORDANCE WITH APPROVED ENVIRONMENTAL QUALIFICATION (EQ) DESIGN. IN ADDITION, DESIGNATED INSTRUMENT SPLICES AND CONNECTIONS AT TERMINAL BLOCKS INSIDE CONTAINMENT WERE REPLACED WITH ENVIRONMENTALLY QUALIFIED SPLICES TO PREVENT ERRONEOUS INSTRUMENT READINGS RESULTING FROM INCREASED LEAKAGE CURRENTS DURING ACCIDENT CONDITIONS.

 * SUMMARY *

 FARLEY 1 EXPERIENCED 1 POWER OUTAGE IN DECEMBER 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)

* FARLEY 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 11 - NOVEMBER 16 (87-29): THIS ROUTINE, ONSITE INSPECTION INVOLVED A REVIEW OF: SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, AND ENGINEERED SAFETY SYSTEMS INSPECTIONS. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO MAINTAIN ADEQUATE RECORDS AND FAILURE TO FOLLOW APPROVED PROCEDURES.

INSPECTION NOVEMBER 2-6 (87-31): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF EMERGENCY DIESEL GENERATOR SURVEILLANCE TESTING AND RELIABILITY REPORTING, AND IE BULLETIN 85-03, "MOTOR-OPERATED VALVE COMMON MODE FAILURE DURING PLANT TRANSIENTS DUE TO IMPROPER SWITCH SETTINGS." ONE VIOLATION WAS IDENTIFIED - INCORRECT PROCEDURE AND INCOMPLETE EMERGENCY DIESEL TEST DATA LOG.

INSPECTION DECEMBER 7-11 (87-34): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED: SECURITY PLAN AND IMPLEMENTING PROCEDURES, MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM, SECURITY PROGRAM AUDIT, LIGHTING, ACCESS CONTROL - PERSONNEL AND PACKAGES, COMMUNICATIONS, PERSONNEL TRAINING AND QUALIFICATION, AND SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

CONTRARY TO TS 6.8.1 AND FARLEY HEALTH PHYSICS MANUAL PARAGRAPH 4.1.1.7, ON OCTOBER 20, 1987, THE INSPECTOR OBSERVED A LICENSEE EMPLOYEE PERFORMING WORK INSIDE A CONTROLLED AREA WITHOUT WEARING THE PROTECTIVE CLOTHING REQUIRED BY RWP 0-87-0001A. CONTRARY TO

ENFORCEMENT SUMMARY

TS 6.8.1 AND FARLEY HEALTH PHYSICS MANUAL PARAGRAPH 4.1.1.7, ON OCTOBER 20, 1987, THE INSPECTOR OBSERVED A LICENSEE EMPLOYEE PERFORMING WORK INSIDE A CONTROLLED AREA WITHOUT WEARING THE PROTECTIVE CLOTHING REQUIRED BY RWP 0-87-0001A. 10 CFR 50.59 CHANGES, TESTS AND EXPERIMENTS, STATES IN PARTS (A)(1), "THE HOLDER OF A LICENSE ... MAY MAKE CHANGES IN THE FACILITY AS DESCRIBED IN THE SAFETY ANALYSIS REPORT ... WITHOUT COMMISSION APPROVAL, UNLESS THE PROPOSED CHANGE, TEST OR EXPERIMENT INVOLVES A CHANGE IN THE TECH SPEC INCORPORATED IN THE LICENSE OR AN UNREVIEWED SAFETY QUESTION; AND (B)(1) "THE LICENSEE SHALL MAINTAIN RECORDS OF THE CHANGES IN THE FACILITY ... THESE RECORDS MUST INCLUDE A WRITTEN SAFETY EVALUATION WHICH PROVIDES THE BASES FOR THE DETERMINATION THAT THE CHANGE DOES NOT INVOLVE AN UNREVIEWED SAFETY QUESTION." CONTRARY TO THE ABOVE, ON OCTOBER 9, 1987, THE HIGH VIBRATION TRIP OF THE A REACTOR FEED PUMP TURBINE, DESCRIBED IN FSAR SECTION 10.8.3, WAS DISABLED WITHOUT A WRITTEN SAFETY EVALUATION TO DETERMINE THAT THE CHANGE DOES NOT INVOLVE AN UNREVIEWED SAFETY QUESTION. ALSO CONTRARY TO THE ABOVE, SINCE 1979, THE REACTOR RECIRCULATION SPEED CONTROL SYSTEM, DESCRIBED IN FSAR SECTION 14.5.3, HAS BEEN ROUTINELY OPERATED WITH THE SPEED LIMITERS DISABLED WITHOUT A WRITTEN SAFETY EVALUATION TO DETERMINE THAT THE CHANGE DOES NOT INVOLVE AN UNREVIEWED SAFETY QUESTION.
(8702 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 7-11, 1987 +

INSPECTION REPORT NO: 50-348/87-34 +

Report Period DEC 1987

REPORTS FROM LICENSEE

* FARLEY 1 *

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NUMBER    DATE OF    DATE OF    SUBJECT
EVENT     REPORT
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87-021    10/29/87   11/30/87   FIRE DAMPERS INOPERABLE DUE TO FAILURE TO CLOSE WITH AIR FLOW
87-022    11/06/87   12/02/87   UNAUTHORIZED INDIVIDUAL ENTERED THE MAIN CONTROL ROOM
87-023    11/27/87   12/22/87   FIRE DAMPERS INOPERABLE DUE TO FAILURE TO CLOSE WITH AIR FLOW
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1. Docket: 50-364 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWh): 2652

5. Nameplate Rating (Gross MWe): 860

6. Design Electrical Rating (Net MWe): 829

7. Maximum Dependable Capacity (Gross MWe): 865

8. Maximum Dependable Capacity (Net MWe): 824

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>744.0</u>	<u>8,760.0</u>	<u>56,305.0</u>
13. Hours Reactor Critical	<u>295.8</u>	<u>6,537.7</u>	<u>47,888.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>138.4</u>
15. Hrs Generator On-Line	<u>173.0</u>	<u>6,397.8</u>	<u>47,248.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>240,584</u>	<u>16,025,282</u>	<u>120,952,120</u>
18. Gross Elec Ener (MWH)	<u>66,832</u>	<u>5,193,902</u>	<u>39,203,094</u>
19. Net Elec Ener (MWH)	<u>49,042</u>	<u>4,902,626</u>	<u>37,151,738</u>
20. Unit Service Factor	<u>23.3</u>	<u>73.0</u>	<u>83.9</u>
21. Unit Avail Factor	<u>23.3</u>	<u>73.0</u>	<u>83.9</u>
22. Unit Cap Factor (MDC Net)	<u>8.0</u>	<u>67.9</u>	<u>80.1</u>
23. Unit Cap Factor (DER Net)	<u>8.0</u>	<u>67.5</u>	<u>79.6</u>
24. Unit Forced Outage Rate	<u>72.0</u>	<u>11.3</u>	<u>5.4</u>
25. Forced Outage Hours	<u>443.8</u>	<u>818.1</u>	<u>2,690.4</u>

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

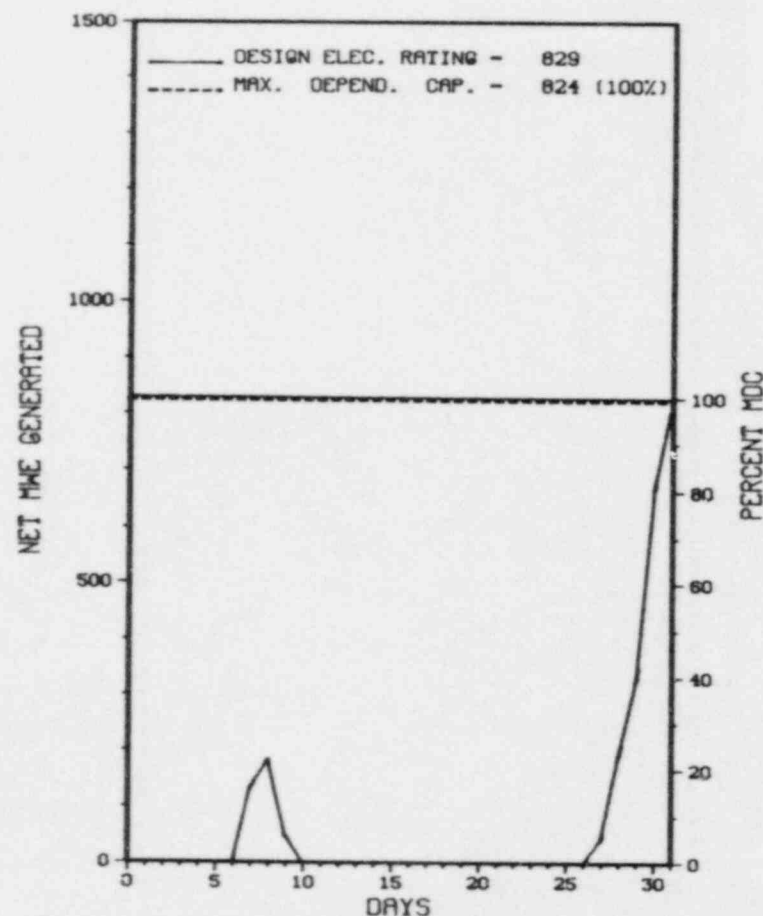
NONE

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

* FARLEY 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FARLEY 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* FARLEY 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
007	10/03/87	S	98.3	C	4				THE CYCLE 5-6 REFUELING OUTAGE CONTINUED FROM 10-3-87.
008	12/05/87	S	28.9	B	1				THE GENERATOR WAS TAKEN OFF-LINE FOR THE TURBINE OVERSPEED TRIP TEST.
009	12/06/87	F	7.8	A	1				THE MALFUNCTION IN THE TURBINE DIGITAL ELECTRO-HYDRAULIC (DEH) CONTROL UNIT CAUSED THE GOVERNOR VALVES TO GO CLOSED WHILE THE UNIT WAS PRODUCING 108 MWE. THE OPERATORS MANUALLY TOOK THE GENERATOR OFF-LINE. PROVISIONS WERE ADDED TO THE SYSTEM OPERATING PROCEDURE INSTRUCTING THE OPERATOR TO ENSURE THAT THE DEH CONTROL UNIT IS OPERATING PROPERLY.
010	12/09/87	F	436.0	B	1	87-010-00	BP	PSP	PRESSURE BOUNDARY LEAKAGE WAS IDENTIFIED ON THE REACTOR COOLANT SYSTEM (RCS) LOOP B COLD LEG SAFETY INJECTION LINE BETWEEN A CHECK VALVE AND THE RCS LOOP. THE LEAK RESULTED FROM A THROUGH WALL DEFECT IN A WELDED JOINT BETWEEN A LONG RADIUS ELBOW AND A STRAIGHT SECTION OF PIPE. PRELIMINARY RESULTS OF THE METALLURGICAL EVALUATION OF THE FAILED JOINT HAVE IDENTIFIED HIGH CYCLE FATIGUE AS THE MECHANISM FOR CRACK INITIATION AND PROPAGATION. FURTHER INVESTIGATION AND ANALYSIS IS BEING PERFORMED TO DETERMINE THE SOURCE OF HIGH CYCLE FATIGUE. NO OTHER PROBLEMS WERE DETECTED ON SIMILAR PIPING WELDS IN THE COLD LEG INJECTION LINES OF EITHER UNIT.

* SUMMARY *

FARLEY 2 ENTERED THE MONTH IN A SCHEDULED REFUELING OUTAGE AND SUBSEQUENTLY EXPERIENCED 3 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)

* FARLEY 2 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

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 & 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.....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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 11 - NOVEMBER 16 (87-29): THIS ROUTINE, ONSITE INSPECTION INVOLVED A REVIEW OF: SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, AND ENGINEERED SAFETY SYSTEMS INSPECTIONS. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO MAINTAIN ADEQUATE RECORDS AND FAILURE TO FOLLOW APPROVED PROCEDURES.

INSPECTION NOVEMBER 2-6 (87-31): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF EMERGENCY DIESEL GENERATOR SURVEILLANCE TESTING AND RELIABILITY REPORTING, AND IE BULLETIN 85-03, "MOTOR-OPERATED VALVE COMMON MODE FAILURE DURING PLANT TRANSIENTS DUE TO IMPROPER SWITCH SETTINGS." ONE VIOLATION WAS IDENTIFIED - INCORRECT PROCEDURE AND INCOMPLETE EMERGENCY DIESEL TEST DATA LOG.

INSPECTION DECEMBER 7-11 (87-34): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED: SECURITY PLAN AND IMPLEMENTING PROCEDURES, MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM, SECURITY PROGRAM AUDIT, LIGHTING, ACCESS CONTROL - PERSONNEL AND PACKAGES, COMMUNICATIONS, PERSONNEL TRAINING AND QUALIFICATION, AND SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

LICENSEE CONTINUES TENDON FIELD ANCHORS INSPECTION.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

PLANT STATUS:

LAST IE SITE INSPECTION DATE: DECEMBER 7-11, 1987 +

INSPECTION REPORT NO: 50-364/87-34 +

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
87-004	11/13/87	11/24/87	STEAM GENERATOR TUBE DEGRADATION
87-007	11/23/87	12/22/87	FIRE BARRIER PENETRATION NON-FUNCTIONAL FOR MORE THAN SEVEN DAYS
87-008	11/27/87	12/23/87	PENING OF REACTOR COOLANT SYSTEM PRESSURE RELIEF VALVE CAUSE BY LOCALIZED PRESSURE PULSE CREATED WHEN MOV 8812A WAS OPEN
87-009	12/03/87	12/23/87	PERSONNEL ERROR LEADS TO REACTOR TRIP DUE LOW STEAM GENERATOR LEVEL COINCIDENT WITH FEEDWATER FLOW LESS THAN STEAM FLOW S
87-010	12/09/87	01/06/88	UNIT SHUT DOWN DUE TO PRESSURE BOUNDARY LEAKAGE

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 820

11. Reasons for Restrictions, If Any:

STARTUP AUTH AT LEVELS BELOW 75% OF RATED THERMAL POWER.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>11,194.9</u>
13. Hours Reactor Critical	<u>738.9</u>	<u>5,147.8</u>	<u>6,017.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>738.9</u>	<u>4,084.2</u>	<u>4,521.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,515,768</u>	<u>5,988,912</u>	<u>6,211,471</u>
18. Gross Elec Ener (MWH)	<u>479,050</u>	<u>1,573,593</u>	<u>1,584,043</u>
19. Net Elec Ener (MWH)	<u>452,683</u>	<u>1,392,801</u>	<u>1,368,885</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 5.1 4,180.3 5,881.7

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

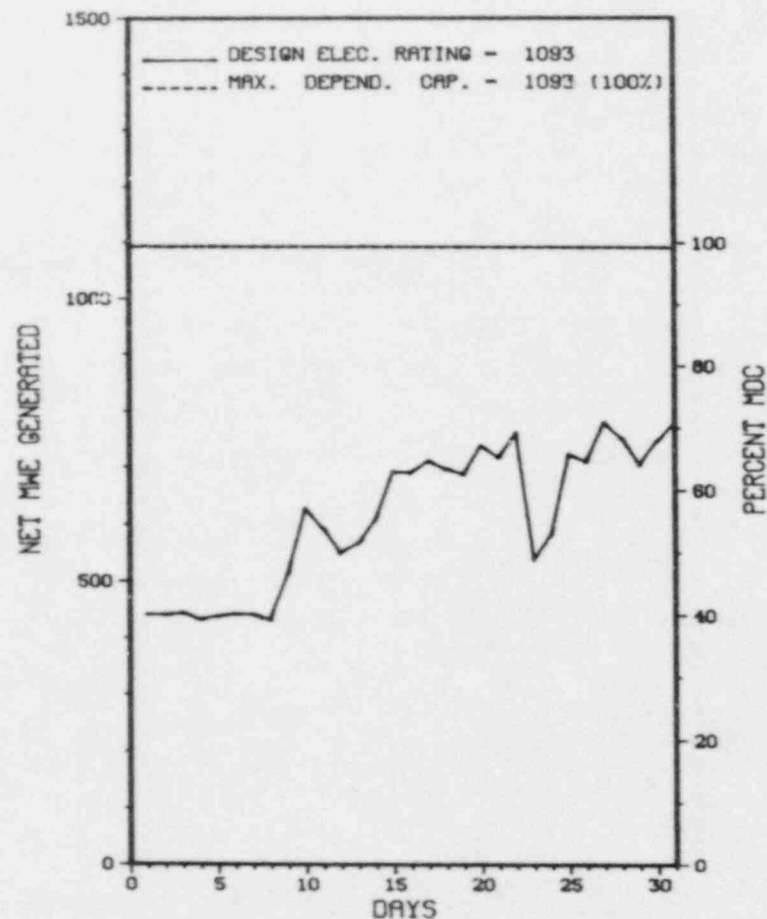
LLRT OUTAGE - MARCH 1988 - DURATION 45 DAYS.

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

* FERMI 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FERMI 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * FERM I 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-18	12/31/87	F	5.1	G	3	87-056	SJ	FIT	DURING THE INSTALLATION OF A TEMPORARY MODIFICATION, A LEAD GROUNDED IN ERROR CAUSED A FALSE DEMAND SIGNAL FOR INCREASED FEEDWATER FLOW. THIS RESULTED IN A HIGH REACTOR WATER LEVEL, TURBINE CONTROL VALVE FAST CLOSURE AND REACTOR TRIP. THE PERSONNEL INVOLVED WERE COUNSELED.

 * SUMMARY *

 FERM I 2 INCURRED ONE POWER OUTAGE IN DECEMBER BECAUSE OF OPERATIONAL ERROR DURING STARTUP TEST PHASE.

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 (MURFG-0161)
	F-Admin		
	G-Oper Error		
	H-Other		

* FERM 2 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....MICHIGAN

COUNTY.....MONROE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...LACUNA BEACH, MICH

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...JUNE 21, 1985

DATE ELEC ENER 1ST GENER...SEPTEMBER 21, 1986

DATE COMMERCIAL OPERATE...*****

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 SEPTEMBER 21 THROUGH NOVEMBER 9, 1987 (87039): 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; ADEQUACY OF EQ DOCUMENTATION; AND A PLANT PHYSICAL INSPECTION OF EQ EQUIPMENT (MODULES NO. 30703 AND 25576). THE LICENSEE HAS IMPLEMENTED A PROGRAM TO MEET THE REQUIREMENTS OF 10 CFR 50.49. DEFICIENCIES IDENTIFIED IN THE AREAS INSPECTED ARE SUMMARIZED BELOW:

INSPECTION ON SEPTEMBER 8 THROUGH OCTOBER 23, 1987 (87044): SPECIAL, ANNOUNCED SAFETY INSPECTION OF THE SURVEILLANCE PROGRAM AND ITS MEETING THE INTENT OF TECHNICAL SPECIFICATION DEFINITION 1.4, "CHANNEL CALIBRATION;" 1.6, "CHANNEL FUNCTIONAL TEST;" 1.11, "EMERGENCY CORE COOLING SYSTEM (ECCS) RESPONSE TIME;" 1.19, "LOGIC SYSTEM FUNCTIONAL TEST;" AND 1.33, "REACTOR PROTECTION SYSTEM RESPONSE TIME" IN ACCORDANCE WITH NRC INSPECTION MODULE 92701. OF THE FIVE AREAS INSPECTED, THREE VIOLATIONS OF TECHNICAL SPECIFICATIONS (TS) WERE IDENTIFIED: (1) FAILURE TO PERFORM AN ADEQUATE LOGIC FUNCTIONAL TEST IN ACCORDANCE WITH TS 4.3.2.2 AND 4.3.5.2; (2) FAILURE TO PERFORM AN ADEQUATE RESPONSE TIME TEST IN ACCORDANCE WITH TS 4.3.3.3; AND (3) FAILURE TO DEMONSTRATE THE OPERABILITY OF THE REMOTE SHUTDOWN PANEL CONTROL SWITCHES FOR THE INITIATION OF THE RCIC SYSTEM IN ACCORDANCE WITH TS 4.3.7.4.2.

ENFORCEMENT SUMMARY

NONE

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* FERM I 2 *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT OPERATION IS RESTRICTED TO LESS THAN 75% POWER FOR POWER ASCENSION TESTING.

LAST IE SITE INSPECTION DATE: 01/15/88

INSPECTION REPORT NO: 88004

REPORTS FROM LICENSEE

=====			
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NONE			
=====			

1. Docket: 50-333 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>108,961.0</u>
13. Hours Reactor Critical	<u>710.8</u>	<u>6,161.3</u>	<u>79,652.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>702.7</u>	<u>5,894.8</u>	<u>77,353.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,667,112</u>	<u>13,094,154</u>	<u>167,226,316</u>
18. Gross Elec Ener (MWH)	<u>565,600</u>	<u>4,346,310</u>	<u>56,607,400</u>
19. Net Elec Ener (MWH)	<u>545,995</u>	<u>4,198,340</u>	<u>54,778,470</u>
20. Unit Service Factor	<u>94.4</u>	<u>67.3</u>	<u>71.0</u>
21. Unit Avail Factor	<u>94.4</u>	<u>67.3</u>	<u>71.0</u>
22. Unit Cap Factor (MDC Net)	<u>92.4</u>	<u>60.3</u>	<u>64.7*</u>
23. Unit Cap Factor (DER Net)	<u>89.9</u>	<u>58.7</u>	<u>61.6</u>
24. Unit Forced Outage Rate	<u>5.6</u>	<u>5.6</u>	<u>11.6</u>
25. Forced Outage Hours	<u>41.3</u>	<u>349.1</u>	<u>10,337.5</u>

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

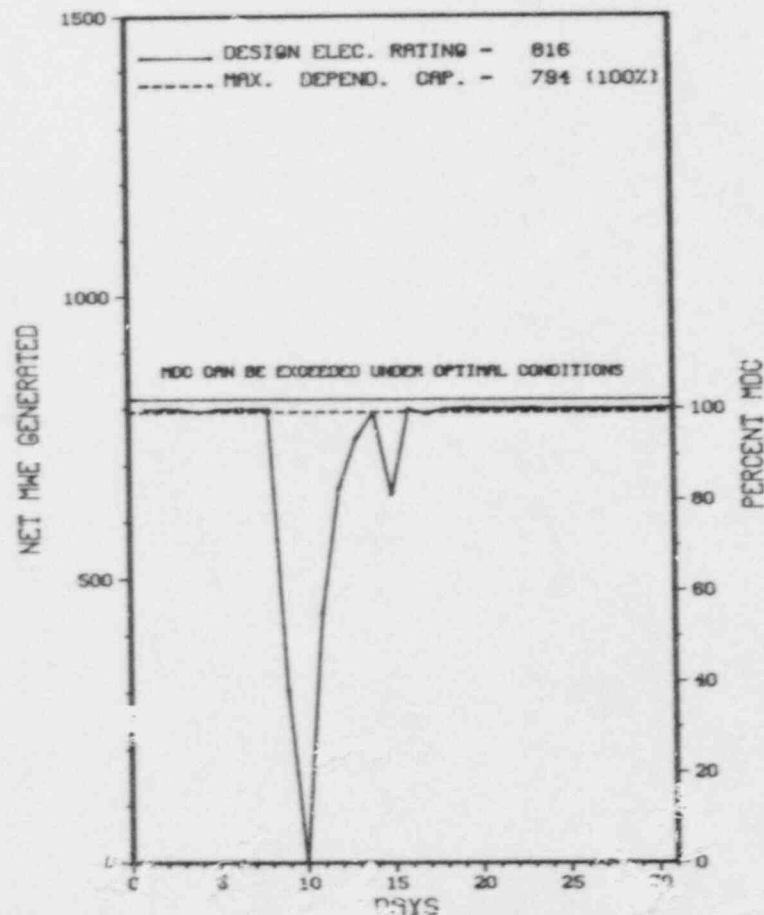
MAINTENANCE OUTAGE - 1/9/88 - DURATION 10 DAYS.

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

* FITZPATRICK *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FITZPATRICK



DECEMBER 1487

* Item calculated with a Weighted Average

PAGE 2-150

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * FITZPATRICK *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
11	12/09/87	F	41.3	B	3	87-20		REACTOR SCRAM ON FALSE LCN LEVEL DUE TO PERSONNEL ERROR WHILE CONDUCTING SURVEILLANCE TEST.

 * SUMMARY *

FITZPATRICK INCURRED 1 OUTAGE IN DECEMBER 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)

* FITZPATRICK *

F A C I L I T Y D A T A

Report Period DEC 1987

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

TS 6.8(A) REQUIRES THAT WRITTEN PROCEDURES AND ADMINISTRATIVE POLICIES BE IMPLEMENTED THAT MEET OR EXCEED THE REQUIREMENTS AND RECOMMENDATIONS OF SECTION 5 "FACILITY ADMINISTRATIVE POLICIES AND PROCEDURES OF ANSI N18.7-1972." ANSI N18.7-1972, SECTION 5 REQUIRES PROCEDURES AND POLICIES FOR PLANT STANDING ORDERS. PLANT STANDING ORDER 51, ERECTION OF SCAFFOLDS NEAR SAFETY-RELATED EQUIPMENT, REVISION 1, DATED JULY 29, 1987, REQUIRES SCAFFOLDS EXCEEDING SEVEN FEET IN HEIGHT TO BE RIGIDLY TIED-OFF TO EXISTING STRUCTURAL STEEL IN EACH HORIZONTAL DIRECTION. CONTRARY TO THE ABOVE, ON SEPTEMBER 30, 1987, SCAFFOLDING WAS ERECTED APPROXIMATELY 20 FEET ABOVE THREE OF THE FOUR EMERGENCY DIESEL GENERATORS AND WAS NOT RIGIDLY TIED-OFF AND HAD PLANKS WHICH WERE NOT SECURED AGAINST SLIPPAGE.
(8702 5)

OTHER ITEMS

Report Period DEC 1987

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

* FITZPATRICK *

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

=====

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

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1. Docket: 50-285 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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: _____

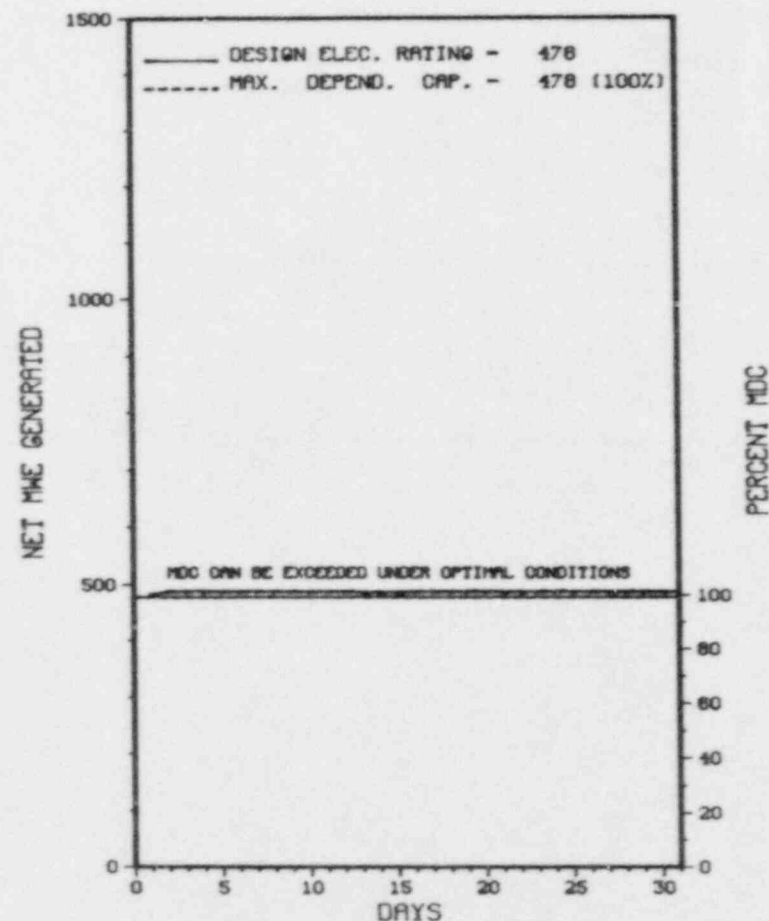
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>125,065.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,608.3</u>	<u>97,559.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,309.5</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,531.7</u>	<u>95,868.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,111,574</u>	<u>9,479,121</u>	<u>124,529,617</u>
18. Gross Elec Ener (MWH)	<u>379,578</u>	<u>3,206,195</u>	<u>41,284,776</u>
19. Net Elec Ener (MWH)	<u>363,123</u>	<u>3,060,620</u>	<u>39,144,068</u>
20. Unit Service Factor	<u>100.0</u>	<u>74.6</u>	<u>76.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>74.6</u>	<u>76.7</u>
22. Unit Cap Factor (MDC Net)	<u>102.1</u>	<u>73.1</u>	<u>67.6*</u>
23. Unit Cap Factor (DER Net)	<u>102.1</u>	<u>73.1</u>	<u>65.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>3.1</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):	<u>NONE</u>		

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

 * FORT CALHOUN 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 FORT CALHOUN 1



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* FORT CALHOUN 1 *

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

* SUMMARY *

FORT CALHOUN OPERATED ROUTINELY IN DECEMBER 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)

ENFORCEMENT SUMMARY

CONTRARY TO CRITERION XVI OF APP. I TO PART 50, THE LICENSEE FAILED TO TAKE CORRECTIVE ACTIONS RELATED TO THE NONFUNCTIONAL STATUS OF FIRE DOORS. CONTRARY TO 10 CFR 20.103(A)(3); PLANT PROCEDURE 60AC-HPX-006-05; PLANT PROCEDURE 62RP-RA-009-05, ON MAY 17, 1987, THE LICENSEE FAILED TO TAKE SUITABLE MEASUREMENTS TO DETECT AND EVALUATE AIRBORNE RADIOACTIVITY WITHIN THE HOT MACHINE SHOP, IN THAT, AIR SAMPLING AND SUBSEQUENT EVALUATIONS WERE NOT CONDUCTED DURING MAINTENANCE ACTIVITIES, SANDING AND POLISHING, FOR A METAL PIECE OF EQUIPMENT HAVING SMEARABLE RADIOACTIVE CONTAMINATION LEVELS OF APPROXIMATELY 320 MR/HOUR. CONTRARY TO 10 CFR 70.51(C); PLANT PROCEDURE, 40AC-ENG07-0, THE REQUIREMENT THAT THE LICENSEE MAINTAIN AND FOLLOW WRITTEN MATERIAL CONTROL AND ACCOUNTING PROCEDURES WAS NOT MET IN THAT ON JUNE 9, 1987, FISSION DETECTORS WHICH HAD BEEN REMOVED FROM THE REACTOR AND STORED IN A 55-GALLON DRUM WERE DETERMINED TO BE IN A NON-APPROVED STORAGE AREA ON THE 185 FOOT ELEVATION OF THE REACTOR BUILDING AND WERE IMPROPERLY LISTED IN INVENTORY RECORDS AS BEING MAINTAINED ON THE REFUELING FLOOR. CONTRARY TO 10 CFR 30.41(C); LICENSE CONDITION 32A; PLANT PROCEDURE, 60AC-HPX-007-05, ON OCTOBER 20, 1987, THE LICENSEE FAILED TO COMPLY WITH A DISPOSAL SITE LICENSE CONDITION IN THAT A BOX WITHIN RADIOACTIVE WASTE SHIPMENT NO. 1087-178 FROM THE E. I. HATCH NUCLEAR PLANT WAS DETERMINED TO CONTAIN FREE LIQUID UPON ITS ARRIVAL AT THE DISPOSAL SITE. CONTRARY TO 10 CFR 20.103(A)(3); PLANT PROCEDURE 60AC-HPX-006-05; PLANT PROCEDURE 62RP-PA-009-05, ON MAY 17, 1987, THE LICENSEE FAILED TO TAKE SUITABLE MEASUREMENTS TO DETECT AND EVALUATE AIRBORNE RADIOACTIVITY WITHIN THE HOT MACHINE SHOP, IN THAT, AIR SAMPLING AND SUBSEQUENT EVALUATIONS WERE NOT CONDUCTED DURING MAINTENANCE ACTIVITIES, SANDING AND POLISHING, FOR A METAL PIECE OF EQUIPMENT HAVING SMEARABLE RADIOACTIVE CONTAMINATION LEVELS OF APPROXIMATELY 320 MR/HOUR. CONTRARY TO 10 CFR 70.51(C); PLANT PROCEDURE, 40AC-ENG07-0, THE REQUIREMENT THAT THE LICENSEE MAINTAIN AND FOLLOW WRITTEN MATERIAL CONTROL AND ACCOUNTING PROCEDURES WAS NOT MET IN THAT ON JUNE 9, 1987, FISSION DETECTORS WHICH HAD BEEN REMOVED FROM THE REACTOR AND STORED IN A 55-GALLON DRUM WERE DETERMINED TO BE IN A NON-APPROVED STORAGE AREA ON THE 185 FOOT ELEVATION OF THE REACTOR BUILDING AND WERE IMPROPERLY LISTED IN INVENTORY RECORDS AS BEING MAINTAINED ON THE REFUELING FLOOR. CONTRARY TO 10 CFR 30.41(C); LICENSE CONDITION 32A; PLANT PROCEDURE, 60AC-HPX-007-05, ON OCTOBER 20, 1987, THE LICENSEE FAILED TO COMPLY WITH A DISPOSAL SITE LICENSE CONDITION IN THAT A BOX WITHIN RADIOACTIVE WASTE SHIPMENT NO. 1087-178 FROM THE E. I. HATCH NUCLEAR PLANT WAS DETERMINED TO CONTAIN FREE LIQUID UPON ITS ARRIVAL AT THE DISPOSAL SITE.

(8702 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: NOV.19, 1987

INSPECTION REPORT NO: 50-285/87-31

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1. Docket: 50-267 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: FRANK NOVACHEK (303) 785-2224

4. Licensed Thermal Power (Mwt): 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>744.0</u>	<u>8,760.0</u>	<u>74,545.0</u>
13. Hours Reactor Critical	<u>447.4</u>	<u>2,908.9</u>	<u>33,401.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>218.7</u>	<u>2,030.4</u>	<u>21,581.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>87,441</u>	<u>667,931</u>	<u>10,781,413</u>
18. Gross Elec Ener (MWH)	<u>18,435</u>	<u>208,224</u>	<u>3,542,514</u>
19. Net Elec Ener (MWH)	<u>14,642</u>	<u>180,922</u>	<u>3,128,975</u>
20. Unit Service Factor	<u>29.4</u>	<u>23.2</u>	<u>29.0</u>
21. Unit Avail Factor	<u>29.4</u>	<u>23.2</u>	<u>29.0</u>
22. Unit Cap Factor (MDC Net)	<u>6.0</u>	<u>6.3</u>	<u>12.7</u>
23. Unit Cap Factor (DER Net)	<u>6.0</u>	<u>6.3</u>	<u>12.7</u>
24. Unit Forced Outage Rate	<u>70.6</u>	<u>74.4</u>	<u>64.2</u>
25. Forced Outage Hours	<u>525.3</u>	<u>5,914.2</u>	<u>38,676.6</u>

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

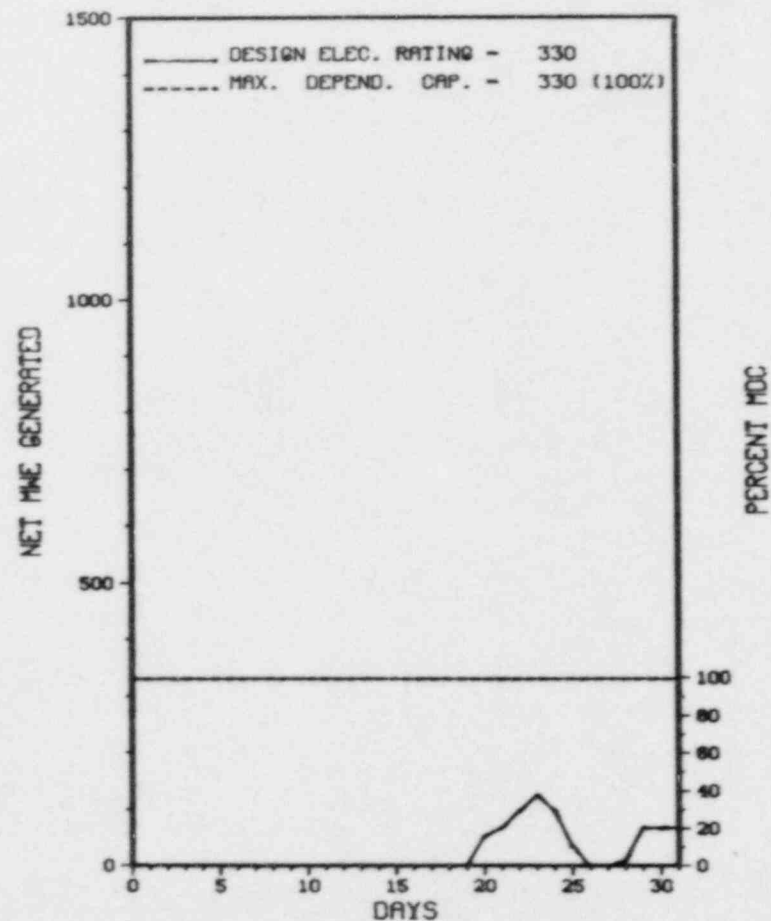
NONE

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

* FORT ST VRAIN *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FORT ST VRAIN



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* FORT ST VRAIN *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-14	10/03/87	F	355.8	A	4	87-023	SB	RV	REPAIR HYDRAULIC OIL FIRE DAMAGE.
87-15	12/15/87	F	92.8	H	9		AB	CMP	MOISTURE INGRESS FOLLOWING TRIP OF D HELIUM CIRCULATOR.
87-16	12/24/87	F	0.5	H	9		AB	CMP	TURBINE TRIP ON LOW MAIN STEAM TEMPERATURE FOLLOWING TRIP OF C HELIUM CIRCULATOR.
87-17	12/25/87	F	76.2	G	3	87-031	ZZ	ZZZZZZ	REACTOR SCRAM ON HOT REHEAT TEMPERATURE HIGH DUE TO OPERATOR ERROR.

* SUMMARY *

FT ST VRAIN COMPLETED REPAIRS DUE TO HYDRAULIC OIL FIRE AND SUBSEQUENTLY INCURRED 3 FORCED OUTAGES AS DISCUSSED ABOVE.

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)

* FORT ST VRAIN *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED OCT.5-7, 1987 (87-24) ROUTINE, UNANNOUNCED INSPECTION OF THE LIQUID AND GASEOUS RADIOACTIVE WASTE MANAGEMENT PROGRAM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED NOV.2-6, 1987 (87-30) ROUTINE, UNANNOUNCED INSPECTION OF OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM, NOTIFICATIONS AND COMMUNICATIONS, PUBLIC INFORMATION, AND LICENSEE AUDITS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. HOWEVER, TWO DEFICIENCIES WERE IDENTIFIED.

INSPECTION CONDUCTED OCT.30 - NOV.3, 1987 (87-31) THE SENIOR RESIDENT INSPECTOR MADE A SPECIAL UNANNOUNCED INSPECTION OF THE LICENSEE ACTION ON NRC VIOLATION 267/8619-03. WITHIN THE AREA INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED NOV.16-20, 1987 (87-33) ROUTINE, UNANNOUNCED INSPECTION OF THE ONSITE AND OFFSITE REVIEW COMMITTEES WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* FORT ST VRAIN *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: NOV.20, 1987

INSPECTION REPORT NO: 50-267/87-33

REPORTS FROM LICENSEE

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NONE			

=====

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

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>158,640.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>8,014.5</u>	<u>124,017.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,687.7</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,994.0</u>	<u>121,647.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>8.5</u>
17. Gross Therm Ener (MWH)	<u>1,113,677</u>	<u>11,877,684</u>	<u>170,927,333</u>
18. Gross Elec Ener (MWH)	<u>378,368</u>	<u>4,020,973</u>	<u>56,127,586</u>
19. Net Elec Ener (MWH)	<u>359,980</u>	<u>3,797,701</u>	<u>53,211,285</u>
20. Unit Service Factor	<u>100.0</u>	<u>91.3</u>	<u>76.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>91.3</u>	<u>76.7</u>
22. Unit Cap Factor (MDC Net)	<u>102.9</u>	<u>92.2</u>	<u>72.8*</u>
23. Unit Cap Factor (DER Net)	<u>102.9</u>	<u>92.2</u>	<u>72.8*</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):

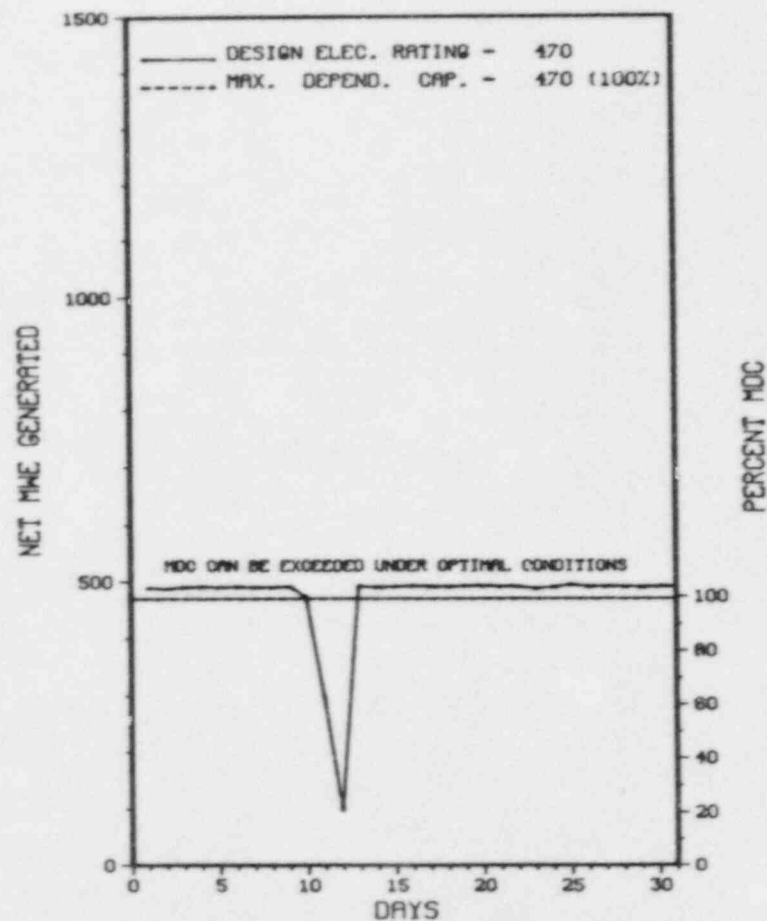
REFUELING/MAINTENANCE - FEBRUARY 5, 1988 - 30 DAY DURATION

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

* GINNA *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

GINNA



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* GINNA *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
	12/10/87	F	0.0	A	5		HF	HTEXCH	POWER REDUCTION TO APPROXIMATELY 48% REACTOR POWER LEVEL TO ISOLATE 1B1 AND 1B2 CONDENSER WATER BOXES TO REPAIR TUBE LEAKS.

* SUMMARY *

GINNA INCURRED ONE POWER REDUCTION IN DECEMBER TO REPAIR
TUBE LEAKS IN CONDENSER WATER BOXES.

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)

* GINNA *

F A C I L I T Y D A T A

Report Period DEC 1987

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.....W. COOK

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

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 DEC 1987

INSPECTION STATUS - (CONTINUED)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X GINNA X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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.

REPORTS FROM LICENSEE

=====			
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NO INPUT PROVIDED.			
=====			

1. Docket: 50-416 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>21,937.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>7,203.3</u>	<u>15,711.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>7,100.0</u>	<u>15,123.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>25,460,224</u>	<u>49,195,672</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>8,064,910</u>	<u>15,191,410</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>7,726,991</u>	<u>14,479,194</u>
20. Unit Service Factor	<u>.0</u>	<u>81.1</u>	<u>68.9</u>
21. Unit Avail Factor	<u>.0</u>	<u>81.1</u>	<u>68.9</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>78.0</u>	<u>57.8</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>70.6</u>	<u>52.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.2</u>	<u>6.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>156.2</u>	<u>1,108.2</u>

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

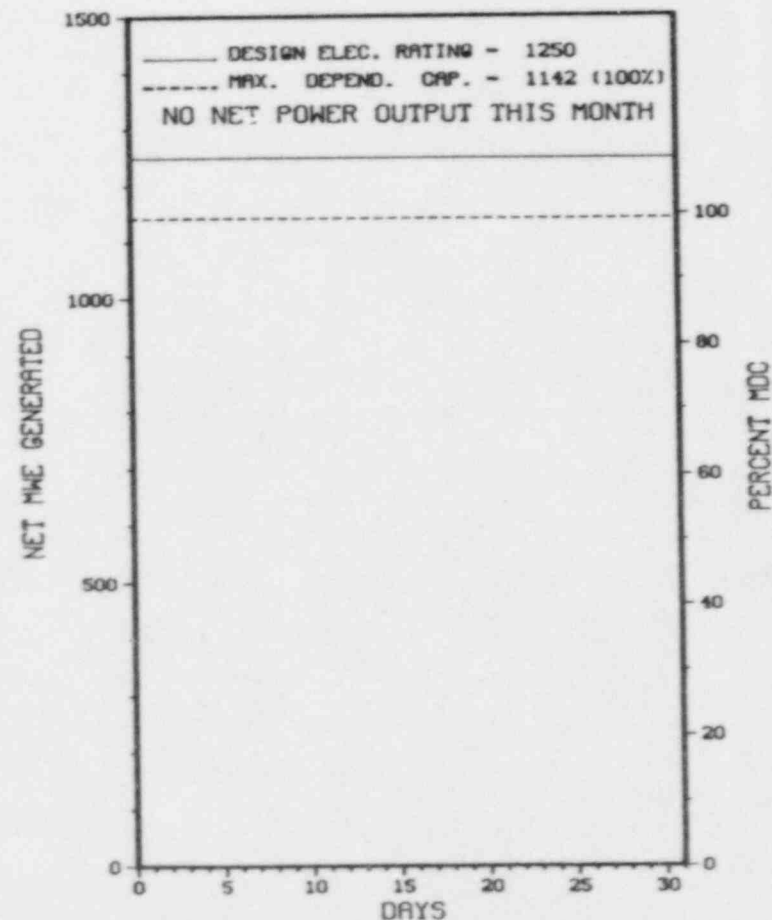
NONE

27. If Currently Shutdown Estimated Startup Date: 01/03/88

 * GRAND GULF 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

GRAND GULF 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * GRAND GULF 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
87-14	11/07/87	S	744.0	C	4			CONTINUED REFUELING OUTAGE

 * SUMMARY *

 GRAND GULF 1 REMAINED SHUTDOWN IN DECEMBER 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)

* GRAND GULF 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION NOVEMBER 16-19 (87-31): ROUTINE, ANNOUNCED INSPECTION OF THE GRAND GULF EMERGENCY PREPAREDNESS EXERCISE, INVOLVING OBSERVATION BY FOUR NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THIS FULL PARTICIPATION EXERCISE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 16-20 (87-33): THIS ROUTINE, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM INCLUDED: OCCUPATIONAL EXPOSURES DURING EXTENDED OUTAGES, ORGANIZATION AND MANAGEMENT CONTROLS OF THE HEALTH PHYSICS STAFF; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS AND MONITORING; EXTERNAL EXPOSURE CONTROL AND PERSONNEL DOSIMETRY; INTERNAL EXPOSURE CONTROL; TRAINING AND QUALIFICATIONS; SOLID RADIOACTIVE WASTE; TRANSPORTATION OF RADIOACTIVE MATERIAL; AND THE LICENSEE'S PROGRAM FOR MAINTAINING RADIATION DOSES AS LOW AS REASONABLY ACHIEVABLE (ALARA). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 30 - DECEMBER 1 (87-38): THIS SPECIAL REACTIVE INSPECTION WAS CONDUCTED TO REVIEW THE CIRCUMSTANCES OF A LICENSEE REPORTED SECURITY EVENT RELATING TO A DELAYED RESPONSE TO AN VITAL AREA INTRUSION ALARM. REVIEW AND INSPECTION CONFIRMED THE OCCURRENCE OF TWO LICENSEE IDENTIFIED VIOLATIONS OF PROCEDURAL REQUIREMENTS. DELAYED RESPONSE AND IMPLEMENTATION OF COMPENSATORY MEASURES FOR AN IMPROPERLY SECURED VITAL AREA DOOR. DELAYED SUBMISSION OF A SECURITY EVENT REPORT TO THE NRC BEYOND THE REQUIRED ONE HOUR TIME PERIOD. IN ACCORDANCE WITH THE PROVISIONS OF THE NRC ENFORCEMENT POLICY (10 CFR PART 2, APPENDIX C, SECTION V-A) A NOTICE OF VIOLATION WAS NOT ISSUED FOR THESE LICENSEE-IDENTIFIED VIOLATIONS.

Report Period DEC 1987

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

* GRAND GULF 1 *

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

IN STARTUP FOLLOWING REFUELING AND REPAIR OF NO. 10 MAIN GENERATOR BEARING.

LAST IE SITE INSPECTION DATE: NOVEMBER 30 - DECEMBER 1, 1987 +

INSPECTION REPORT NO: 50-416/87-38 +

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

87-018	11/14/87	12/14/87	LATE SURVEILLANCE DURING CORE ALTERATIONS
87-019	11/17/87	12/17/87	HEAVY LOAD TRANSPORTED OVER NEW FUEL IN UPPER CONTAINMENT POOL FUEL STORAGE RACKS
87-020	11/19/87	12/17/87	SHUTDOWN COOLING ISOLATION DUE TO BLOWN FUSE
=====			

1. Docket: 50-213 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. STANFORD (203) 267-2556 X452

4. Licensed Thermal Power (MWh): 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

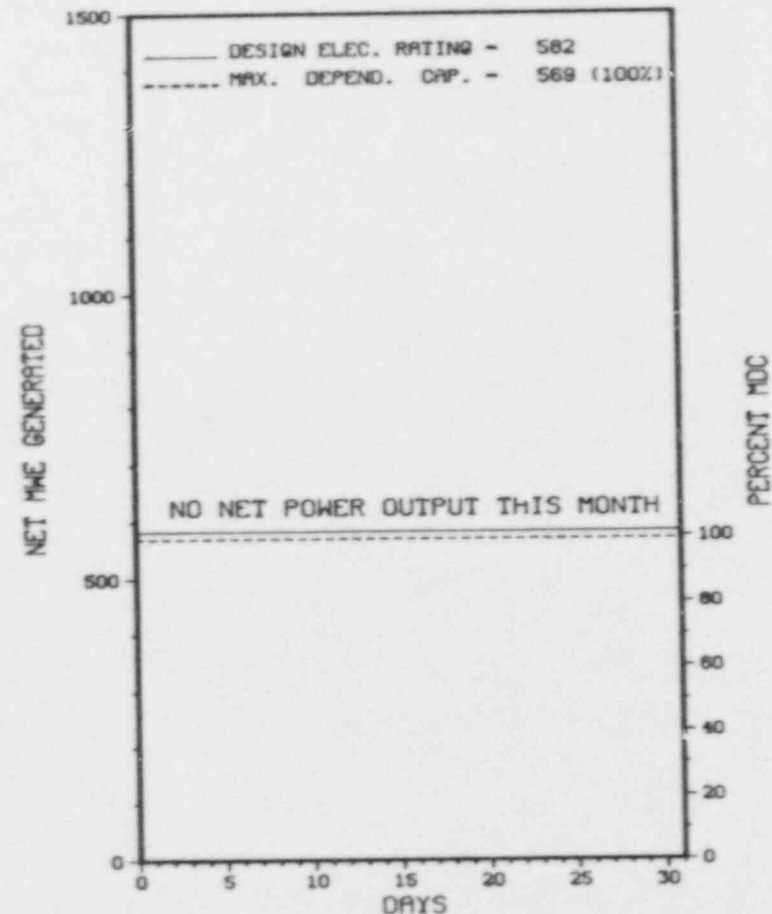
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>175,320.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>4,728.9</u>	<u>146,189.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,221.5</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>4,700.5</u>	<u>140,200.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>398.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>8,389,543</u>	<u>242,770,004</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>2,667,885</u>	<u>79,780,378</u>
19. Net Elec Ener (MWH)	<u>-1,945</u>	<u>2,527,207</u>	<u>75,560,614</u>
20. Unit Service Factor	<u>.0</u>	<u>53.7</u>	<u>85.0</u>
21. Unit Avail Factor	<u>.0</u>	<u>53.7</u>	<u>80.7</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>50.7</u>	<u>78.8*</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>49.6</u>	<u>74.1*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.1</u>	<u>6.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>54.3</u>	<u>2,432.8</u>

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

27. If Currently Shutdown Estimated Startup Date: 02/22/88

 * HADDAM NECK *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 HADDAM NECK



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

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	744.0	C	4		RC FUELXX	CONTINUATION OF CORE 14-15 REFUELING

 * SUMMARY *

 HADDAM NECK REMAINED SHUTDOWN IN DECEMBER 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 DEC 1987

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.....P. SWETLAND

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

INSPECTION STATUS

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 DEC 1987

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

* HADDAM NECK *

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: 50-400 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: MARK W. HALE (919) 362-2944

4. Licensed Thermal Power (MWh): 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:
ITEM 4 CHANGED DUE TO AN INADVERTENT RATING CHANGE.

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>744.0</u>	<u>5,857.0</u>	<u>5,857.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>4,449.2</u>	<u>4,449.2</u>
14. Rx Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-line	<u>744.0</u>	<u>4,323.6</u>	<u>4,323.6</u>
16. Unit Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,017,147</u>	<u>11,150,141</u>	<u>11,150,141</u>
18. Gross Elec Ener (MWH)	<u>683,825</u>	<u>3,665,218</u>	<u>3,665,218</u>
19. Net Elec Ener (MWH)	<u>641,508</u>	<u>3,378,829</u>	<u>3,378,829</u>
20. Unit Service Factor	<u>100.0</u>	<u>73.8</u>	<u>73.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>73.8</u>	<u>73.8</u>
22. Unit Cap Factor (MDC Net)	<u>100.3</u>	<u>67.1</u>	<u>67.1</u>
23. Unit Cap Factor (DER Net)	<u>95.8</u>	<u>64.1</u>	<u>64.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>10.4</u>	<u>10.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>503.3</u>	<u>503.3</u>

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

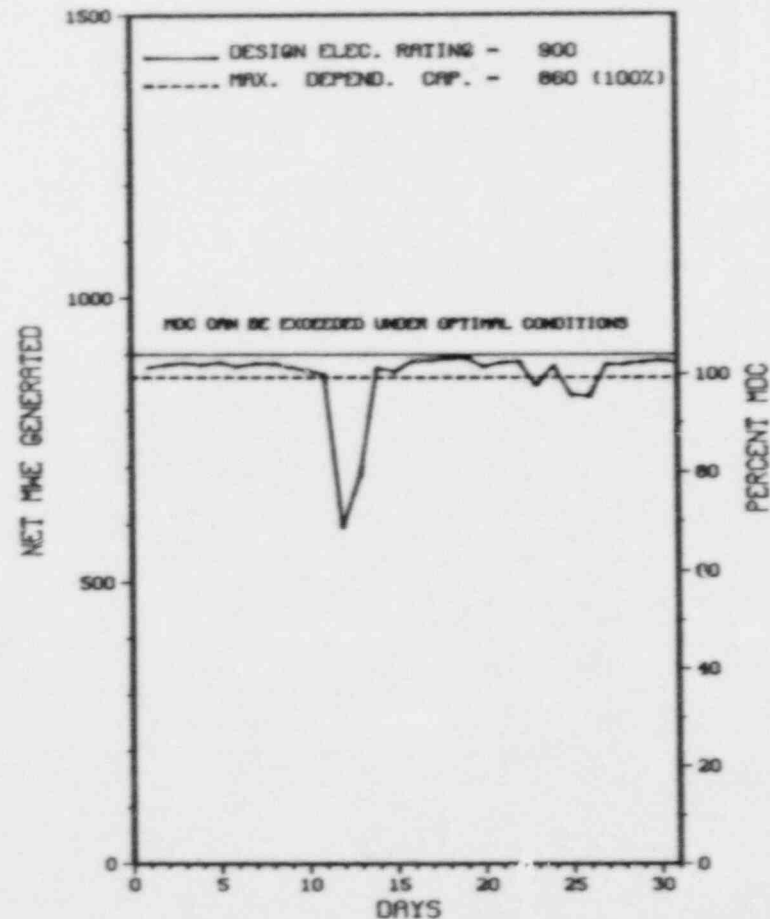
NONE

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

X HARRIS 1 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HARRIS 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * HARRIS 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-049	12/11/87	S	9.0	B	5		HA	VALVEX	LOAD REDUCED TO 70% TO PERFORM TURBINE VALVE TESTING. THE REQUIRED TESTS WERE COMPLETED AND THE UNIT WAS RETURNED TO FULL POWER.
87-050	12/12/87	F	9.0	A	5		HH	PIPEXX	LOAD REDUCED TO 65% TO REPAIR LEAKING PIPE UNIONS ON HEATER BRAIN PUMPS 1A AND 1B. THE LEAKS WERE BECOMING A PERSONNEL HAZARD. A PLANT CHANGE WAS IMPLEMENTED WHICH REPLACED THE UNIONS WITH PIPING. THE REPAIRS WERE COMPLETED AND THE UNIT WAS RETURNED TO FULL POWER.
87-051	12/23/87	S	0.0	H	5		ZZ	ZZZZZZ	LOAD REDUCTION TO 70% PER REQUEST OF THE DISPATCHER. THE LOAD WAS REDUCED DUE TO LOW SYSTEM DEMAND. UNIT WAS RETURNED TO FULL POWER AS SYSTEM DEMAND INCREASED.
87-052	12/25/87	S	0.0	H	5		ZZ	ZZZZZZ	LOAD REDUCTION TO 92% PER REQUEST OF SYSTEM LOAD DISPATCHER. THE LOAD WAS REDUCED DUE TO LOW SYSTEM DEMAND. UNIT WAS RETURNED TO FULL POWER AS SYSTEM DEMAND INCREASED.
87-053	12/25/87	S	0.0	H	5		ZZ	ZZZZZZ	LOAD REDUCTION TO 72% PER REQUEST OF THE DISPATCHER. THE LOAD WAS REDUCED DUE TO LOW SYSTEM DEMAND. UNIT WAS RETURNED TO FULL POWER AS SYSTEM DEMAND INCREASED.

 * SUMMARY *

HARRIS 1 INCURRED 5 LOAD REDUCTIONS IN DECEMBER 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)

* HARRIS 1 *

FACILITY DATA

Report Period DEC 1987

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 METHGD...NDCT

CONDENSER COOLING WATER...MAKEUP RESERVOIR

ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIA ILITY 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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 30 - DECEMBER 4 (87-42): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; BARRIERS PROTECTED AND VITAL AREAS; COMPENSATORY MEASURES; ACCESS CONTROL OF PERSONNEL, PACKAGES, AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; AND ALARM STATIONS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE. +

INSPECTION STATUS - (CONTINUED)

PAGE 2-179

1. Docket: 50-321 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 783

8. Maximum Dependable Capacity (Net MWe): 750

9. If Changes Occur Above Since L. st 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>744.0</u>	<u>8,760.0</u>	<u>105,192.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,191.7</u>	<u>74,764.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,046.0</u>	<u>70,776.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,808,496</u>	<u>16,482,705</u>	<u>152,755,380</u>
18. Gross Elec Ener (MWH)	<u>587,430</u>	<u>5,321,320</u>	<u>49,379,380</u>
19. Net Elec Ener (MWH)	<u>562,036</u>	<u>5,076,654</u>	<u>46,931,219</u>
20. Unit Service Factor	<u>100.0</u>	<u>80.4</u>	<u>67.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>80.4</u>	<u>67.3</u>
22. Unit Cap Factor (MDC Net)	<u>100.7</u>	<u>77.3</u>	<u>59.5</u>
23. Unit Cap Factor (DER Net)	<u>97.3</u>	<u>74.7</u>	<u>57.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.2</u>	<u>13.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>156.5</u>	<u>10,863.1</u>

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

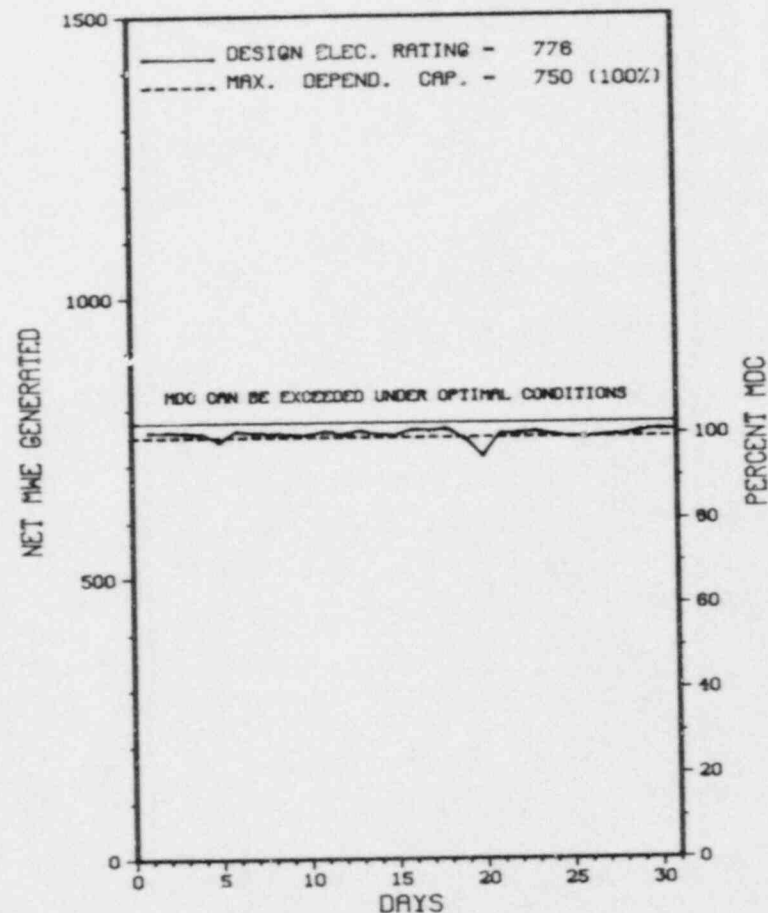
NONE

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

* HATCH 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HATCH 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* HATCH 1 *

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

* SUMMARY *

HATCH 1 OPERATED ROUTINELY IN DECEMBER 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)

* HATCH 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 27 - NOVEMBER 20 (87-29): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, PLANT MODIFICATION, SURVEILLANCE OBSERVATION, ESF SYSTEM WALKDOWN, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, REACTOR EVENTS, PART 21 REPORT FOLLOWUP AND TMI OPEN ITEM FOLLOWUP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 16-20 (87-30): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOWUP ON PREVIOUSLY IDENTIFIED INSPECTION ITEMS. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO IMPLEMENT FIRE PROTECTION PROGRAM PROCEDURES FOR DOCUMENTATION OF FIRE PROTECTION ACTIVITIES; AND FAILURE TO REPEAT UNSATISFACTORY FIRE BRIGADE DRILLS WITHIN REQUIRED TIME PERIOD.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

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*****
*           HATCH 1           *
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OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-321/87-30 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE.

OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 784

7. Maximum Dependable Capacity (Gross MWe): 794

8. Maximum Dependable Capacity (Net MWe): 761

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

NONE

10. Power Level To Which Restricted, If Any (Net MWe): 596

11. Reasons for Restrictions, If Any: _____

ADMINISTRATIVE - TO LIMIT OFFGAS ACTIVITY

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>72,961.0</u>

13. Hours Reactor Critical	<u>744.0</u>	<u>8,519.6</u>	<u>52,692.0</u>
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14. Rx Reserve Shtdwn Hrs .0 .0 .0

15. Hrs Generator On-Line	744.0	8,390.4	50,573.8
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16. Unit Reserve Shtdwn Hrs .0 .0 .0

17. Gross Therm Ener (MWH)	1,336,776	18,288,347	108,738,323
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18. Gross Elec Ener (MWH)	440,550	6,026,400	35,755,100
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19. Net Elec Ener (MWH)	418,135	5,755,607	34,044,512
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20. Unit Service Factor	100.0	95.8	69.3
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21. Unit Avail Factor	100.0	95.8	69.3
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22. Unit Cap Factor (MDC Net)	73.9	86.3	61.3
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23. Unit Cap Factor (DER Net)	71.7	83.9	59.5
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24. Unit Forced Outage Rate	0	3.1	8.3
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25. Forced Outage Hours	.0	272.2	4,583.8
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26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

REFUELING - 1/13/88 - DURATION 65 DAYS.

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

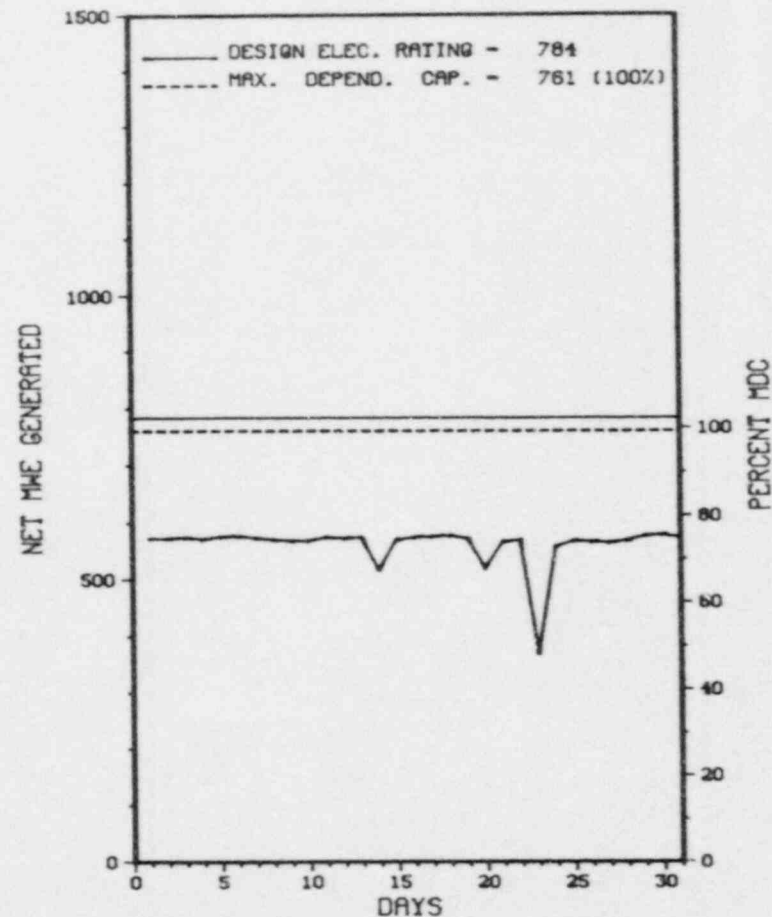
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X                HATCH 2                X
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AVERAGE DAILY POWER LEVEL (MW_e) PLOT

HATCH 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* HATCH 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-022	12/23/87	S	0.0	B	5		CB	VALVEX	ELIMINATED PACKING LEAK ON SUCTION VALVE FOR 'A' RECIRC PUMP BY ELECTRICALLY BACKSEATING.

* SUMMARY *

HATCH 2 OPERATED AT A SELF IMPOSED RESTRICTED LEVEL DURING DECEMBER AND INCURRED ONE ADDITIONAL POWER REDUCTION TO REPAIR LEAK ON SUCTION VALVE.

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 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 27 - NOVEMBER 20 (87-29): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, PLANT MODIFICATION, SURVEILLANCE OBSERVATION, ESF SYSTEM WALKDOWN, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, REACTOR EVENTS, PART 21 REPORT FOLLOWUP AND TMI OPEN ITEM FOLLOWUP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 16-20 (87-30): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOWUP ON PREVIOUSLY IDENTIFIED INSPECTION ITEMS. TWO VIOLATIONS WERE IDENTIFIED: FAILURE TO IMPLEMENT FIRE PROTECTION PROGRAM PROCEDURES FOR DOCUMENTATION OF FIRE PROTECTION ACTIVITIES; AND FAILURE TO REPEAT UNSATISFACTORY FIRE BRIGADE DRILLS WITHIN REQUIRED TIME PERIOD.

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, THE LICENSEE FAILED TO CONDUCT REVIEWS OF THE UNIT 2 CAUTION TAG INDEX/AUDIT SHEETS DURING THE MONTHS OF MAY, JUNE, AND SEPTEMBER OF 1987.
(8702 5)

INSPECTION STATUS - (CONTINUED)

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X              HATCH 2              X
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SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NGNE.

PLANT STATUS:

+ REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-366/87-30 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-017	11/19/87	12/15/87	EQUIPMENT AGING CAUSES DEFECTIVE AMPLIFIER RESULTING IN LOSS OF AUTOMATIC SAFETY FUNCTION

1. Docket: 50-354 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: RYAN 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:

 * HOPE CREEK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HOPE CREEK 1

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

11. Reasons for Restrictions, If Any: _____

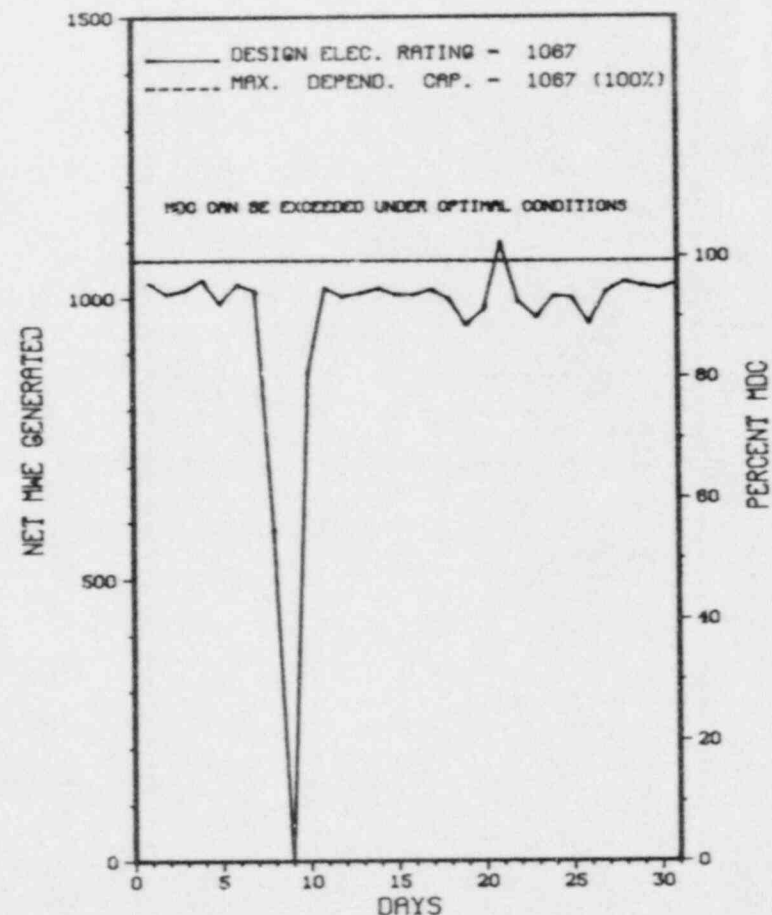
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>9,048.0</u>
13. Hours Reactor Critical	<u>713.9</u>	<u>7,570.1</u>	<u>7,858.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>709.4</u>	<u>7,457.1</u>	<u>7,745.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,309,491</u>	<u>22,878,159</u>	<u>23,808,567</u>
18. Gross Elec Ener (MWH)	<u>770,718</u>	<u>7,614,124</u>	<u>7,911,764</u>
19. Net Elec Ener (MWH)	<u>739,066</u>	<u>7,277,090</u>	<u>7,562,914</u>
20. Unit Service Factor	<u>95.3</u>	<u>85.1</u>	<u>85.6</u>
21. Unit Avail Factor	<u>95.3</u>	<u>85.1</u>	<u>85.6</u>
22. Unit Cap Factor (MDC Net)	<u>93.1</u>	<u>79.1</u>	<u>78.3</u>
23. Unit Cap Factor (DER Net)	<u>93.1</u>	<u>77.9</u>	<u>78.3</u>
24. Unit Forced Outage Rate	<u>4.7</u>	<u>9.3</u>	<u>8.9</u>
25. Forced Outage Hours	<u>34.6</u>	<u>760.6</u>	<u>760.6</u>

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

REFUELING - 2/12/88 - 55 DAY DURATION

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



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * HOPE CREEK 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
21	12/08/87	F	34.6	A	3	87-051		REACTOR SCRAM CAUSED BY A SPURIOUS SIGNAL IN THE MAIN STEAM LINE RADIATION MONITORING CABINETS LER 87-051 1/6/88

 * SUMMARY *

 HOPE CREEK INCURRED ONE POWER OUTAGE IN DECEMBER FOR REASON 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)

* HOPE CREEK 1 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....NEW JERSEY

COUNTY.....SALEM

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...18 MI SE OF
WILMINGTON, DEL

YPE 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

CONSTRUCTOR.....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

INSPECTION STATUS

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 DEC 1987

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

* HOPE CREEK 1 *

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
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INFO. NOT SUPPLIED BY REGION

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1. Docket: 50-247 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 885

8. Maximum Dependable Capacity (Net MWe): 849

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>744.0</u>	<u>8,760.0</u>	<u>118,369.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>6,347.3</u>	<u>80,619.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>79.4</u>	<u>2,867.6</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>6,333.0</u>	<u>78,396.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>17,117,914</u>	<u>204,842,870</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>5,355,790</u>	<u>63,613,556</u>
19. Net Elec Ener (MWH)	<u>-1,520</u>	<u>5,146,333</u>	<u>60,135,788</u>
20. Unit Service Factor	<u>.0</u>	<u>72.3</u>	<u>66.2</u>
21. Unit Avail Factor	<u>.0</u>	<u>72.3</u>	<u>66.2</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>68.9</u>	<u>59.8*</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>67.3</u>	<u>58.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.9</u>	<u>8.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>123.8</u>	<u>7,558.0</u>

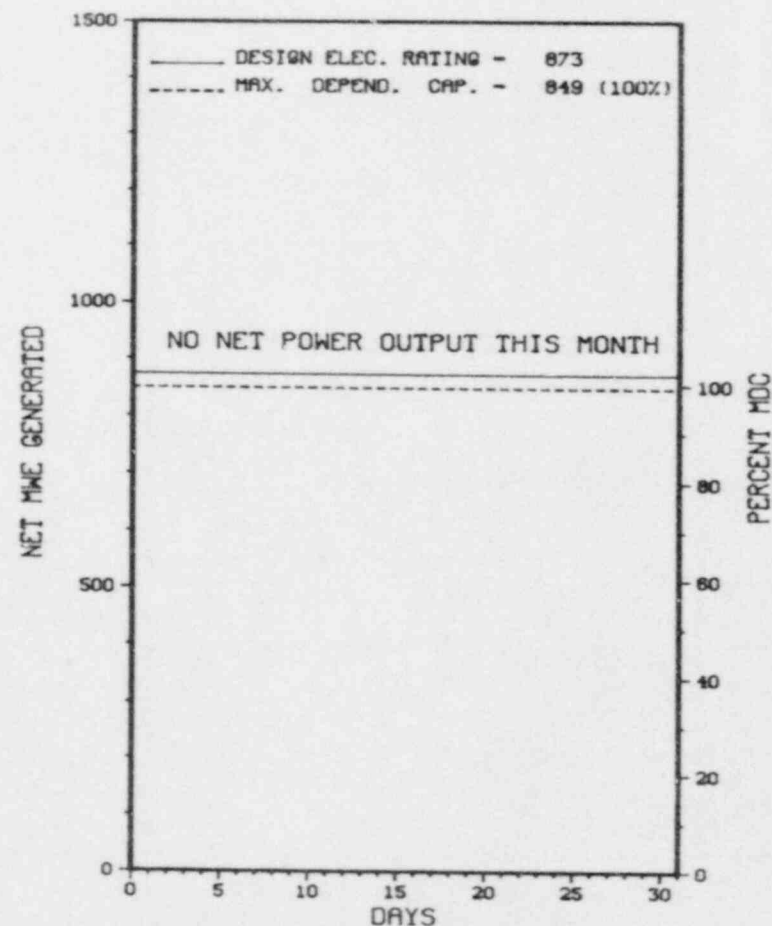
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 01/02/88

* INDIAN POINT 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

INDIAN POINT 2



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * INDIAN POINT 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	10/05/87	S	744.0	C	4		XX	XXXXXX	CYCLE 8/9 REFUELING OUTAGE

 * SUMMARY *

 INDIAN POINT 2 REMAINED SHUTDOWN IN DECEMBER FOR SCHEDULED REFUELING OUTAGE.

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)

* INDIAN POINT 2 *

FACILITY DATA

Report Period DEC 1987

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 WATER...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
PROJECT NUMBER.....50-247
LICENSE & DATE ISSUANCE...DPR-26, SEPTEMBER 28, 1973
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

TS 6.2.2(G) REQUIRES THAT ADMINISTRATIVE PROCEDURES SHALL BE DEVELOPED AND IMPLEMENTED TO LIMIT THE WORKING HOURS OF UNIT STAFF WHO PERFORM SAFETY-RELATED FUNCTIONS (E.G., LICENSED SENIOR OPERATORS, LICENSED OPERATORS, HEALTH PHYSICISTS, AUXILIARY OPERATORS AND KEY MAINTENANCE PERSONNEL.) OPERATIONS ADMINISTRATIVE DIRECTIVE (OAD) 9, REV 8, "OPERATIONS SECTION ORGANIZATION" STATES IN PART THAT PLANNED DEVIATIONS FROM THESE GUIDELINES (E.G., INDIVIDUAL SHOULD NOT BE PERMITTED TO WORK MORE THAN 16 HOURS IN ANY 24 HOUR PERIOD, NOR MORE THAN 24 HOURS IN ANY 48 HOUR PERIOD, ETC., AS STATED IN SECTION 5 OF THE PROCEDURE) REQUIRE ADVANCED APPROVAL OF THE OPERATIONS MANAGER WHO SHALL KEEP THE GENERAL MANAGER NPG INFORMED OF ALL DEVIATIONS BY MEMORANDUM WHICH JUSTIFIES CAUSE FOR THE DEVIATIONS. CONTRARY TO THE ABOVE, ON SEPTEMBER 25, 1987, IT WAS DETERMINED THAT DEVIATIONS FROM THE GUIDELINES AS STATED IN SECTION 5.3 OF OAD 9, REV 8, INVOLVING LICENSED SENIOR OPERATORS, LICENSED OPERATORS AND AUXILIARY OPERATORS, HAD OCCURRED ON AT LEAST 17 OCCASIONS DURING THE PERIOD OF AUGUST 9-29, 1987 AND NO MEMORANDUM FROM THE OPERATIONS MANAGER TO THE GENERAL MANAGER, NPG WAS PROVIDED FOR APPROVAL AND JUSTIFICATION OF THE DEVIATION(S).

(8702 4)

Report Period DEC 1987

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

* INDIAN POINT 2 *

ENFORCEMENT SUMMARY

TS 6.8.1 REQUIRES THAT PROCEDURES BE ESTABLISHED AND IMPLEMENTED FOR THE REQUIREMENTS AND RECOMMENDATIONS OF APPENDIX A OF RG. 1.33. SECTION H.2 OF APPENDIX A STATES THAT IMPLEMENTING PROCEDURES ARE REQUIRED FOR EACH SURVEILLANCE TEST LISTED IN TS. TS 4.1 REQUIRES THAT CHANNEL CHECKS BE PERFORMED. CONTRARY TO THE ABOVE, IN SEPTEMBER 1987 PROCEDURES WERE NOT IN PLACE TO IMPLEMENT AND DOCUMENT THE CHANNEL CHECK PROGRAM REQUIRED BY TS.
(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.

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: 50-286 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 1000

9. If Changes Occur Above Since Last Report, Give Reasons:
TWO BAFFLE ASSEMB ON LOW PRESS TURBINE REPLACED WITH BLADE

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

11. Reasons for Restrictions, If Any: NONE

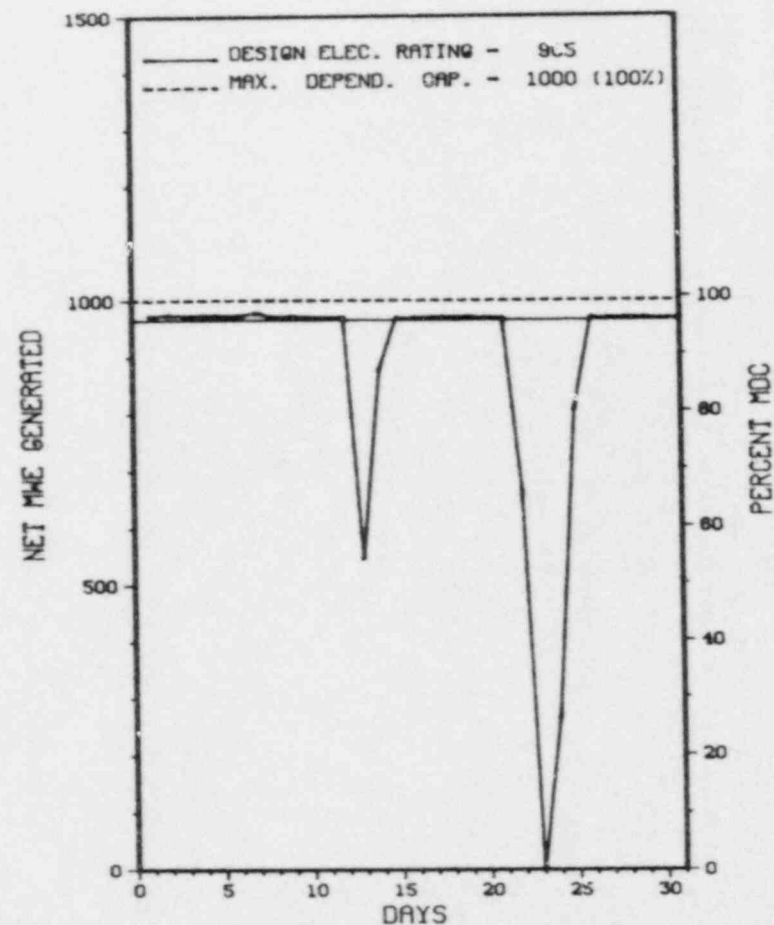
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>99,385.0</u>
13. Hours Reactor Critical	<u>715.7</u>	<u>5,496.5</u>	<u>59,345.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>709.8</u>	<u>5,399.9</u>	<u>57,465.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,062,215</u>	<u>15,562,099</u>	<u>152,012,143</u>
18. Gross Elec Ener (MWH)	<u>681,660</u>	<u>5,033,590</u>	<u>48,378,056</u>
19. Net Elec Ener (MWH)	<u>658,111</u>	<u>4,850,586</u>	<u>46,390,558</u>
20. Unit Service Factor	<u>95.4</u>	<u>61.6</u>	<u>57.8</u>
21. Unit Avail Factor	<u>95.4</u>	<u>61.6</u>	<u>57.8</u>
22. Unit Cap Factor (MDC Net)	<u>88.5</u>	<u>58.3</u>	<u>46.7</u>
23. Unit Cap Factor (DER Net)	<u>91.7</u>	<u>57.4</u>	<u>48.4</u>
24. Unit Forced Outage Rate	<u>4.6</u>	<u>2.6</u>	<u>18.6</u>
25. Forced Outage Hours	<u>34.2</u>	<u>146.9</u>	<u>13,089.4</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

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

 * INDIAN POINT 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

INDIAN POINT 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * INDIAN POINT 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
07	12/13/87	F	0.0	B	5		CJ	PIPEXX	IN ORDER TO MINIMIZE PERSONNEL RADIATION EXPOSURE REFUELING MAINTENANCE ON NO. 34 REACTOR COOLANT PUMP, A LOAD REDUCTION FROM 100% REACTOR POWER TO 35% REACTOR POWER WAS PERFORMED.
08	12/22/87	F	34.2	B	3	87-012-00	IA	RELAYX	WHILE PERFORMING A MONTHLY SURVEILLANCE TEST ON THE REACTOR COOLANT LOW FLOW PROTECTION SYSTEM, A UNIT TRIP OCCURRED. THE MANUAL TRIPPING OF A BISTABLE TRIP SWITCH, IN CONJUNCTION WITH A HIGH RESISTANCE CONTACT ON ANOTHER RELAY, ESTABLISHED THE LOW REACTOR COOLANT FLOW TRIP MATRIX. AFTER THE FAULTY RELAY WAS REPLACED AND A SAMPLE OF LOGIC RELAYS WERE INSPECTED, THE UNIT WAS RETURNED TO SERVICE.

 * SUMMARY *

 INDIAN POINT 3 INCURRED 1 POWER REDUCTION AND 1 OUTAGE IN DECEMBER AS INDICATED 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 3 *

FACILITY DATA

Report Period DEC 1987

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

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period DEC 1987

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

* INDIAN POINT 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

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NO INPUT PROVIDED.			

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1. Docket: 50-305 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>118,729.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,860.9</u>	<u>101,462.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,330.5</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,811.0</u>	<u>99,881.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>10.0</u>
17. Gross Therm Ener (MWH)	<u>1,215,302</u>	<u>12,615,259</u>	<u>157,419,874</u>
18. Gross Elec Ener (MWH)	<u>403,200</u>	<u>4,204,500</u>	<u>51,987,100</u>
19. Net Elec Ener (MWH)	<u>385,183</u>	<u>4,008,624</u>	<u>49,504,510</u>
20. Unit Service Factor	<u>100.0</u>	<u>89.2</u>	<u>84.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>89.2</u>	<u>84.1</u>
22. Unit Cap Factor (MDC Net)	<u>102.9</u>	<u>91.0</u>	<u>80.9*</u>
23. Unit Cap Factor (DER Net)	<u>96.8</u>	<u>85.5</u>	<u>77.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.2</u>	<u>2.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>18.9</u>	<u>2,838.8</u>

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

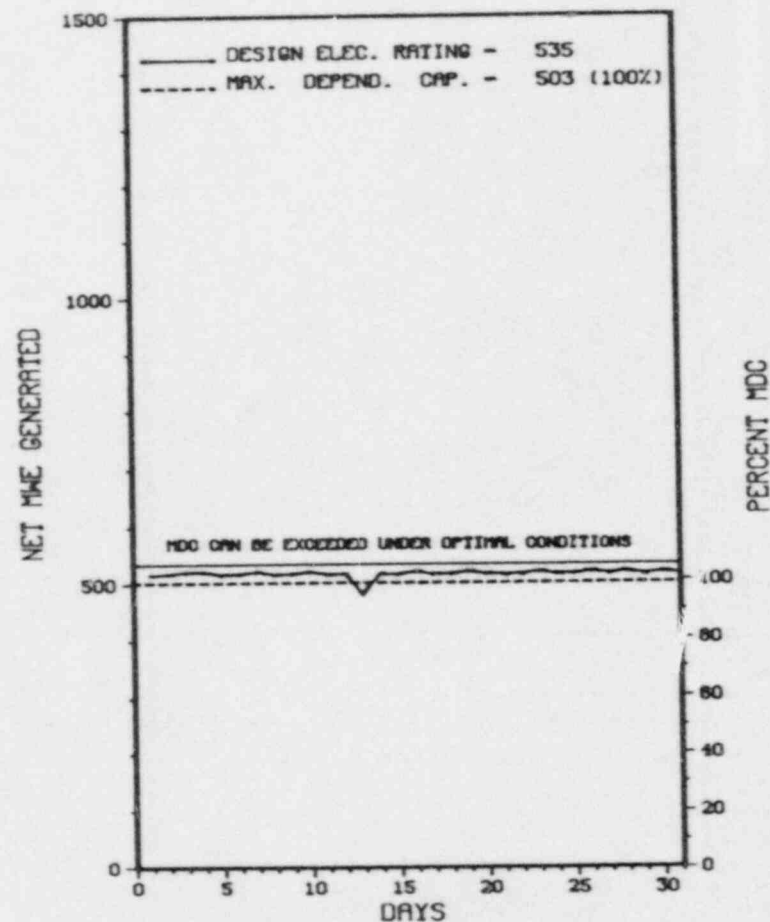
REFUELING - MARCH 4, 1988 - 6 WEEK DURATION.

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

* KEWAUNEE *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

KEWAUNEE



DECEMBER 1987

* Item calculated with a Weighted Average

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Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* Kewaunee *

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

* SUMMARY *

KEWAUNEE OPERATED ROUTINELY IN DECEMBER 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)

* KEWAUNEE *

FACILITY DATA

Report Period DEC 1987

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.....T. QUAY
DOCKET NUMBER.....50-505
LICENSE & DATE ISSUANCE...DPR-43, DECEMBER 21, 1973
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF WISCONSIN
LIBRARY LEARNING CENTER
2420 NICOLET DRIVE
GREEN BAY, WISCONSIN 54301

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 19-22, 1987, (87018): ROUTINE, ANNOUNCED INSPECTION OF THE KEWAUNEE NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS EXERCISE INVOLVING OBSERVATIONS BY SIX NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. THE INSPECTION INVOLVED FIVE NRC INSPECTORS AND ONE CONSULTANT. ALTHOUGH NO ITEMS OF NONCOMPLIANCE, DEFICIENCIES, OR DEVIATIONS WERE IDENTIFIED, ONE EXERCISE WEAKNESS WHICH WILL REQUIRE CORRECTIVE ACTION IS IDENTIFIED IN THIS REPORT AND IN THE APPENDIX 10 THE REPORT'S TRANSMITTAL LETTER.

INSPECTION ON OCTOBER 1, 1987 THROUGH NOVEMBER 15, 1987 (87018): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTOR OF OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; LICENSEE EVENT REPORTS AND GENERIC LETTER FOLLOWUP. NO SIGNIFICANT SAFETY ISSUES WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

INSPECTION STATUS - (CONTINUED)

PAGE 2-203

1. Docket: 50-373 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 990

11. Reasons for Restrictions, If Any: ADMINISTRATIVE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>35,064.0</u>
13. Hours Reactor Critical	<u>669.9</u>	<u>5,609.1</u>	<u>20,043.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,640.9</u>
15. Hrs Generator On-Line	<u>656.3</u>	<u>5,456.8</u>	<u>19,428.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1.0</u>
17. Gross Therm Ener (MWH)	<u>1,726,440</u>	<u>13,078,656</u>	<u>57,970,316</u>
18. Gross Elec Ener (MWH)	<u>564,502</u>	<u>4,276,582</u>	<u>16,967,259</u>
19. Net Elec Ener (MWH)	<u>541,250</u>	<u>4,076,067</u>	<u>16,109,788</u>
20. Unit Service Factor	<u>88.2</u>	<u>62.3</u>	<u>55.4</u>
21. Unit Avail Factor	<u>88.2</u>	<u>62.3</u>	<u>55.4</u>
22. Unit Cap Factor (MDC Net)	<u>70.2</u>	<u>44.9</u>	<u>44.3</u>
23. Unit Cap Factor (DER Net)	<u>67.5</u>	<u>43.2</u>	<u>42.6</u>
24. Unit Forced Outage Rate	<u>11.8</u>	<u>12.0</u>	<u>14.4</u>
25. Forced Outage Hours	<u>87.7</u>	<u>745.5</u>	<u>3,264.6</u>

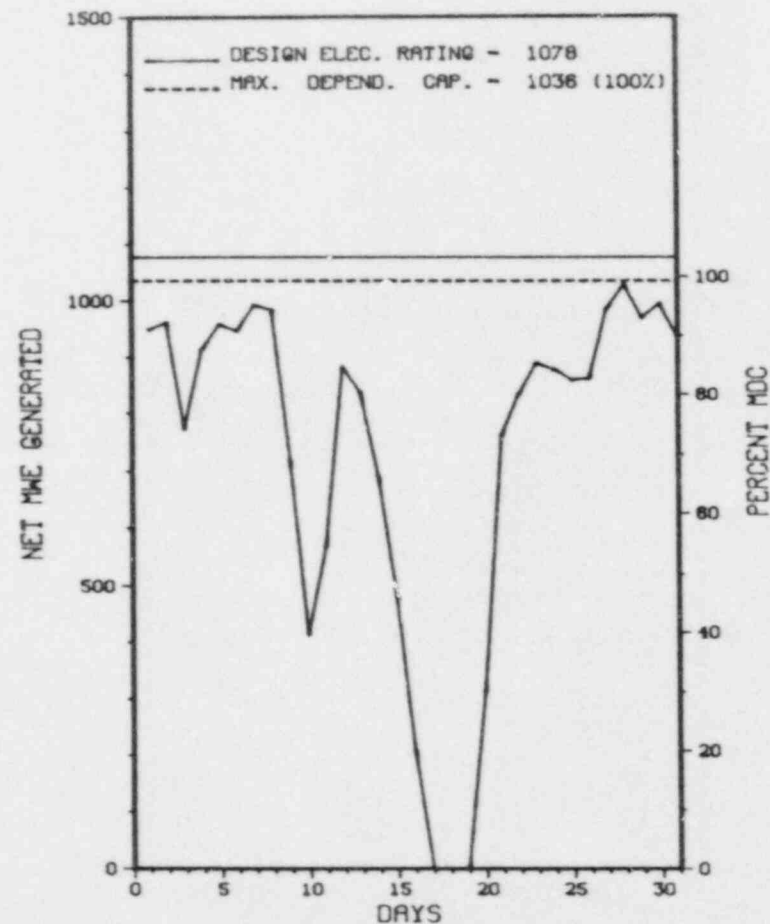
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - MARCH 1988 - 12 WEEK DURATION.

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

* LASALLE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

LASALLE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * LASALLE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
9	12/16/87	F	87.7	A	3			SCRAM ON LOSS OF FEEDWATER DUE TO HEATER STRING ISOLATION.

 * SUMMARY *

 LASALLE 1 INCURRED 1 FORCED OUTAGE IN DECEMBER DUE TO HEATER STRING ISOLATION.

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 (HUREU-0161)

 * LASALLE 1 *

FACILITY DATA

Report Period DEC 1987

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...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 & 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. SHERANSKI
 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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 3 THROUGH NOVEMBER 30, 1987 (87033;87032) ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; REGIONAL REQUESTS; AND INFORMATION MEETINGS WITH LOCAL OFFICIALS. OF THE EIGHT AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN SEVEN AREAS; ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA (FAILURE TO ADHERE TO PROCEDURES). THE LICENSED OPERATORS AGAIN SHOWED THEIR PROFICIENCY IN RECOGNIZING THE PROBLEMS WITH THE FEEDWATER SYSTEM AND BY TAKING PROMPT ACTION TO PREVENT AN UNNECESSARY SCRAM. HOWEVER, PERSONNEL ERRORS AGAIN CAUSED PROBLEMS AT THE SITE SUCH AS THE RADWASTE FACILITY NEEDED TO BE DECONTAMINATED DUE TO A SPILL. ALSO A CONCERN WAS RAISED BY THE INSPECTORS HAVING TO DO WITH STORAGE OF EQUIPMENT IN THE REACTOR BUILDING. THE OVERALL PERFORMANCE OF THE SITE FOR THE MONTH APPEARED TO BE GOOD. SUCH THAT, BOTH UNITS RAN THE ENTIRE MONTH.

INSPECTION ON OCTOBER 13-16, 21 AND 22, 1987 (87031; 87030): ROUTINE, ANNOUNCED INSPECTION OF: (1) QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSIS; (2) COLLECTION OF COLLOCATED TLD MEASUREMENT RESULTS AND VERIFICATION OF LOCATION; AND (3) ACTION ON AN OPEN ITEM IDENTIFIED DURING A PREVIOUS INSPECTION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

INSPECTION ON SEPTEMBER 22 THROUGH NOVEMBER 3, 1987 (87030; 87024): ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; COLD WEATHER PREPARATION; RECEIPT OF NEW FUEL; GENERAL SITE EMERGENCY PLAN DRILL; REGIONAL REQUESTS; AND HEADQUARTERS REQUESTS. OF THE ELEVEN AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN TEN AREAS; ONE VIOLATION WAS

INSPECTION SUMMARY

IDENTIFIED IN THE REMAINING AREA (FAILURE TO FOLLOW PROCEDURES). DURING THIS MONTH, SEVERAL PERSONNEL ERRORS AND PROCEDURAL ERRORS OCCURRED, INDICATING A REDUCTION IN THE ATTENTIVENESS TO DETAIL BY THE PLANT WORKERS. THIS WAS BROUGHT TO THE ATTENTION OF THE PLANT MANAGEMENT DURING THE INSPECTION PERIOD AND AT THE EXIT MEETING. PLANT MANAGEMENT STATED ACTION HAS BEEN TAKEN TO APPRAISE STATION WORKERS OF THESE EVENTS, AS WELL AS SOME OTHER MINOR EVENTS, TO INCREASE THEIR ATTENTION TO DETAIL. THE INSPECTORS WILL MONITOR THE RESULTS OF THESE ACTIONS.

INSPECTION ON OCTOBER 14 THROUGH NOVEMBER 5, 1987 (87032; 87031): ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIATION PROTECTION PROGRAM, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS, TRAINING AND QUALIFICATIONS, INTERNAL AND EXTERNAL EXPOSURE ASSESSMENT AND CONTROL, AUDITS, ALARA ACTIVITIES, HOT PARTICLE CONTAMINATION EVENTS, AND AN INCIDENT CONCERNING PERSONNEL CONTAMINATIONS CAUSED AS A RESULT OF EXHAUST BLOWER SHUTDOWNS. ONE VIOLATION WAS IDENTIFIED IN ONE AREA (INADEQUATE PROCEDURES FOR USE AND SHUTDOWN OF THE RADWASTE BUILDING HEATING AND VENTILATION SYSTEMS). INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87025; 87023; 87027; 87028): SPECIAL, ANNOUNCED CLOSEOUT INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

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 FOLLOWING RETURN TO POWER ON 12/19/87 AFTER SCRAM 12/16/87.

LAST IE SITE INSPECTION DATE: 02/01/88

Report Period DEC 1987

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

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X LASALLE 1 X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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      DATE OF      SUBJECT
            EVENT       REPORT
-----
87-35      110887      120787      SPURIOUS AMMONIA DETECTOR TRIP DUE TO FAILURE OF THE DETECTOR'S FRONT OPTICS INDICATOR LAMP
87-36      111487      120987      SPURIOUS AMMONIA DETECTOR TRIP DUE TO BROKEN CHEMCASSETTE TAPE (DESIGN DEFICIENCY)
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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: 12/01/87 Outage + On-line Hrs: 744.0

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

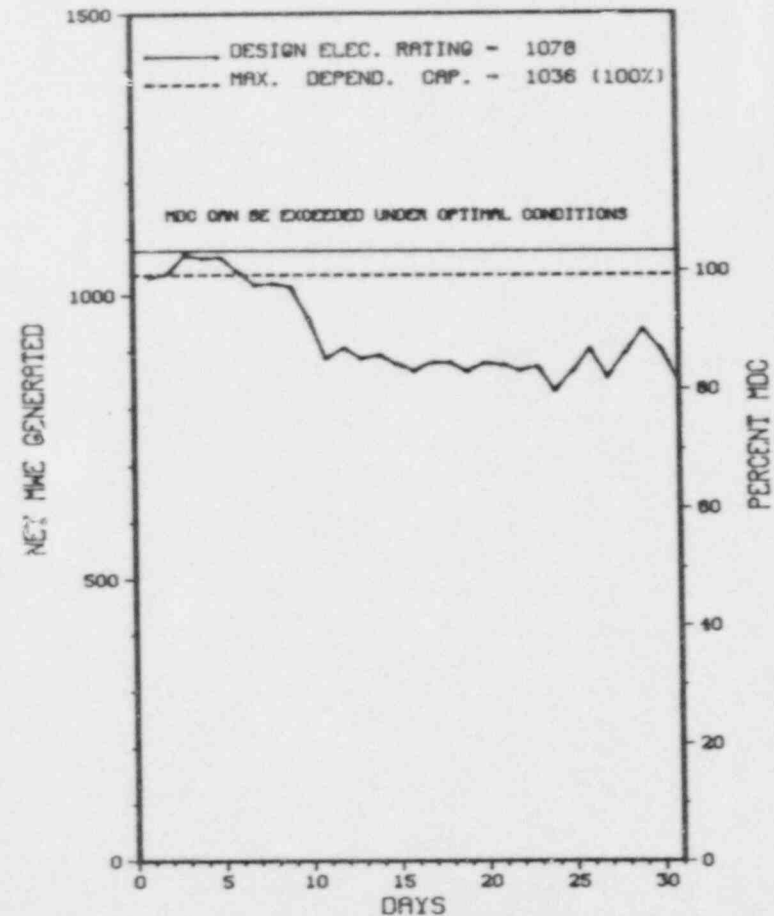
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>28,056.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>4,781.4</u>	<u>16,784.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,716.7</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>4,700.2</u>	<u>16,472.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,161,464</u>	<u>14,280,792</u>	<u>47,795,055</u>
18. Gross Elec Ener (MWH)	<u>717,566</u>	<u>4,746,639</u>	<u>15,808,211</u>
19. Net Elec Ener (MWH)	<u>691,754</u>	<u>4,542,494</u>	<u>15,082,523</u>
20. Unit Service Factor	<u>100.0</u>	<u>53.7</u>	<u>58.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>53.7</u>	<u>58.7</u>
22. Unit Cap Factor (MDC Net)	<u>89.7</u>	<u>50.1</u>	<u>51.9</u>
23. Unit Cap Factor (DER Net)	<u>86.3</u>	<u>48.1</u>	<u>49.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.6</u>	<u>19.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>78.2</u>	<u>4,099.8</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

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

 * LASALLE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

LASALLE 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * LASALLE 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	12/11/87	S	0.0	B	5				MSIV TESTING "A" TDRFP OFF-LINE.
5	12/19/87	S	0.0	B	5				MSIV SOLENOID TESTING.
6	12/24/87	F	0.0	F	5				PER L.D. REQUEST.

 * SUMMARY *

 LASALLE 2 INCURRED 3 POWER REDUCTIONS IN DECEMBER 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)

* LASALLE 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 3 THROUGH NOVEMBER 30, 1987 (87033;87032) ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; REGIONAL REQUESTS; AND INFORMATION MEETINGS WITH LOCAL OFFICIALS. OF THE EIGHT AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN SEVEN AREAS; ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA (FAILURE TO ADHERE TO PROCEDURES). THE LICENSED OPERATORS AGAIN SHOWED THEIR PROFICIENCY IN RECOGNIZING THE PROBLEMS WITH THE FEEDWATER SYSTEM AND BY TAKING PROMPT ACTION TO PREVENT AN UNNECESSARY SCRAM. HOWEVER, PERSONNEL ERRORS AGAIN CAUSED PROBLEMS AT THE SITE SUCH THAT THE RADWASTE FACILITY NEEDED TO BE DECONTAMINATED DUE TO A SPILL. ALSO A CONCERN WAS RAISED BY THE INSPECTORS HAVING TO DO WITH STORAGE OF EQUIPMENT IN THE REACTOR BUILDING. THE OVERALL PERFORMANCE OF THE SITE FOR THE MONTH APPEARED TO BE GOOD, SUCH THAT, BOTH UNITS RAN THE ENTIRE MONTH.

INSPECTION ON OCTOBER 13-16, 21 AND 22, 1987 (87031; 87030): ROUTINE, ANNOUNCED INSPECTION OF: (1) QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSIS; (2) COLLECTION OF COLLOCATED TLD MEASUREMENT RESULTS AND VERIFICATION OF LOCATION; AND (3) ACTION ON AN OPEN ITEM IDENTIFIED DURING A PREVIOUS INSPECTION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

INSPECTION ON SEPTEMBER 22 THROUGH NOVEMBER 3, 1987 (87030; 87029): ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; COLD WEATHER PREPARATION; RECEIPT OF NEW FUEL; GENERAL SITE EMERGENCY PLAN DRILL; REGIONAL REQUESTS; AND HEADQUARTERS REQUESTS. OF THE ELEVEN AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN TEN AREAS; ONE VIOLATION WAS

INSPECTION SUMMARY

IDENTIFIED IN THE REMAINING AREA (FAILURE TO FOLLOW PROCEDURES). DURING THIS MONTH, SEVERAL PERSONNEL ERRORS AND PROCEDURAL ERRORS OCCURRED, INDICATING A REDUCTION IN THE ATTENTIVENESS TO DETAIL BY THE PLANT WORKERS. THIS WAS BROUGHT TO THE ATTENTION OF THE PLANT MANAGEMENT DURING THE INSPECTION PERIOD AND AT THE EXIT MEETING. PLANT MANAGEMENT STATED ACTION HAS BEEN TAKEN TO APPRAISE STATION WORKERS OF THESE EVENTS, AS WELL AS SOME OTHER MINOR EVENTS, TO INCREASE THEIR ATTENTION TO DETAIL. THE INSPECTORS WILL MONITOR THE RESULTS OF THESE ACTIONS.

INSPECTION ON OCTOBER 14 THROUGH NOVEMBER 5, 1987 (87032; 87031): ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIATION PROTECTION PROGRAM, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS, TRAINING AND QUALIFICATIONS, INTERNAL AND EXTERNAL EXPOSURE ASSESSMENT AND CONTROL, AUDITS, ALARA ACTIVITIES, HOT PARTICLE CONTAMINATION EVENTS, AND AN INCIDENT CONCERNING PERSONNEL CONTAMINATIONS CAUSED AS A RESULT OF EXHAUST BLOWER SHUTDOWNS. ONE VIOLATION WAS IDENTIFIED IN ONE AREA (INADEQUATE PROCEDURES FOR USE AND SHUTDOWN OF THE RADWASTE BUILDING HEATING AND VENTILATION SYSTEMS).

INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87023; 87023; 87027; 87028): SPECIAL, ANNOUNCED CLOSEOUT INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT OPERATING AT FULL POWER.

LAST IE SITE INSPECTION DATE: 02/01/88

Report Period DEC 1987

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

* LASALLE 2 *

OTHER ITEMS

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

87-20	111987	121887	FAILURE OF SEVERAL SOR DIFFERENTIAL PRESSURE SWITCHES DUE TO DIAPHRAGM FAILURES
=====			

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1. Docket: 50-352 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>16,776.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,127.0</u>	<u>12,846.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,926.7</u>	<u>12,562.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,377,260</u>	<u>17,298,219</u>	<u>38,896,381</u>
18. Gross Elec Ener (MWH)	<u>778,310</u>	<u>5,572,530</u>	<u>12,699,410</u>
19. Net Elec Ener (MWH)	<u>751,250</u>	<u>5,318,987</u>	<u>12,167,837</u>
20. Unit Service Factor	<u>100.0</u>	<u>67.7</u>	<u>74.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>67.7</u>	<u>74.9</u>
22. Unit Cap Factor (MDC Net)	<u>95.7</u>	<u>57.6</u>	<u>68.7</u>
23. Unit Cap Factor (DER Net)	<u>95.7</u>	<u>57.6</u>	<u>68.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>4.1</u>	<u>3.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>254.2</u>	<u>491.9</u>

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

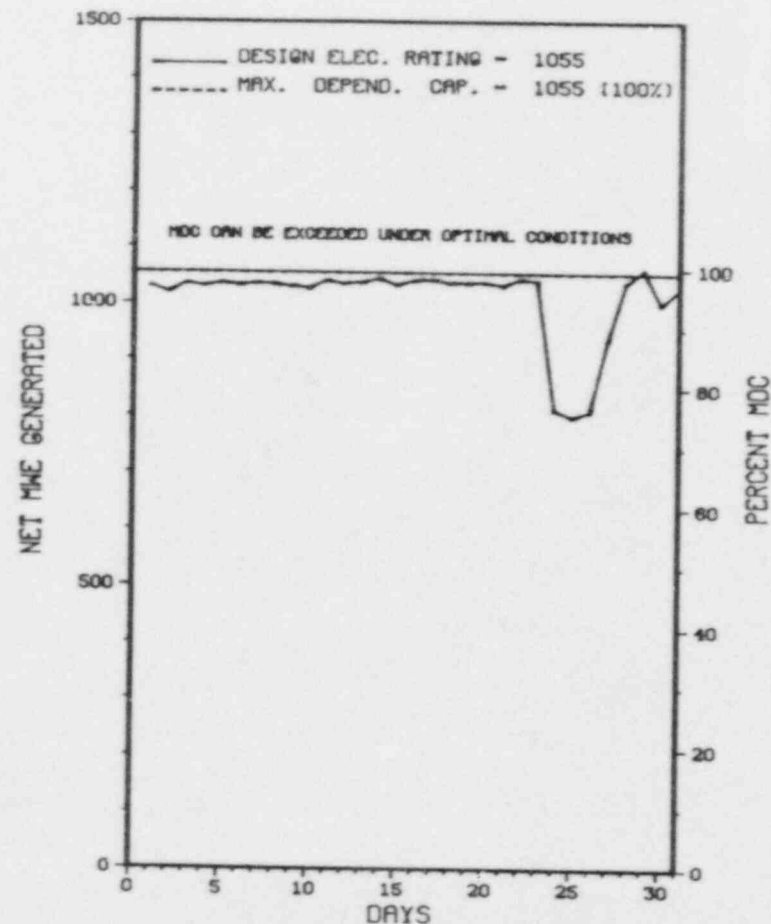
NONE

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

* LIMERICK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

LIMERICK 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * LIMERICK 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
17	12/24/87	F	0.0	H	5		RB	DEMINX	RESIN WAS INADVERTENTLY INTRODUCED INTO THE REACTOR VESSEL DUE TO A PROCEDURAL DEFICIENCY/OPERATIONAL ERROR. PROCEDURES HAVE BEEN REVISED TO CLARIFY STEPS AND ADD WARNINGS TO PREVENT RECURRENCE.

 * SUMMARY *

 LIMERICK 1 INCURRED 1 POWER REDUCTION IN DECEMBER FOR REASON STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
5-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)

* LIMERICK 1 *

F A C I L I T Y D A T A

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA
COUNTY.....MONTGOMERY
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...21 MI NW OF
PHILADELPHIA,PA
TYPE OF REACTOR.....BWR
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.

Report Period DEC 1987

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

* LIMERICK 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.			

=====

1. Docket: 50-309 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 850

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):

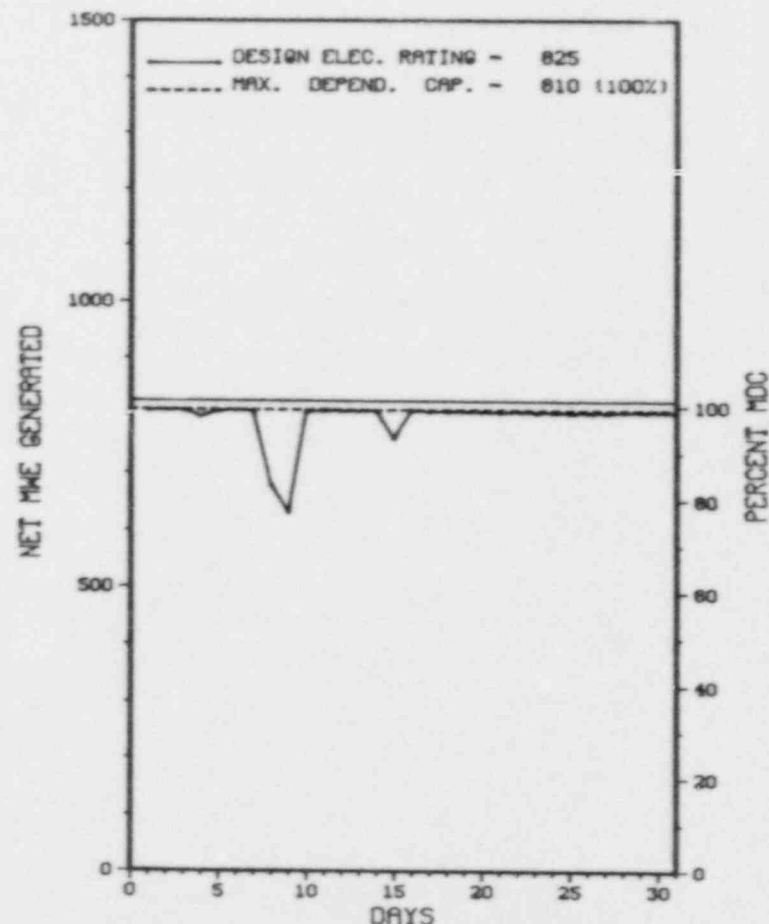
11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>132,756.6</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>5,724.4</u>	<u>105,852.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,415.4</u>	<u>102,658.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,928,539</u>	<u>13,103,019</u>	<u>234,360,334</u>
18. Gross Elec Ener (MWH)	<u>611,880</u>	<u>4,187,720</u>	<u>76,888,730</u>
19. Net Elec Ener (MWH)	<u>591,823</u>	<u>4,042,901</u>	<u>73,474,949</u>
20. Unit Service Factor	<u>100.0</u>	<u>61.8</u>	<u>77.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>61.8</u>	<u>77.3</u>
22. Unit Cap Factor (MDC Net)	<u>98.2</u>	<u>57.0</u>	<u>69.9*</u>
23. Unit Cap Factor (DER Net)	<u>96.4</u>	<u>55.9</u>	<u>68.2*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>20.0</u>	<u>7.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,351.5</u>	<u>7,710.6</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

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

* MAINE YANKEE *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
MAINE YANKEE



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * MAINE YANKEE *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
	12/08/87	S	0.0	B	5		HA	VALVEX	REDUCED POWER FOR TURBINE VALE AND EXCESS FLOW CHECK VALVE TESTING, TRAVELING WATER SCREEN AND WATER BOX INSPECTION AND MUSSEL CONTROL.
	12/15/87	F	0.0	B	5		EA	ELECON	REDUCED POWER TO ALLOW MAINTENANCE TO TRANSMISSION LINE.

 * SUMMARY *

 MAINE YANKEE INCURRED 2 POWER REDUCTIONS IN DECEMBER 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)

* MAINE YANKEE *

F A C I L I T Y D A T A

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....MAINE
COUNTY.....LINCOLN
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...10 MI N OF
BATH, ME
TYPE OF REACTOR.....PWR
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 DEC 1987

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

X MAINE YANKEE X

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
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NO INPUT PROVIDED.

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1. Docket: 50-369 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 1180

7. Maximum Dependable Capacity (Gross MWe): 1225

8. Maximum Dependable Capacity (Net MWe): 1150

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>744.0</u>	<u>8,760.0</u>	<u>53,528.0</u>
13. Hours Reactor Critical	<u>722.2</u>	<u>6,835.7</u>	<u>36,864.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>718.0</u>	<u>6,715.8</u>	<u>36,343.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,251,637</u>	<u>22,115,369</u>	<u>105,068,417</u>
18. Gross Elec Ener (MWH)	<u>793,246</u>	<u>7,660,980</u>	<u>36,395,577</u>
19. Net Elec Ener (MWH)	<u>762,176</u>	<u>7,348,715</u>	<u>34,665,498</u>
20. Unit Service Factor	<u>96.5</u>	<u>76.7</u>	<u>68.2</u>
21. Unit Avail Factor	<u>96.5</u>	<u>76.7</u>	<u>68.2</u>
22. Unit Cap Factor (MDC Net)	<u>89.1</u>	<u>72.9</u>	<u>56.5</u>
23. Unit Cap Factor (DER Net)	<u>86.8</u>	<u>71.2</u>	<u>55.1</u>
24. Unit Forced Outage Rate	<u>3.5</u>	<u>4.8</u>	<u>14.2</u>
25. Forced Outage Hours	<u>26.0</u>	<u>336.8</u>	<u>6,022.7</u>

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

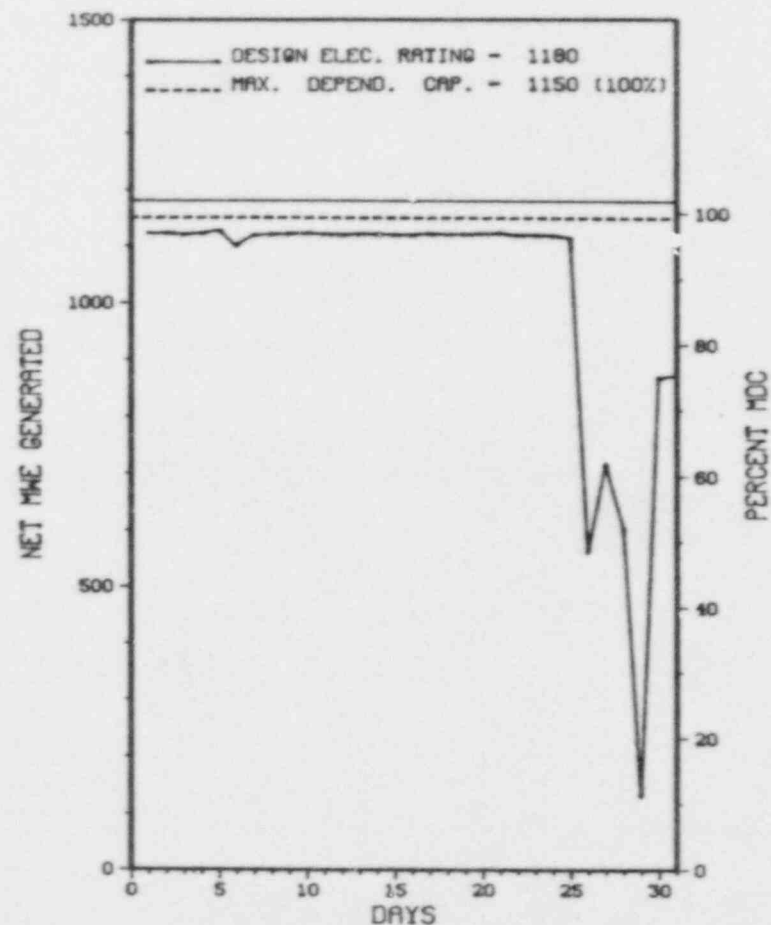
NONE

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

* MCGUIRE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* MCGUIRE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
40-P	12/01/87	F	0.0	A	5		HB	VALVEX	#4 GOVERNOR VALVE PROBLEMS
41-P	12/06/87	S	0.0	B	5		HB	VALVEX	#4 GOVERNOR VALVE TESTING
42-P	12/06/87	F	0.0	A	5		HB	VALVEX	#4 GOVERNOR VALVE PROBLEMS
43-P	12/26/87	S	0.0	F	5		ZZ	ZZZZZZ	DISPATCHER REQUEST
44-P	12/27/87	S	0.0	B	5		IE	INSTRU	NUCLEAR INSTRUMENTATION CALIBRATION
45-P	12/27/87	F	0.0	A	5		HB	VALVEX	#4 GOVERNOR VALVE PROBLEMS
11	12/28/87	F	26.0	H	3		ZZ	ZZZZZZ	DURING TESTING OF S/G LEVEL INDICATOR CHANNEL 2, A CARD WAS PULLED ON CHANNEL 4 DUE TO PROCEDURE PROBLEM.
46-P	12/30/87	F	0.0	B	5		IE	INSTRU	NUCLEAR INSTRUMENT CALIBRATION
47-P	12/31/87	S	0.0	F	5		ZZ	ZZZZZZ	DISPATCHER REQUEST

* SUMMARY *

MCGUIRE 1 INCURRED SEVERAL POWER REDUCTIONS AND 1 OUTAGE IN DECEMBER 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)

* MCGUIRE 1 *

FACILITY DATA

Report Period DEC 1987

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 17, 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 STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 21 - NOVEMBER 20 (87-41): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, FOLLOW-UP OF PREVIOUS INSPECTION FINDINGS AND UNIT 1 REFUELING AND STARTUP ACTIVITIES. IN THE AREAS INSPECTED, ONE VIOLATION INVOLVING TWO EXAMPLES OF PROCEDURE NON-COMPLIANCE WAS IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: OCTOBER 21 - NOVEMBER 20, 1987 +

INSPECTION REPORT NO: 50-369/87-41 +

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
87-025	10/25/87	11/24/87	PZR DISSOLVED OXYGEN WAS NOT VERIFIED TO BE WITHIN LIMITS OF T S PRIOR TO EXCEEDING PZR TEMP OF 250F DUE TO MGT DEFICIENT
87-027	10/29/87	12/21/87	ENTERED HOT SHUTDOWN WITHOUT CONTAINMENT SPRAY HEAT EXCHANGE 1B COOLING WATER INLET VALVE BEING RETESTED PERSONNEL ERROR
87-028	11/20/87	12/21/87	MANUAL ACTUATION OF AUCILIARY FEEDWATER SYSTEM TO PREVENT A REACTOR TRIP ON LOW STEAM GENERATOR 1D LEVEL BECAUSE OF VALVE
87-029	11/19/87	12/21/87	UNIDENTIFIED RCS LEAKAGE GREATER THAN 1 GPM CAUSED UNIT SHUTDOWN AS A RESULT OF VALVE PK FAILURE DEFECTIVE PROCEDURE
87-030	09/08/87	12/21/87	A D/G FUEL OIL ISOL VLV WAS MISTAKENLY CLOSED DUE TO BEING MISLABELED-CAUSED D/G INOPER-RESULT OF DEFECTIVE PROCEDURE
87-031	11/25/87	12/28/87	UNIT 1 ENTERED TECH SPEC 3.0.3 WHEN BOTH COMPONENT COOLING HEAT EXCHANGERS WERE DECLARED INOPERABLE DUE TO EQUIPMENT FAILURE
87-032	11/08/87	12/30/87	A FIRE BARRIER WAS INOPERABLE FOR AN UNDETERMINED AMOUNT OF TIME THE CAUSE COULD NOT BE DETERMINED

1. Docket: 50-370 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 1150

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>744.0</u>	<u>8,760.0</u>	<u>33,624.0</u>
13. Hours Reactor Critical	<u>734.0</u>	<u>7,046.9</u>	<u>24,446.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>732.4</u>	<u>6,957.1</u>	<u>23,827.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,449,205</u>	<u>22,544,550</u>	<u>78,245,604</u>
18. Gross Elec Ener (MWH)	<u>858,613</u>	<u>7,885,813</u>	<u>27,075,228</u>
19. Net Elec Ener (MWH)	<u>826,469</u>	<u>7,572,577</u>	<u>25,936,002</u>
20. Unit Service Factor	<u>98.4</u>	<u>79.4</u>	<u>70.9</u>
21. Unit Avail Factor	<u>98.4</u>	<u>79.4</u>	<u>70.9</u>
22. Unit Cap Factor (MDC Net)	<u>96.6</u>	<u>75.2</u>	<u>67.1</u>
23. Unit Cap Factor (DER Net)	<u>94.1</u>	<u>73.4</u>	<u>65.4</u>
24. Unit Forced Outage Rate	<u>1.6</u>	<u>3.3</u>	<u>12.5</u>
25. Forced Outage Hours	<u>11.6</u>	<u>234.5</u>	<u>3,394.5</u>

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

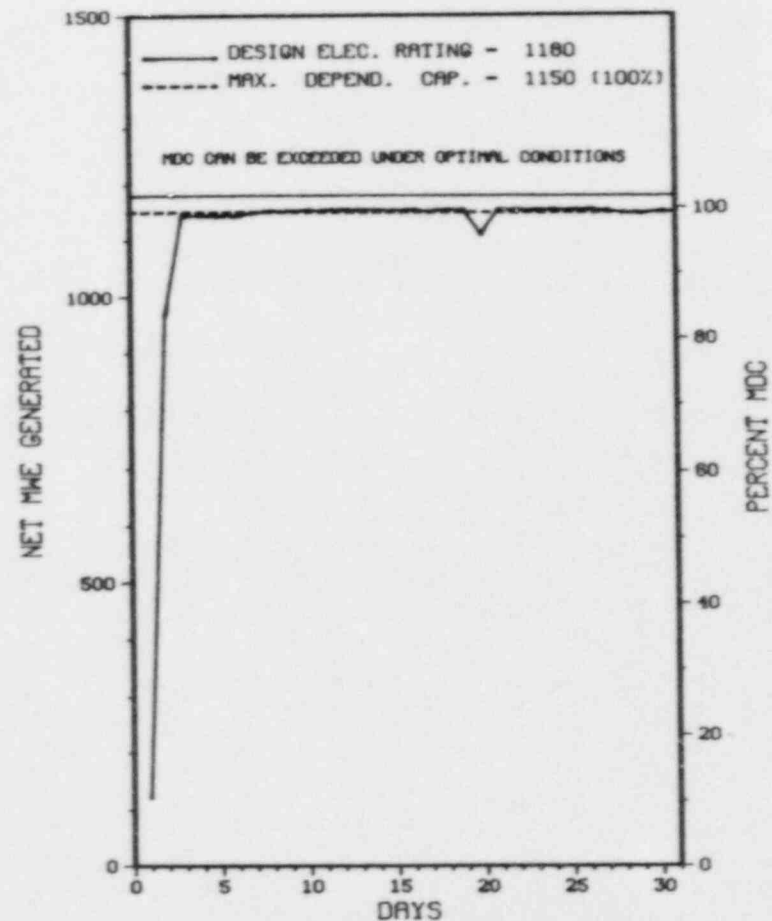
REFUELING - MAY 27, 1988 - 10 WEEK DURATION.

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

* MCGUIRE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * MCGUIRE 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8	11/30/87	F	11.6	A	3		HA	CKTBKR	LO GENERATOR STATOR COOLING WATER FLOW TRIPPED THE GENERATOR BREAKERS
39-P	12/01/87	F	0.0	F	5		HG	XXXXXX	HOLD FOR SECONDARY CHEMISTRY
40-P	12/20/87	F	0.0	A	5		ZZ	XXXXXX	TRAIN 'B' H2 MITIGATION CRT 3 OUT OF TOLERANCE DUE TO MALFUNCTION OF TEST EQUIP.

 * SUMMARY *

MCGUIRE 2 INCURRED 1 POWER OUTAGE AND 2 REDUCTIONS IN DECEMBER 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)

* MCGUIRE 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 21 - NOVEMBER 20 (87-41): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, FOLLOW-UP OF PREVIOUS INSPECTION FINDINGS AND UNIT 1 REFUELING AND STARTUP ACTIVITIES. IN THE AREAS INSPECTED, ONE VIOLATION INVOLVING TWO EXAMPLES OF PROCEDURE NON-COMPLIANCE WAS IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* MCGUIRE 2 *

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: OCTOBER 21 - NOVEMBER 20, 1987 +

INSPECTION REPORT NO: 50-370/87-41 +

REPORTS FROM LICENSEE

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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NONE.

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1. Docket: 50-245 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: G. NEHBURGH (203) 447-1791 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

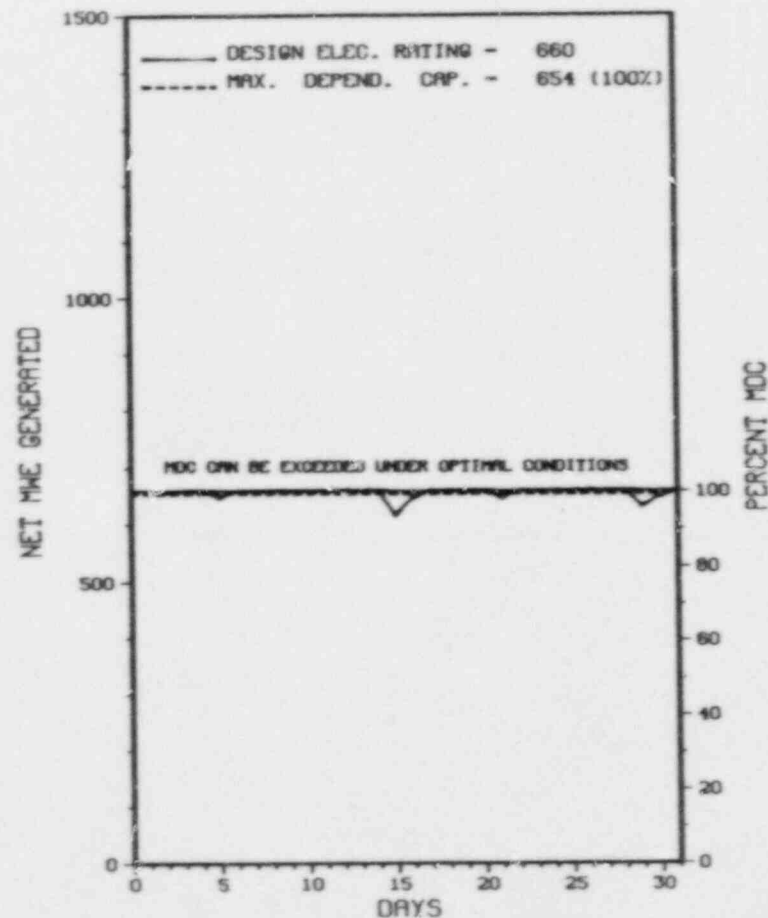
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>149,808.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,970.7</u>	<u>116,326.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,233.3</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,827.1</u>	<u>113,192.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>277.4</u>
17. Gross Therm Ener (MWH)	<u>1,478,855</u>	<u>13,448,022</u>	<u>210,206,093</u>
18. Gross Elec Ener (MWH)	<u>507,400</u>	<u>4,584,600</u>	<u>70,776,596</u>
19. Net Elec Ener (MWH)	<u>485,716</u>	<u>4,377,008</u>	<u>67,517,461</u>
20. Unit Service Factor	<u>100.0</u>	<u>77.9</u>	<u>75.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>77.9</u>	<u>75.7</u>
22. Unit Cap Factor (MDC Net)	<u>99.8</u>	<u>76.4</u>	<u>68.9</u>
23. Unit Cap Factor (DER Net)	<u>98.9</u>	<u>75.7</u>	<u>68.3</u>
24. Unit Forced Out-ge Rate	<u>.0</u>	<u>1.3</u>	<u>11.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>92.1</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: N/A

* MILLSTONE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

X MILLSTONE 1 X

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

* SUMMARY *

MILLSTONE 1 OPERATED ROUTINELY IN DECEMBER WITH NO OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
3-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 DEC 1987

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.....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

INSPECTION STATUS

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.

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X          MILLSTONE 1          X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PRINT 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
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NO INPUT PROVIDED.

27. If Currently Shutdown Estimated Startup Date: 03/01/88

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* MILLSTONE 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8	12/31/87	S	23.2	C	1				UNIT CURRENTLY IN EOC 8 REFUELING OUTAGE

* SUMMARY *

MILLSTONE 2 OPERATED ROUTINELY IN DECEMBER. BEGAN SCHEDULED REFUELING OUTAGE ON 12/31/87.

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 DEC 1987

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.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....T. REBELOWSKI

LICENSING PROJ MANAGER.....D. JAFFE
JACKET NUMBER.....50-336

LICENSE & DATE ISSUANCE...DPR-65, SEPTEMBER 30, 1975

PUBLIC DOCUMENT ROOM.....WATERFORD PUBLIC LIBRARY
49 ROPE FERRY ROAD
WATERFORD, CONNECTICUT 06385

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 50 APPENDIX R SECTION III.G.2 REQUIRES SEPARATION OF REDUNDANT TRAINS BY A FIRE BARRIER HAVING A 3 HOUR RATING. THE "INTERPRETATIONS" IN GENERIC LETTER 86-10 SPECIFY THAT WHERE A LICENSEE CHOOSES NOT TO SEEK PRIOR NRC REVIEW AND APPROVAL IN THE FORM OF AN EXEMPTION FOR A DEFICIENCY IN AFIRE AREA BOUNDARY AN EVALUATION TO SUPPORT THE ACCEPTABILITY OF THE DEFICIENCY MUST BE PERFORMED AND RETAINED FOR FUTURE NRC AUDIT. CONTRARY TO THE ABOVE, ON JULY 16, 1987, THE FIRE BARRIER SEPARATING THE WEST ELECTRICAL PENETRATION ROOM FROM THE AUXILIARY BUILDING DID NOT HAVE A 3 HOUR RATING BECAUSE A VENTILATION DUCT PENETRATING THIS BARRIER DID NOT HAVE A FIRE DAMPER, NOR HAD THE LICENSEE PERFORMED AN ANALYSIS TO SUPPORT THE ACCEPTABILITY OF THE DEFICIENCY IN THE FIRE BARRIER. 10 CFR 50 APPENDIX R SECTION III.G.2.B REQUIRES SEPARATION OF REDUNDANT SAFE SHUTDOWN EQUIPMENT BY A HORIZONTAL DISTANCE OF MORE THAN 20 FEET WITH NO INTERVENING COMBUSTIBLES. 10 CFR 50.12 SPECIFIES THAT THE COMMISSION MAY GRANT AN EXEMPTION FROM THE ABOVE REQUIREMENT. CONTRARY TO THE ABOVE, THE DISTANCE SEPARATING REDUNDANT AUXILIARY FEEDWATER HEATERS AND THEIR ISOLATION VALVES 2FW43A AND B WAS LESS THAN THE REQUIRED 20 FEET AND THERE WERE INTERVENING COMBUSTIBLES. IN ADDITION NO EXEMPTION FROM THE ABOVE REQUIREMENT WAS REQUESTED. (8701 5)

Report Period DEC 1987

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

* MILLSTONE 2 *

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

=====			
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: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>14,832.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>6,350.7</u>	<u>11,763.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>142.8</u>	<u>226.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>6,234.6</u>	<u>11,590.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>20,539,508</u>	<u>42,269,431</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>7,076,186</u>	<u>13,209,270</u>
19. Net Elec Ener (MWH)	<u>-5,865</u>	<u>6,742,317</u>	<u>12,604,077</u>
20. Unit Service Factor	<u>.0</u>	<u>71.2</u>	<u>78.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>71.2</u>	<u>78.1</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>67.2</u>	<u>74.4</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>66.7</u>	<u>73.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>5.4</u>	<u>8.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>358.4</u>	<u>1,074.5</u>

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

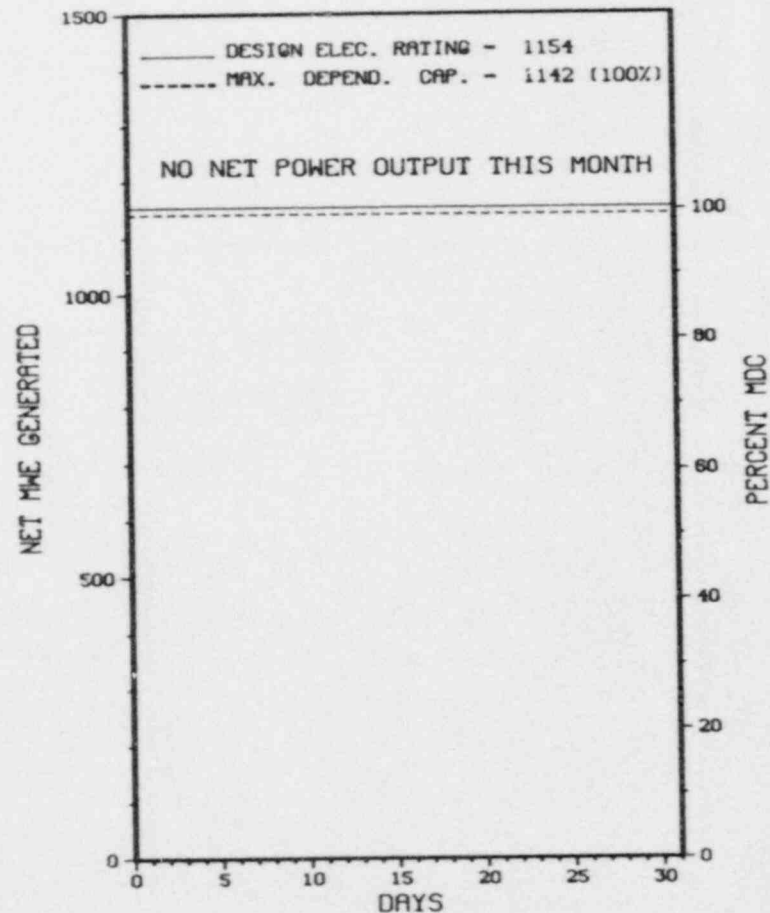
NONE

27. If Currently Shutdown Estimated Startup Date: 01/29/88

* MILLSTONE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* MILLSTONE 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
87-12	10/31/87	S	744.0	C	4			SHUTDOWN CONTINUATION FROM LAST MONTH. REFUEL OUTAGE.

* SUMMARY *

MILLSTONE 3 REMAINED SHUTDOWN IN DECEMBER FOR SCHEDULED REFUELING OUTAGE.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-3ched	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 3 *

F A C I L I T Y D A T A

Report Period DEC 1987

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...NIANTIC 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

INSPECTION STATUS - (CONTINUED)

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X               MILLSTONE 3               X
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INFO. NOT SUPPLIED BY REGION

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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INFO. NOT SUPPLIED BY REGION

1. Docket: 50-263 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>144,673.0</u>
13. Hours Reactor Critical	<u>358.1</u>	<u>7,173.6</u>	<u>112,237.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>940.7</u>
15. Hrs Generator On-Line	<u>307.8</u>	<u>7,052.9</u>	<u>110,013.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>486,667</u>	<u>10,996,454</u>	<u>175,678,074</u>
18. Gross Elec Ener (MWH)	<u>164,978</u>	<u>3,701,444</u>	<u>56,880,056</u>
19. Net Elec Ener (MWH)	<u>156,127</u>	<u>3,533,357</u>	<u>54,371,118</u>
20. Unit Service Factor	<u>41.4</u>	<u>80.5</u>	<u>76.0</u>
21. Unit Avail Factor	<u>41.4</u>	<u>80.5</u>	<u>76.0</u>
22. Unit Cap Factor (MDC Net)	<u>39.2</u>	<u>75.3</u>	<u>70.1</u>
23. Unit Cap Factor (DER Net)	<u>38.5</u>	<u>74.0</u>	<u>69.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.5</u>	<u>4.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>107.5</u>	<u>1,498.3</u>

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

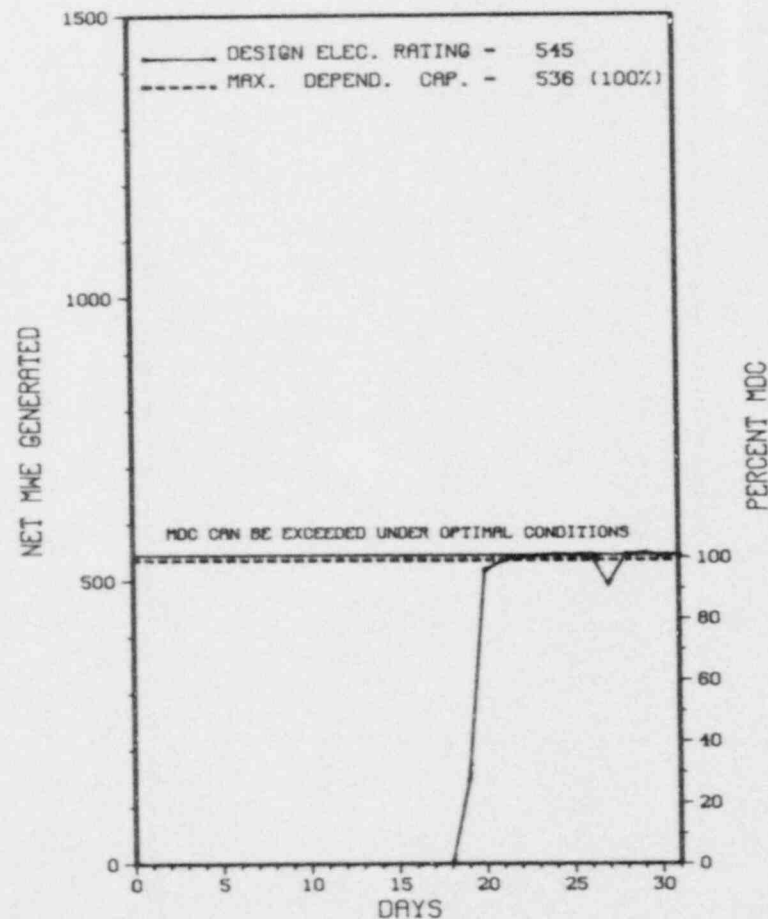
NONE

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

* MONTICELLO *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MONTICELLO



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* MONTICELLO *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
14	10/21/87	S	433.9	C	4				PLANT SHUTDOWN FOR 1987 (EOC12) REFUELING OUTAGE
15	12/19/87	S	2.3	B	1		TA	12	GENERATOR TAKEN OFF-LINE FOR TURBINE OVERSPEED TEST

* SUMMARY *

MONTICELLO COMPLETED SCHEDULED REFUELING OUTAGE IN DECEMBER. SUBSEQUENTLY, INCURRED 1 OUTAGE AS STATED ABOVE.

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)

* MONTICELLO *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 16-18, 1987 (87019): ROUTINE SAFETY INSPECTION OF SNUBBER SURVEILLANCE AND FUNCTIONAL TESTING (70370) AND TRAINING (41400). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

4. TECHNICAL SPECIFICATION 6.5.A REQUIRES PROCEDURES FOR COPING WITH EMERGENCY CONDITIONS INVOLVING POTENTIAL OR ACTUAL RELEASES OF RADIOACTIVITY. TECHNICAL SPECIFICATION 6.5.C REQUIRES PREVENTIVE OR CORRECTIVE MAINTENANCE PROCEDURES FOR PLAN EQUIPMENT AND SYSTEMS THAT COULD HAVE AN EFFECT ON NUCLEAR SAFETY. 10 CFR 50, APPENDIX B, CRITERION V, AS IMPLEMENTED BY THE LICENSEE'S OPERATIONAL QUALITY ASSURANCE PLAN REVISION 10, REQUIRES THAT PROCEDURES AFFECTING QUALITY BE APPROPRIATE TO THE CIRCUMSTANCES. CONTRARY TO THE ABOVE, THE PROCEDURES LISTED BELOW WERE NOT APPROPRIATE TO THE CIRCUMSTANCES. A. THE EMERGENCY OPERATING PROCEDURES (EOPS) DID NOT REFERENCE OPENING WITHIN ONE HOUR, TWO MANUALLY OPERATED VALVES IN THE EMERGENCY SERVICE WATER SYSTEM WHICH IS REQUIRED FOR EXTENDED OPERATION OF ALL EMERGENCY CORE COOLING (ECCS) PUMPS. B. PROCEDURES FOR MOTOR OPERATED VALVE PREVENTATIVE MAINTENANCE INVOLVING LUBRICATION CONTROLS: (1) THE VALVE STEM THREAD LUBRICATION ON MO-2106 WAS DRY. THE LICENSEE HAD NO APPARENT PROCEDURE FOR PERIODIC LUBRICATION OF VALVE STEMS. (2) THE LIMIT SWITCH GEARS IN MO-2106, APPEARED TO BE LUBRICATED WITH MIXED GREASE. THE LICENSEE'S PROCEDURE DID NOT CAUTION AGAINST USE INCOMPATIBLE GREASE NOR WAS THERE A PROGRAM FOR EVALUATING GREASES FOR COMPATIBILITY. (3) UPPER BEARING GREASE ZERKS ON VALVES WERE NOT BEING USED FOR LUBRICATION OF THE

UPPER BEARING AS SPECIFIED BY TUTORQUE. (4) THE PROCEDURE DOES NOT ADDRESS THE COMPATIBILITY OF GREASE ADDED TO THE UPPER BEARING ZERK, VERSUS THAT USED IN THE GEAR CASE. SINCE GREASE ADDED TO THE ZERK FITTING JOINS THAT IN THE GEAR CASE, THE POTENTIAL EXISTS TO HAVE INCOMPATIBLE GREASES MIXED IN THE GEAR CASE. 5. 10 CFR 50, APPENDIX B, CRITERION XVI, AS IMPLEMENTED BY THE LICENSEE'S OPERATIONAL QUALITY ASSURANCE PLAN REVISION 10, REQUIRES THAT MEASURES BE ESTABLISHED TO ASSURE THAT CONDITIONS SIGNIFICANTLY ADVERSE TO QUALITY ARE PROMPTLY IDENTIFIED AND DOCUMENTED, THE CAUSE OF THE CONDITION IDENTIFIED AND DOCUMENTED, AND THE CORRECTIVE ACTION BE DOCUMENTED. CONTRARY TO THE ABOVE, THE LICENSEE FAILED TO TAKE CORRECTIVE ACTION AFTER IDENTIFYING THE INSTALLED MOTOR FOR CORE SPRAY VALVE WJ-1750 WAS NOT PROPERLY REFLECTED BY THE DRAWING. THIS RESULTED IN AN UNDERSIZED FUSE BEING INSTALLED IN THE VALVE BREAKER (4327). FURTHER, DOCUMENTATION OF AS FOUND PROBLEMS, THE CAUSE OF THE PROBLEM, AND CORRECTIVE ACTIONS TAKEN WERE NOT BEING DOCUMENTED. 1. 10 CFR 50, APPENDIX B, CRITERION III, AS IMPLEMENTED BY THE LICENSEE'S OPERATIONAL QUALITY ASSURANCE PLAN REVISION 10, REQUIRES DESIGN CONTROL MEASURES BE PROVIDED FOR VERIFYING OR CHECKING THE ADEQUACY OF DESIGN, SUCH AS BY THE PERFORMANCE OF DESIGN REVIEWS, OR BY THE PERFORMANCE OF A SUITABLE TESTING PROGRAM. CONTRARY TO THE ABOVE, THE DESIGN CALCULATIONS FOR THE 250 VOLT DC BATTERIES AND INSTANTANEOUS OVERCURRENT RELAY SETTING FOR THE CORE SPRAY PUMPS WERE NEITHER REVIEWED OR APPROVED NOR WAS THE SYSTEM SUITABLY TESTED TO DEMONSTRATE ITS DESIGN INTENT. 3. 10 CFR 50, APPENDIX B, CRITERION VI, AS IMPLEMENTED BY THE LICENSEE'S OPERATIONAL QUALITY ASSURANCE PLAN REVISION 10, REQUIRES THAT DOCUMENTATION, AND CHANGES THERETO, AFFECTING QUALITY BE REVIEWED FOR ADEQUACY. 10 CFR 50, APPENDIX B, CRITERION V, AS IMPLEMENTED BY THE LICENSEE'S OPERATIONAL QUALITY ASSURANCE PLAN REVISION 10, REQUIRES THAT DRAWINGS AND PROCEDURES WHICH AFFECT QUALITY TO BE APPROPRIATE TO THE CIRCUMSTANCES. CONTRARY TO THE ABOVE, NUMEROUS PLANT SPECIFICATIONS AND DRAWINGS WERE FOUND TO BE NEITHER APPROPRIATE NOR PROPERLY REVIEWED FOR ADEQUACY. EXAMPLES INCLUDED: A. SPECIFICATION MPS 275 HAD BEEN SUPERSEDED BY MPS 351. MPS 275 WAS NEITHER MARKED AS SUPERSEDED NOR HAD IT BEEN REMOVED FROM THE THE FILES. B. HPCI ELEMENTARY DIAGRAM 729E816 SHEET 6, REV. G DID NOT REFLECT THE ACTUAL CIRCUIT WIRING FOR VALVE MO-2071. C. CORE SPRAY SYSTEM ELEMENTARY DIAGRAM X-7833-2, REV. M WAS NOT UPDATED TO INCORPORATE MODIFICATION 852019. D. RHR SYSTEM ELEMENTARY DIAGRAM NX-7905-46-2, REV. F DID NOT PROPERLY INDICATE A RELAY CONTACT DEVELOPMENT FOR A CORE SPRAY INTERLOCK. E. CORE SPRAY SYSTEM PIPING AND INSTRUMENT DRAWING NH-36248, REV. Q WAS NOT UPDATED TO FULLY REFLECT MODIFICATION 852019. F. MAINTENANCE PROCEDURE MT-PP7.54, FOR CORE SPRAY PUMP BREAKER 152-505, WAS NOT CONSISTENT WITH LATEST SYSTEM DESIGN. 2. 10 CFR 50, APPENDIX B, CRITERION III, AS IMPLEMENTED BY THE LICENSEE'S OPERATION QUALITY ASSURANCE PLAN REVISION 10, REQUIRES THAT DESIGN CHANGES, INCLUDING FIELD CHANGES, SHALL BE SUBJECT TO DESIGN CONTROL MEASURES COMMENSURATE WITH THOSE APPLIED TO THE ORIGINAL DESIGN. 10 CFR 50.59 REQUIRES THAT A DETERMINATION BE MADE AS TO WHETHER A CHANGE TO THE FACILITY CONSTITUTES AN UNREVIEWED SAFETY QUESTION PRIOR TO IMPLEMENTING THE CHANGE. CONTRARY TO THE ABOVE, AT AN UNDETERMINED TIME THE HOLD DOWN MECHANISM FOR BOTH TORUS ACCESS HATCHES, WHICH ARE PRIMARY CONTAINMENT BOUNDARIES, WAS MODIFIED WITHOUT A 50.59 REVIEW OR THE APPROPRIATE DESIGN CONTROL MEASURES BEING IMPLEMENTED. 9. 10 CFR 50.55(A) REQUIRES THE IMPLEMENTATION OF AN INSERVICE TESTING PROGRAM PER THE REQUIREMENTS DELINEATED IN THE APPLICABLE EDITION OF SECTION XI OF THE AMERICAN SOCIETY OF ENGINEERS' BOILER AND PRESSURE VESSEL CODE, UNLESS SPECIFIC RELIEF IS GRANTED BY THE COMMISSION. THE VERSION OF THE CODE CURRENTLY APPLICABLE TO MONTICELLO IS THE 1977 EDITION THROUGH AND INCLUDING SUMMER 1978 ADDENDA. CONTRARY TO THE ABOVE, THE LICENSEE FAILED TO IMPLEMENT AN INSERVICE TESTING PROGRAM PER THE REQUIREMENTS AS INDICATED BELOW: A. IWP-330 IN SECTION XI REQUIRES THE YEARLY MONITORING OF BEARING FROM WHICH THE LICENSEE HAS REQUESTED RELIEF FOR THE CORE SPRAY PUMPS, STATING THAT THE MECHANICAL CONDITION OF THE PUMP WOULD BE ASSESSED BY USING VIBRATION DATA. CONTRARY TO THIS, THE VIBRATION DATA FOR THE PUMP THRUST BEARING, LOCATED IN THE MOTOR HOUSING, WAS EXCLUDED FROM EVALUATION IN THE TEST PROCEDURE. B. IWP-3110, 3210, AND 4500 IN SECTION XI PRESCRIBE PUMP VIBRATION TESTING REQUIREMENTS FROM WHICH THE LICENSEE REQUESTED RELIEF. THE LICENSEE HAD PROPOSED ALTERNATE TESTING, INCLUDING A TABLE OF ALLOWABLE VIBRATION LIMITS, USING VIBRATION VELOCITY AND COMPARING PERIODIC READINGS TO INITIAL TEST DATA USED AS REFERENCE VALUES. CONTRARY TO THIS, THE LICENSEE CHOSE HIGH, FIXED VIBRATION LIMITS FOR TEST EVALUATION THAT NO RELATION TO PREVIOUS PUMP PERFORMANCE. C. IWP-3100 IN SECTION XI REQUIRES FIXING EITHER PUMP FLOW OR HEAD AT ITS REFERENCE VALUE AND THEN COMPARING THE MEASURED VALUES OF THE "NON-FIXED" PARAMETERS TO THEIR REFERENCE VALUES ACCORDING TO TABLE IWP-3100-2. CONTRARY TO THIS, THE TEST PROCEDURE ALLOWED BOTH FLOW AND HEAD TO VARY AROUND THEIR REFERENCE VALUES, WHICH FAILS TO LIMIT TEST CRITERIA WITHIN BOUNDS INTENDED BY THE CODE. D. IWP-3412 IN SECTION XI REQUIRES STROKING VALVES THAT PROVIDE AN ACTIVE SAFETY FUNCTION. CONTRARY TO THIS, VALVES CST-104-1 AND CST-96 WERE NOT INCLUDED IN THE VALVE TEST PROGRAM TO VERIFY THEIR SAFETY-RELATED CLOSURE CAPABILITY. E. CODE INTERPRETATION XI-1-79-18 IS AN ASME PUBLISHED INTERPRETATION OF THE INTENT OF IWP-3300 REQUIRING THE VERIFICATION OF REMOTE VALVE POSITION INDICATIONS AGAINST ACTUAL VALVE OPERATION. CONTRARY TO THIS, THE LICENSEE HAS NOT INCLUDED THE POSITION INDICATION VERIFICATION OF ACCESSIBLE VALVES IN THEIR PROGRAM. 7. 10 CFR 50, APPENDIX B, CRITERION XI REQUIRES THAT A TEST PROGRAM BE ESTABLISHED TO ASSURE THAT ALL TESTING REQUIRED TO DEMONSTRATE THE SYSTEMS AND COMPONENTS WILL PERFORM SATISFACTORILY IS PERFORMED. CONTRARY TO THE ABOVE, THE LICENSEE HAS NOT ESTABLISHED A POST MAINTENANCE TEST PROGRAM WHICH WILL ASSURE THAT THE SYSTEM OR COMPONENT WILL PERFORM SATISFACTORILY AS EVIDENCED BY THE LACK OF POST

MAINTENANCE REVIEW PRIOR TO SPECIFYING TESTING REQUIREMENTS.

6. 10 CFR 50, APPENDIX B, CRITERION V, AS IMPLEMENTED BY THE LICENSEE'S OPERATIONAL QUALITY ASSURANCE PLAN REVISION 10, REQUIRES THAT PROCEDURE AFFECTING QUALITY INCLUDE APPROPRIATE ACCEPTANCE CRITERIA. TECHNICAL SPECIFICATION SECTION 6.5.C REQUIRES PROCEDURES FOR CALIBRATION OF INSTRUMENTATION THAT COULD AFFECT THE NUCLEAR SAFETY OF THE PLANT. ADMINISTRATIVE CONTROL DOCUMENT 4 ACD-6.4, "CALIBRATION AND CONTROL OF INSPECTION, MEASURING AND TEST EQUIPMENT" REQUIRES THAT A CALIBRATION RECORD INCLUDE BOTH CALIBRATION ACCURACY AND "AS-FOUND/AS-LEFT" DATA. CONTRARY TO THE ABOVE, "AS-FOUND" DATA WAS NOT RECORDED OF THREE IRD MODEL 306 VIBRATION METERS AND, NEITHER "AS-FOUND" NOR "AS-LEFT" ACCURACY ACCEPTANCE CRITERIA WAS SPECIFIED FOR FOUR MEASURING AND TEST EQUIPMENT PRESSURE GAUGES MAINTAINED BY OPERATIONS ENGINEERING.
(8702 4)

8. TECHNICAL SPECIFICATION 6.2.B.4.H REQUIRED THE OPERATIONS COMMITTEE TO REVIEW, "ALL PROCEDURES REQUIRED BY THESE TECHNICAL SPECIFICATIONS." TECHNICAL SPECIFICATION 6.5 REQUIRED, "DETAILED WRITTEN PROCEDURES, INCLUDING THE APPLICABLE CHECKOFF LISTS AND INSTRUCTIONS, COVERING . . . SURVEILLANCES, AND TESTING REQUIREMENTS THAT COULD HAVE AN AFFECT ON NUCLEAR SAFETY. 10 CFR 50, APPENDIX B, CRITERION 5 REQUIRES, AS IMPLEMENTED BY THE LICENSEE'S OPERATIONAL QUALITY ASSURANCE PLAN REVISION 10, ACTIVITIES AFFECTING QUALITY SHALL BE PRESCRIBED BY DOCUMENTED INSTRUCTIONS, PROCEDURES, . . . OF A TYPE APPROPRIATE TO THE CIRCUMSTANCES . . . " CONTRARY TO THE ABOVE, THE FOLLOWING SURVEILLANCE PROCEDURES AND CHECKOFF LISTS WERE NOT REVIEWED ADEQUATELY BY THE OPERATIONS COMMITTEE TO ASSURE THEY WERE APPROPRIATE TO THE CIRCUMSTANCES FOR WHICH THEY WERE ISSUED: A. ALARM PROCEDURE 3-A-22, PAGE B.3.1-0017.80, OF THE CORE SPRAY OPERATIONS MANUAL STATED AS RESPONSE TO THE "CORE SPRAY PUMP 11 LOCKOUT" TO CLOSE "MO 1751 AND MO 1752" IN LIEU OF "CLOSE MO 1751 AND 1753." B. ALARM PROCEDURE 3-B-15, PAGE B.3.1-0018.00, OF THE CORE SPRAY OPERATIONS MANUAL STATES AS RESPONSE TO THE "CORE SPRAY PUMP 12 LOCKOUT" TO CLOSE "MO 1752 AND MO 1752" IN LIEU OF "CLOSE MO 1752 AND 1754." C. STEPS 3 AND 20 OF TEST PROCEDURE NO. 0255-03-III REQUIRED AN INDICATING SYSTEM PRESSURE OF NEGATIVE 10 PSI OF NEGATIVE 30 PSI PRIOR TO STARTING A CORE SPRAY PUMP TO PREVENT WATER HAMMER. D. THE "REACTOR BUILDING DAILY CHECKSHEET," FORM NO. 2009, REVISION 14 GAVE A MINIMUM VALUE OF 10 PSIG FOR THE PRESSURE IN THE KEEP FILL SYSTEM ON THE CORE SPRAY PUMPS. THIS WAS TOO LOW TO PREVENT WATER HAMMER WHILE OPERATING THE SYSTEM. E. THE "REACTOR BUILDING DAILY CHECKSHEET" DID NOT PROVIDE FOR A PERIODIC CHECK OF THE OIL IN THE CORE SPRAY PUMP MOTORS DURING DAILY ROUND CHECKS.

(8702 5)

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING ROUTINELY

LAST IE SITE INSPECTION DATE: 02/23/88

INSPECTION STATUS - (CONTINUED)

OTHER ITEMS

INSPECTION REPORT NO: 88003

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-18	111187	121187	ENGINEERED SAFETY FEATURE ACTUATIONS DUE TO INADVERTENT TRIP OF SPENT FUEL POOL MONITOR
87-19	111187	121187	ENGINEERED SAFETY FEATURE ACTUATIONS DUE TO MISPLACED JUMPER DURING SURVEILLANCE TEST
87-20	112087	122187	CHECK VALVE DISC NUT TACK WELD FAILURE RESULTS IN POTENTIAL HPCI DEGRADATION
87-22	111287	121487	LATCHES ON TWO FIRE DOORS MADE INOPERABLE DUE TO INADEQUACIES IN A PROCEDURE AND TRAINING
87-23	112587	120287	CRACK IN REACTOR RECIRCULATION SYSTEM DECONTAMINATION CONNECTION DUE TO HIGH CYCLE FATIGUE

1. Docket: 50-220 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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):

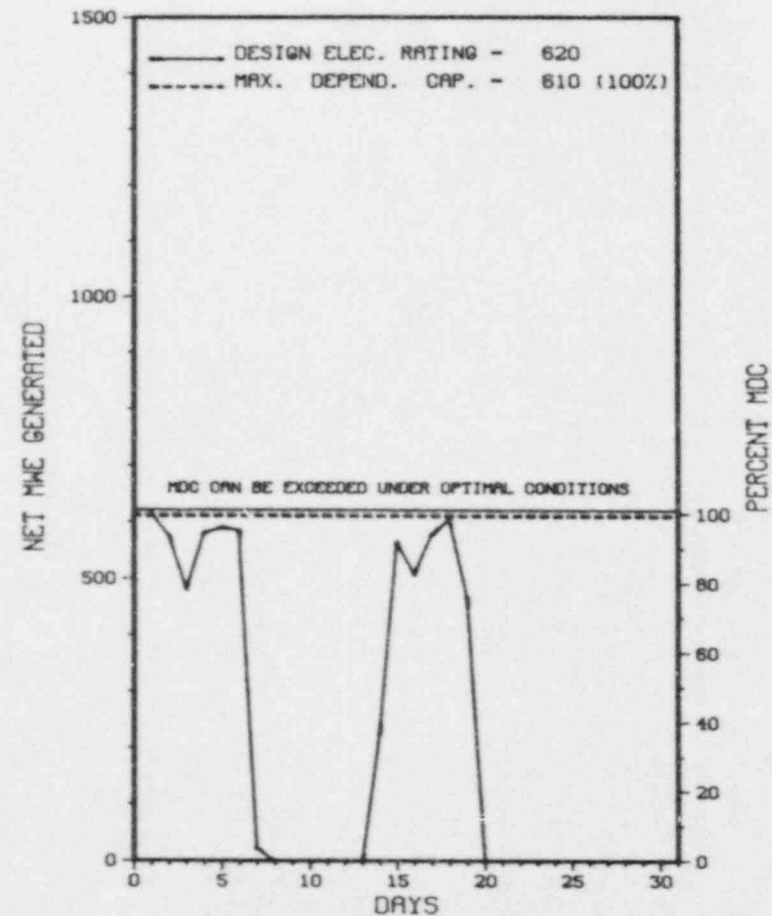
11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>159,240.0</u>
13. Hours Reactor Critical	<u>307.1</u>	<u>8,171.2</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>276.1</u>	<u>8,130.5</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>468,900</u>	<u>14,222,089</u>	<u>188,473,049</u>
18. Gross Elec Ener (MWH)	<u>158,098</u>	<u>4,753,317</u>	<u>62,473,071</u>
19. Net Elec Ener (MWH)	<u>153,370</u>	<u>4,615,169</u>	<u>60,524,379</u>
20. Unit Service Factor	<u>37.1</u>	<u>92.8</u>	<u>70.4</u>
21. Unit Avail Factor	<u>37.1</u>	<u>92.8</u>	<u>70.4</u>
22. Unit Cap Factor (MDC Net)	<u>33.8</u>	<u>86.4</u>	<u>62.3</u>
23. Unit Cap Factor (DER Net)	<u>33.2</u>	<u>85.0</u>	<u>61.3</u>
24. Unit Forced Outage Rate	<u>62.9</u>	<u>7.2</u>	<u>14.6</u>
25. Forced Outage Hours	<u>467.9</u>	<u>629.5</u>	<u>14,531.9</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>REFUEL - MARCH 5, 1988 - DURATION 12 WEEKS.</u>		
27. If Currently Shutdown Estimated Startup Date:	<u>01/11/88</u>		

 * NINE MILE POINT 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NINE MILE POINT 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* NINE MILE POINT 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
	12/02/87	F	0.0	A	5				REDUCED LOAD TO 64% POWER TO RECOVER FROM FAILED SCRAM INLET VALE DIAPHRAM 10-15, WHICH WAS REPLACED.
	12/07/87	F	174.1	A	3				RX SCRAMMED ON LOW WATER LEVEL DUE TO FAILURE OF #13 FW CONTROL (SOUTHSIDE)
	12/19/87	F	293.8	A	2				RX WAS MANUALLY SCRAMMED DUE TO HIGH VIBRATION IN THE FW SYSTEM, CAUSED BY BROKEN STEM ON #13 FW FLOW CONTROL VALVE. (SOUTHSIDE)

* SUMMARY *

NINE MILE POINT 1 INCURRED 2 OUTAGES AND 1 LOAD REDUCTION IN DECEMBER 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)

* NINE MILE POINT 1 *

F A C I L I T Y D A T A

Report Period DEC 1987

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

TS 6.11 REQUIRES THAT PROCEDURES FOR RADIATION PROTECTION BE PREPARED AND ADHERED TO FOR ALL OPERATIONS INVOLVING PERSONNEL RADIATION EXPOSURE. RADIATION PROTECTION PROCEDURE S-RTP-10 REQUIRES, IN PART, IN SECTION 5.4.3 THAT A TECHNICIAN OR SUPERVISOR COMPLETE THE WHOLE BODY COUNT WORKSHEET AND CALCULATE THE QUANTITY OF INTAKE WHEN AN INDIVIDUAL'S WHOLE BODY COUNT RESULT EXCEEDS THE ACTION POINTS PRESENTED IN TABLE 12 OF THE PROCEDURE. IN ADDITION, A PROGRAM OF REPETITIVE BIOASSAY IS TO BE PERFORMED WITH A SPECIFIED MINIMUM FREQUENCY. CONTRARY TO THE ABOVE, AN INDIVIDUAL'S WHOLE BODY COUNT EXCEEDED THE TABLE 12 ACTION POINTS ON MARCH 17, 1986 AND MARCH 19, 1987 AND THE INDIVIDUAL'S INTAKE WAS NOT CALCULATED NOR WERE REPEATIVE BIOASSAYS PERFORMED WITH A SPECIFIED MINIMUM FREQUENCY.

(8701 5)

OTHER ITEMS

Report Period DEC 1987

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

* NINE MILE POINT 1 *

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

NO INPUT PROVIDED.			
=====			

1. Docket: 50-410 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 810

11. Reasons for Restrictions, If Any:

RESTRICTED FOR ADMINISTRATIVE REASONS

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>3,496.0</u>	<u>3,496.0</u>
13. Hours Reactor Critical	<u>148.9</u>	<u>1,638.9</u>	<u>1,638.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>84.9</u>	<u>1,059.0</u>	<u>1,059.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>111,130</u>	<u>1,533,565</u>	<u>1,533,565</u>
18. Gross Elec Ener (MWH)	<u>26,900</u>	<u>374,900</u>	<u>374,900</u>
19. Net Elec Ener (MWH)	<u>5,740</u>	<u>260,995</u>	<u>260,995</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>659.1</u>	<u>1,850.5</u>	<u>1,850.5</u>

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

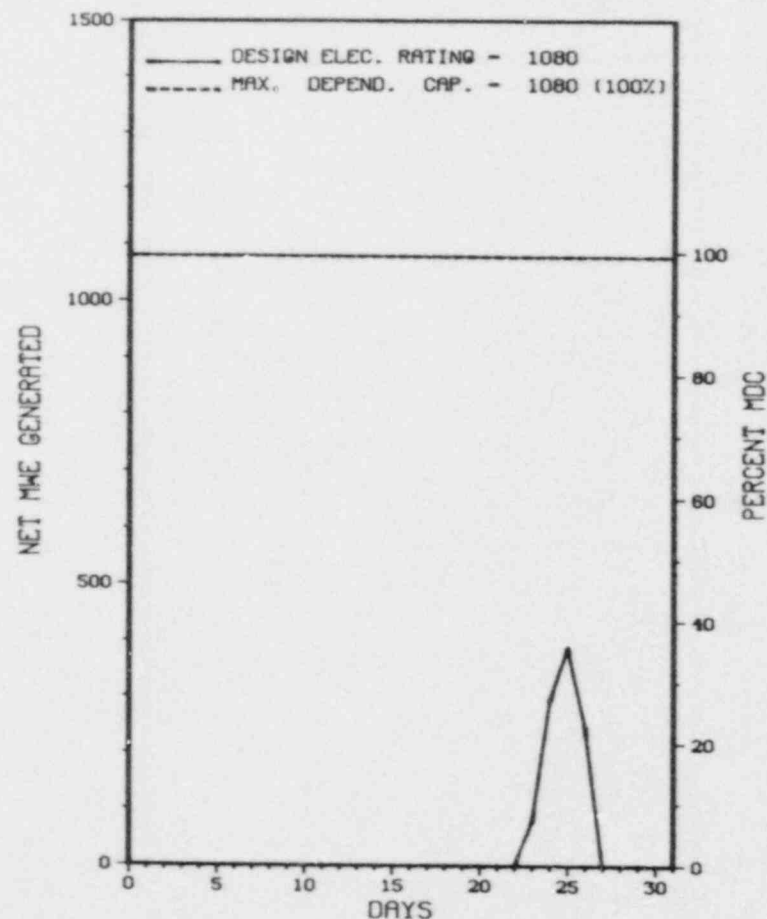
NONE

27. If Currently Shutdown Estimated Start-up Date: N/A

* NINE MILE POINT 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NINE MILE POINT 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * NINE MILE POINT 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
10	11/21/87	F	534.5	B	4				CONTINUATION OF MAINTENANCE OUTAGE DUE TO PROBLEMS WITH FEEDWATER SYSTEM AND RECIRC PUMP FLOW CONTROLLERS.
11	12/26/87	F	124.6	A	3				LOSS OF CONDENSER VACUUM CAUSED TURBINE AND REACTOR TRIPS. CORRECTIVE MAINTENANCE.

 * SUMMARY *

 NINE MILE POINT 2 COMPLETED MAINTENANCE OUTAGE AND RETURNED TO POWER, SUBSEQUENTLY INCURRED 1 OUTAGE BECAUSE OF LOSS OF CONDENSER VACUUM.

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 2 *

F A C I L I T Y D A T A

Report Period DEC 1987

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
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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 DEC 1987

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 REPORT	SUBJECT
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INFO. NOT SUPPLIED BY REGION

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1. Docket: 50-338 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

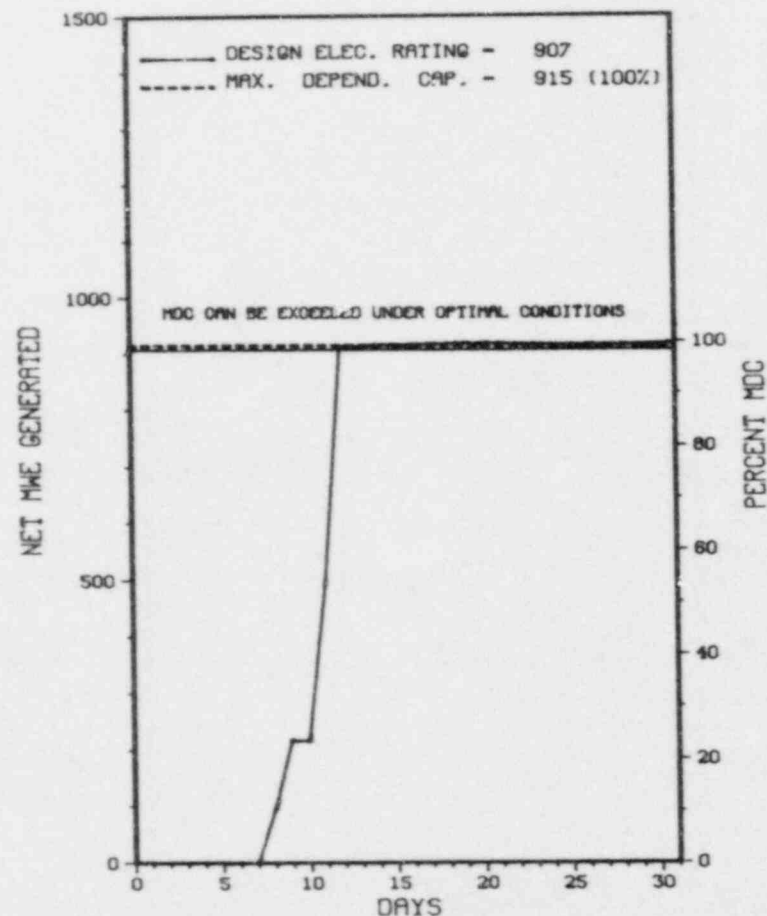
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>83,905.0</u>
13. Hours Reactor Critical	<u>567.1</u>	<u>4,585.4</u>	<u>57,471.2</u>
14. Rx Reserve Shtdwn Hrs	<u>22.5</u>	<u>441.4</u>	<u>5,648.0</u>
15. Hrs Generator On-Line	<u>563.5</u>	<u>4,525.5</u>	<u>55,768.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,479,767</u>	<u>11,386,891</u>	<u>146,176,774</u>
18. Gross Elec Ener (MWH)	<u>490,485</u>	<u>3,775,672</u>	<u>47,903,888</u>
19. Net Elec Ener (MWH)	<u>464,247</u>	<u>3,568,907</u>	<u>45,294,594</u>
20. Unit Service Factor	<u>75.7</u>	<u>51.7</u>	<u>66.5</u>
21. Unit Avail Factor	<u>75.7</u>	<u>51.7</u>	<u>66.5</u>
22. Unit Cap Factor (MDC Net)	<u>68.2</u>	<u>44.6</u>	<u>59.0</u>
23. Unit Cap Factor (DER Net)	<u>68.8</u>	<u>44.9</u>	<u>59.5</u>
24. Unit Forced Outage Rate	<u>24.3</u>	<u>34.9</u>	<u>15.1</u>
25. Forced Outage Hours	<u>180.5</u>	<u>2,429.3</u>	<u>9,821.5</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



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* NORTH ANNA 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-07	11/28/87	F	180.5	A	4				CONTINUATION FROM NOVEMBER 1987, WHEN THE UNIT WAS TAKEN OFF LINE TO REPAIR 'B' REACTOR COOLANT PUMP #1 SEAL. REPAIRS WERE COMPLETED AND UNIT RETURNED ON LINE DECEMBER 08, 1987 AT 1228.

* SUMMARY *

NORTH ANNA 1 COMPLETED REPAIRS TO PUMP SEAL AND RETURNED TO POWER IN DECEMBER.

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)

* NORTH ANNA 1 *

F A C I L I T Y D A T A

Report Period DEC 1987

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 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:

+ RESIN IN SECONDARY PLANT.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* NORTH ANNA 1 *

OTHER ITEMS

NONE.

PLANT STATUS:

+ COLD SHUTDOWN FOR RESIN CLEANUP.

LAST IE SITE INSPECTION DATE: SEPTEMBER 18 - OCTOBER 19, 1987 +

INSPECTION REPORT NO: 50-358/87-34 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-020	11/23/87	12/15/87	REACTOR TRIP GENERATED FROM 5A FEEDWATER HEATER HI-HI LEVEL SIGNAL
87-024	12/04/87	12/18/87	VENT STACK "B" HIGH RANGE RADIATION MONITOR EXCEEDED T.S. ACTION STATEMENT

1. Docket: 50-339 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: B. GARNER (703) 854-5151 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>744.0</u>	<u>8,760.0</u>	<u>61,776.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,842.2</u>	<u>48,460.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>13.2</u>	<u>4,044.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,785.5</u>	<u>47,428.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,152,259</u>	<u>18,006,585</u>	<u>124,322,754</u>
18. Gross Elec Ener (MWH)	<u>715,304</u>	<u>5,971,104</u>	<u>41,227,181</u>
19. Net Elec Ener (MWH)	<u>680,468</u>	<u>5,653,448</u>	<u>39,058,358</u>
20. Unit Service Factor	<u>100.0</u>	<u>77.5</u>	<u>76.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>77.5</u>	<u>76.8</u>
22. Unit Cap Factor (MDC Net)	<u>100.0</u>	<u>71.2</u>	<u>69.1</u>
23. Unit Cap Factor (DER Net)	<u>100.8</u>	<u>71.2</u>	<u>69.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>9.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>6,768.9</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):			

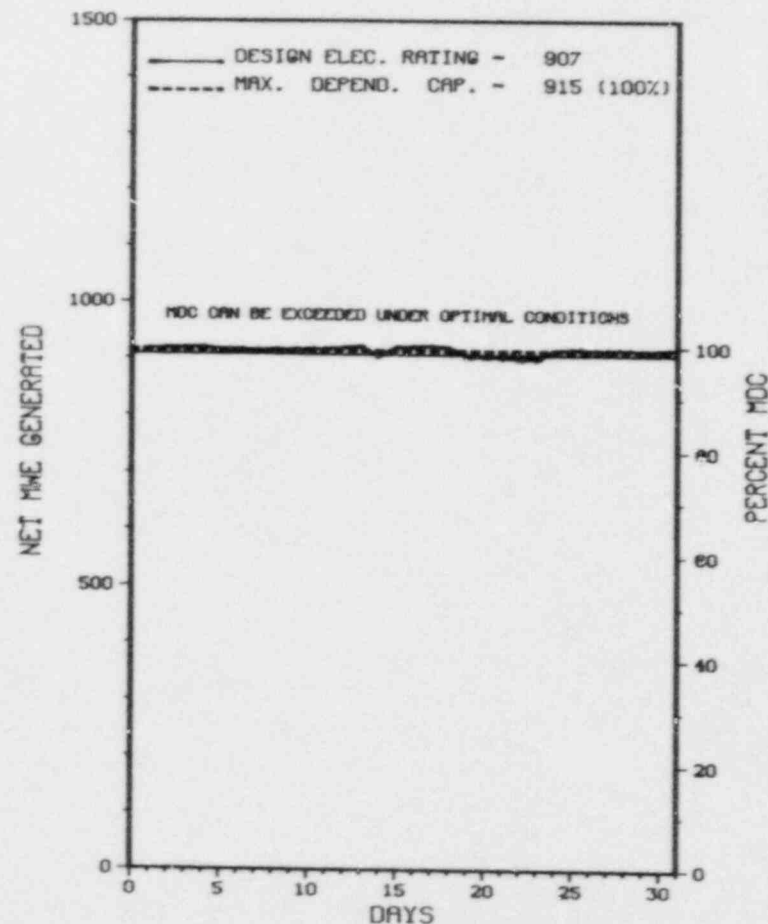
NONE

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

 * NORTH ANNA 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NORTH ANNA 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * NORTH ANNA 2 *

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

 * SUMMARY *

 NORTH ANNA 2 OPERATED ROUTINELY IN DECEMBER WITH NO OUTAGES OR SIGNIFICANT POWER REDUCTIONS.

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)

* NORTH ANNA 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

OTHER ITEMS

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: SEPTEMBER 18 - OCTOBER 19, 1987 +

INSPECTION REPORT NO: 50-339/87-34 +

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
87-015	11/04/87	12/04/87	INOPERABLE REDUNDANT S/G STEAM FLOW CHANNEL EXCEEDS TECHNICAL SPECIFICATION ACTION STATEMENT
87-016	10/31/87	11/18/87	INADVERTENT RPS ACTUATION DURING TESTING; PROCEDURE INADEQUACY
87-017	11/03/87	12/02/87	NUCLEAR INSTRUMENT CHANNEL NOT PLACED IN TRIP WITHIN 1 HOUR; PROCEDURAL INADEQUACY

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1. Docket: 50-269 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. A. REAVES (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): 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

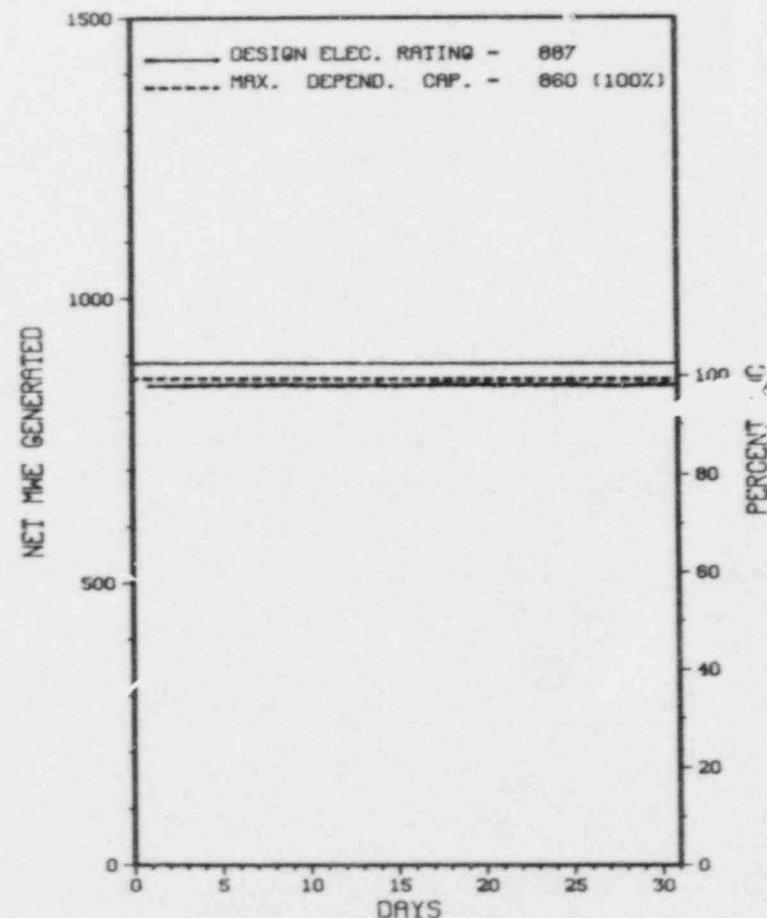
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>126,762.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,913.9</u>	<u>93,309.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,650.7</u>	<u>89,697.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,908,744</u>	<u>15,558,960</u>	<u>216,485,065</u>
18. Gross Elec Ener (MWH)	<u>660,342</u>	<u>5,313,787</u>	<u>75,107,657</u>
19. Net Elec Ener (MWH)	<u>631,314</u>	<u>5,028,061</u>	<u>71,211,105</u>
20. Unit Service Factor	<u>100.0</u>	<u>76.4</u>	<u>70.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>76.4</u>	<u>70.8</u>
22. Unit Cap Factor (RJC Net)	<u>98.7</u>	<u>66.7</u>	<u>65.2*</u>
23. Unit Cap Factor (DER Net)	<u>95.7</u>	<u>64.7</u>	<u>63.4*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.5</u>	<u>13.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>31.4</u>	<u>13,514.7</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

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

* OCONEE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 1



DECEMBER 1987

* Item calculated with a Weighted Average

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Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* OCONEE 1 *

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

* SUMMARY *

OCONEE 1 OPERATED ROUTINELY IN DECEMBER 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)

 * OCONEE 1 *

F A C I L I T Y D A T A

Report Period DEC 1987

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.....SOUTHERN 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 OCTOBER 20 - NOVEMBER 20 (87-44): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, ENGINEERED SAFETY FEATURES LINEUPS, FOLLOWUP OF EVENTS, UNIT 1 SHUTDOWN WORK IN PROGRESS, AND PARTICIPATION IN AND OBSERVATION OF THE ANNUAL DRILL. OF THE SEVEN AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. FAILURE TO DOCUMENT ACTIONS.

INSPECTION NOVEMBER 6 (87-45): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED A REVIEW OF THE CIRCUMSTANCES SURROUNDING THE ACCESSING OF THE PROTECTED AREA BY A LICENSEE EMPLOYEE WITHOUT BEING ISSUED A PICTURE BADGE. AN APPARENT VIOLATION OF REGULATORY REQUIREMENTS WAS IDENTIFIED: FAILURE TO BADGE AN INDIVIDUAL PRIOR TO THEIR ENTRY TO THE PROTECTED AREA.

INSPECTION NOVEMBER 16-20 (87-46): THIS UNANNOUNCED, ROUTINE, PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: SECURITY PLAN IMPLEMENTING PROCEDURE, MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM, SECURITY ORGANIZATION, RECORDS AND REPORTS, PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS, ASSESSMENT AIDS, ACCESS CONTROL - PERSONNEL, ALARM STATIONS, AND COMMUNICATIONS. VIOLATION WAS IDENTIFIED IN THE AREA OF GUARD QUALIFICATION.

INSPECTION NOVEMBER 30 - DECEMBER 4 (87-47): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF LICENSEE ACTION PREVIOUS OPEN ITEMS, UNIT 1 INSERVICE INSPECTION (ISI) REVIEW OF REJECTED RADIOGRAPH AND CORRECTIVE ACTION; LICENSEE ACTION ON TEMPORARY INSTRUCTION (TI) 2500/26, IE BULLETIN 87-02; INSERVICE INSPECTION TESTING (IST) PUMPS, VALVE REPAIRS, AND TESTING. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period DEC 1987

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

* OCONEE 1 *

INSPECTION SUMMARY

INSPECTION NOVEMBER 20 - DECEMBER 7 (87-49): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTOR INSPECTION IN THE AREA OF CONTAINMENT INTEGRITY DURING REFUELING OPERATIONS. IN THE AREA INSPECTED, ONE VIOLATION WAS IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: NOVEMBER 20 - DECEMBER 7, 1987 +

INSPECTION REPORT NO: 50-269/87-49 +

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

87-008	10/12/87	11/25/87	DIRECT PATHWAY FROM CONTAINMENT TO ENVIR DURING FUEL MOVEMENT RESULTS IN VIOLATION OF TS DUE TO MGT DEFICIENCY AND DESIGN DEF
87-009	10/28/87	12/15/87	TWO FUNTIONAL UNITS OF EMERGENCY POWER SWITCHING LOGIC TAKE OUT OF SERVICE DUE TO A MANAGEMENT DEFICIENCY
87-011	12/2/87	01/04/88	CABLE ROOM SPRINKLER SYSTEMS INOPERABLE DUE TO DESIGN DEFICIENCY OF PRESSURE AND FLOW RATES
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1. Docket: 50-270 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 860

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>744.0</u>	<u>8,760.0</u>	<u>116,689.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>8,604.9</u>	<u>88,696.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>8,567.1</u>	<u>87,293.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,617,216</u>	<u>19,351,824</u>	<u>207,640,101</u>
18. Gross Elec Ener (MWH)	<u>540,930</u>	<u>6,549,160</u>	<u>70,682,681</u>
19. Net Elec Ener (MWH)	<u>513,702</u>	<u>6,228,692</u>	<u>67,197,318</u>
20. Unit Service Factor	<u>100.0</u>	<u>97.8</u>	<u>74.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>97.8</u>	<u>74.8</u>
22. Unit Cap Factor (MDC Net)	<u>80.3</u>	<u>82.7</u>	<u>66.3*</u>
23. Unit Cap Factor (DER Net)	<u>77.8</u>	<u>80.2</u>	<u>65.0*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.2</u>	<u>11.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>192.9</u>	<u>10,963.0</u>

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

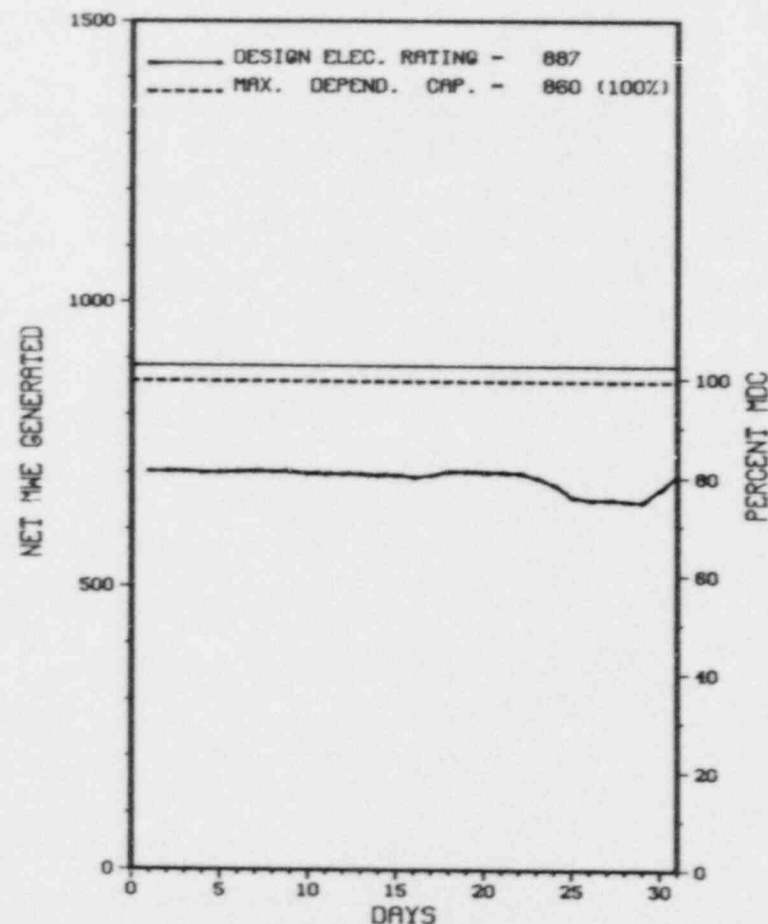
REFUELING - FEBRUARY 3, 1988 - 10 WEEK DURATION

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

* OCONEE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 2



DECEMBER 1987

* Item calculated with a Weighted Average

PAGE 2-270

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* OCONEE 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
35-P	12/01/87	F	0.0	A	5		CH	HTEXCH	HIGH LEVEL IN 'B' STEAM GENERATOR
36-P	12/23/87	F	0.0	A	5		HJ	HTEXCH	HIGH LEVEL IN FEEDWATER HEATER
37-P	12/23/87	F	0.0	A	5		HJ	HTEXCH	HIGH LEVEL IN FEEDWATER HEATER
38-P	12/25/87	F	0.0	A	5		HJ	HTEXCH	HIGH LEVEL IN FEEDWATER HEATER AND FEEDWATER SWING
39-P	12/31/87	F	0.0	A	5		CH	HTEXCH	HIGH LEEL IN 'B' STEAM GENERATOR

* SUMMARY *

OCONEE 2 OPERATED AT A SELF IMPOSED RESTRICTED POWER LEVEL DURING DECEMBER.

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)

* OCONEE 2 *

FACILITY DATA

Report Period DEC 1987

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 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.....50-270
LICENSE & DATE ISSUANCE...DPR-47, OCTOBER 6, 1973
PUBLIC DOCUMENT ROOM.....OCONEE COUNTY LIBRARY
501 W. SOUTH BROAD ST.
WALHALLA, SOUTH CAROLINA 29691

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 20 - NOVEMBER 20 (87-44): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, ENGINEERED SAFETY FEATURES LINEUPS, FOLLOWUP OF EVENTS, UNIT 1 SHUTDOWN WORK IN PROGRESS, AND PARTICIPATION IN AND OBSERVATION OF THE ANNUAL DRILL. OF THE SEVEN AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. FAILURE TO DOCUMENT ACTIONS.

INSPECTION NOVEMBER 6 (87-45): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED A REVIEW OF THE CIRCUMSTANCES SURROUNDING THE ACCESSING OF THE PROTECTED AREA BY A LICENSEE EMPLOYEE WITHOUT BEING ISSUED A PICTURE BADGE. AN APPARENT VIOLATION OF REGULATORY REQUIREMENTS WAS IDENTIFIED: FAILURE TO BADGE AN INDIVIDUAL PRIOR TO THEIR ENTRY TO THE PROTECTED AREA.

INSPECTION NOVEMBER 16-20 (87-46): THIS UNANNOUNCED, ROUTINE, PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: SECURITY PLAN IMPLEMENTING PROCEDURE, MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM, SECURITY ORGANIZATION, RECORDS AND REPORTS, PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS, ASSESSMENT AIDS, ACCESS CONTROL - PERSONNEL, ALARM STATIONS, AND COMMUNICATIONS. VIOLATION WAS IDENTIFIED IN THE AREA OF GUARD QUALIFICATION.

INSPECTION NOVEMBER 30 - DECEMBER 4 (87-47): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF LICENSEE ACTION PREVIOUS OPEN ITEMS, UNIT 1 INSERVICE INSPECTION (ISI) REVIEW OF REJECTED RADIOGRAPH AND CORRECTIVE ACTION; LICENSEE ACTION ON TEMPORARY INSTRUCTION (TI) 2500/26, IE BULLETIN 87-02; INSERVICE INSPECTION TESTING (IST) PUMPS, VALVE REPAIRS, AND TESTING. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                OCONEE 2                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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INSPECTION NOVEMBER 20 - DECEMBER 7 (87-49): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTOR INSPECTION IN THE AREA OF CONTAINMENT INTEGRITY DURING REFUELING OPERATIONS. IN THE AREA INSPECTED, ONE VIOLATION WAS IDENTIFIED.

NONE

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: NOVEMBER 20 - DECEMBER 7, 1987 +

INSPECTION REPORT NO: 50-270/87-49 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE.			

1. Docket: 50-287 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. A. REAVIS (764) 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): 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>744.0</u>	<u>8,760.0</u>	<u>114,336.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,142.2</u>	<u>83,349.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,069.9</u>	<u>81,985.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,909,968</u>	<u>15,452,352</u>	<u>200,899,461</u>
18. Gross Elec Ener (MWH)	<u>659,668</u>	<u>5,329,471</u>	<u>69,210,545</u>
19. Net Elec Ener (MWH)	<u>632,254</u>	<u>5,084,967</u>	<u>65,928,630</u>
20. Unit Service Factor	<u>100.0</u>	<u>69.3</u>	<u>71.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>69.3</u>	<u>71.7</u>
22. Unit Cap Factor (MDC Net)	<u>98.8</u>	<u>67.5</u>	<u>66.9*</u>
23. Unit Cap Factor (DER Net)	<u>95.8</u>	<u>65.4</u>	<u>65.1*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.6</u>	<u>13.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>225.0</u>	<u>12,625.3</u>

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

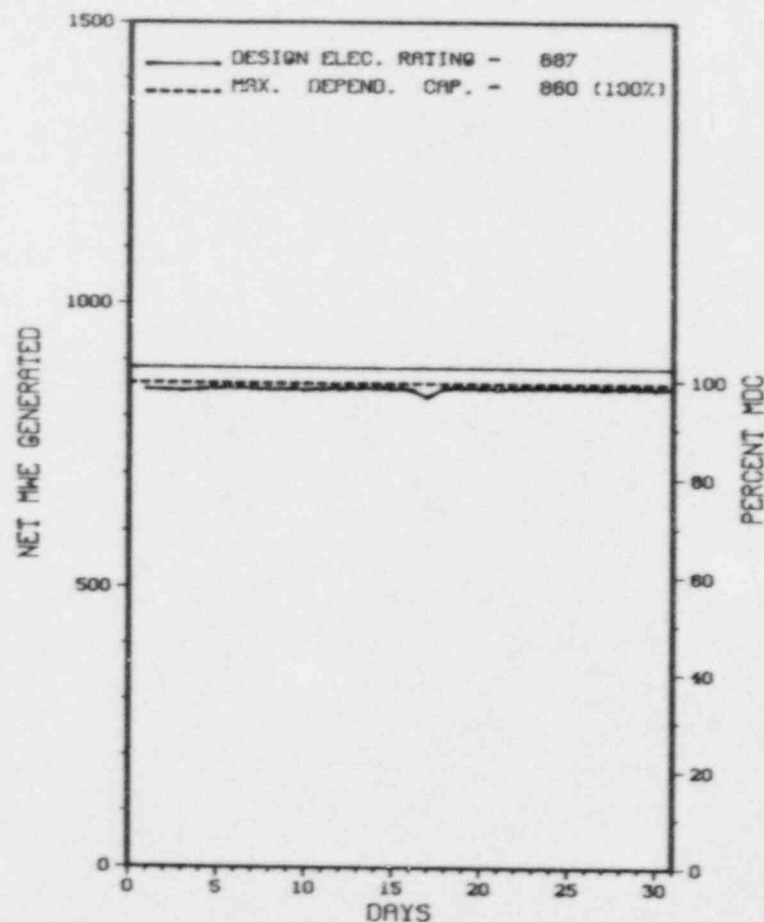
NONE

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

* OCONEE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 3



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * OCONEE 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
13-P	12/17/87	F	0.0	A	5		HH	VALVEX	FEEDWATER SWING CAUSED BY STICKING FEEDWATER CONTROL VALVE

 * SUMMARY *

 OCONEE 3 INCURRED 1 POWER REDUCTION IN DECEMBER DUE TO STICKING FEEDWATER CONTROL VALVE.

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)

 * OCONEE 3 *

FACILITY DATA

Report Period DEC 1987

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...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 OCTOBER 20 - NOVEMBER 20 (87-44): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, ENGINEERED SAFETY FEATURES LINEUPS, FOLLOWUP OF EVENTS, UNIT 1 SHUTDOWN WORK IN PROGRESS, AND PARTICIPATION IN AND OBSERVATION OF THE ANNUAL DRILL. OF THE SEVEN AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. FAILURE TO DOCUMENT ACTIONS.

INSPECTION NOVEMBER 6 (87-45): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED A REVIEW OF THE CIRCUMSTANCES SURROUNDING THE ACCESSING OF THE PROTECTED AREA BY A LICENSEE EMPLOYEE WITHOUT BEING ISSUED A PICTURE BADGE. AN APPARENT VIOLATION OF REGULATORY REQUIREMENTS WAS IDENTIFIED: FAILURE TO BADGE AN INDIVIDUAL PRIOR TO THEIR ENTRY TO THE PROTECTED AREA.

INSPECTION NOVEMBER 16-20 (87-46): THIS UNANNOUNCED, ROUTINE, PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: SECURITY PLAN IMPLEMENTING PROCEDURE, MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM, SECURITY ORGANIZATION, RECORDS AND REPORTS, PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS, ASSESSMENT AIDS, ACCESS CONTROL - PERSONNEL, ALARM STATIONS, AND COMMUNICATIONS. VIOLATION WAS IDENTIFIED IN THE AREA OF GUARD QUALIFICATION.

INSPECTION NOVEMBER 30 - DECEMBER 4 (87-47): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF LICENSEE ACTION PREVIOUS OPEN ITEMS, UNIT 1 INSERVICE INSPECTION (ISI) REVIEW OF REJECTED RADIOGRAPH AND CORRECTIVE ACTION; LICENSEE ACTION ON TEMPORARY INSTRUCTION (TI) 2500/26, IE BULLETIN 87-02; INSERVICE INSPECTION TESTING (IST) PUMPS, VALVE REPAIRS, AND TESTING. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period DEC 1987

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

* OCONEE 3 *

INSPECTION SUMMARY

INSPECTION NOVEMBER 20 - DECEMBER 7 (87-49): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTOR INSPECTION IN THE AREA OF CONTAINMENT INTEGRITY DURING REFUELING OPERATIONS. IN THE AREA INSPECTED, ONE VIOLATION WAS IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: NOVEMBER 20 - DECEMBER 7, 1987 +

INSPECTION REPORT NO: 50-287/87-49 +

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: 50-219 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: JOHN H. SEDAR JR. (609) 971-4698

4. Licensed Thermal Power (Mwt): 1230

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>744.0</u>	<u>8,760.0</u>	<u>157,992.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>5,620.0</u>	<u>101,151.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,208.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,422.9</u>	<u>97,791.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,761.4</u>
17. Gross Therm Ener (MWH)	<u>1,431,000</u>	<u>9,691,404</u>	<u>162,764,408</u>
18. Gross Elec Ener (MWH)	<u>497,569</u>	<u>3,250,109</u>	<u>54,918,354</u>
19. Net Elec Ener (MWH)	<u>480,060</u>	<u>3,110,919</u>	<u>52,722,888</u>
20. Unit Service Factor	<u>100.0</u>	<u>61.9</u>	<u>61.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>61.9</u>	<u>63.0</u>
22. Unit Cap Factor (MDC Net)	<u>104.1</u>	<u>57.3</u>	<u>53.8*</u>
23. Unit Cap Factor (DER Net)	<u>99.3</u>	<u>54.6</u>	<u>51.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>38.1</u>	<u>14.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>3,337.1</u>	<u>14,446.5</u>

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

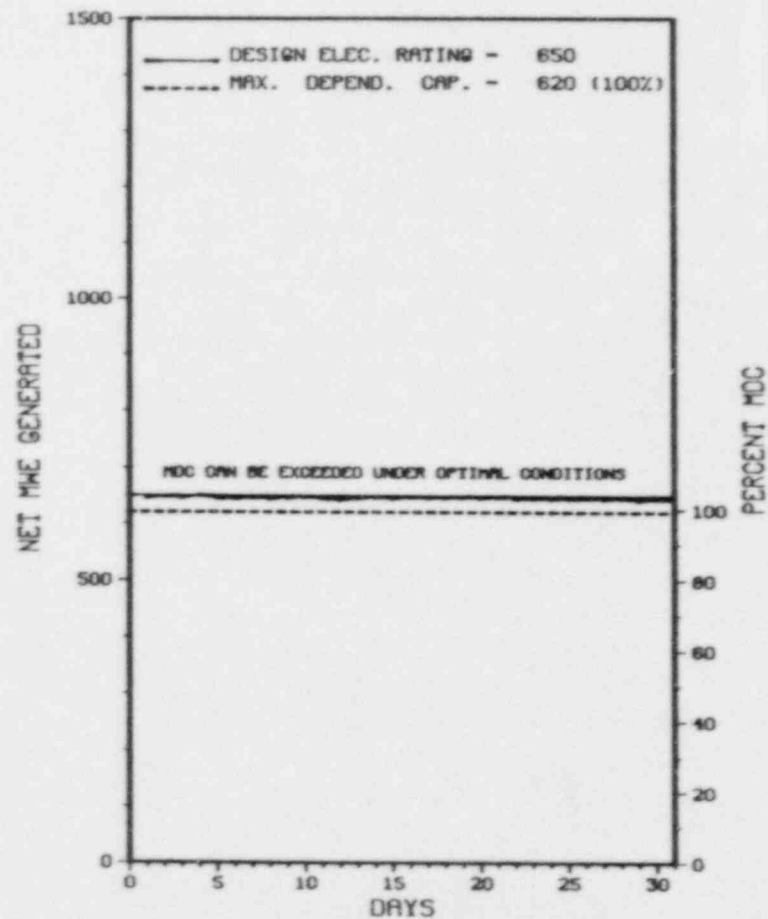
NONE

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

* OYSTER CREEK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OYSTER CREEK 1



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * OYSTER CREEK 1 *

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

 * SUMMARY *

OYSTER CREEK OPERATED ROUTINELY IN DECEMBER WITH NO POWER 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 *

F A C I L I T Y D A T A

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....NEW JERSEY

COUNTY.....OCEAN

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...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.....W. BATEMAN

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

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 DEC 1987

INSPECTION STATUS - (CONTINUED)

* OYSTER CREEK 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.

REPORTS FROM LICENSEE

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

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: 12/01/87 Outage + On-line Hrs: 744.0

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

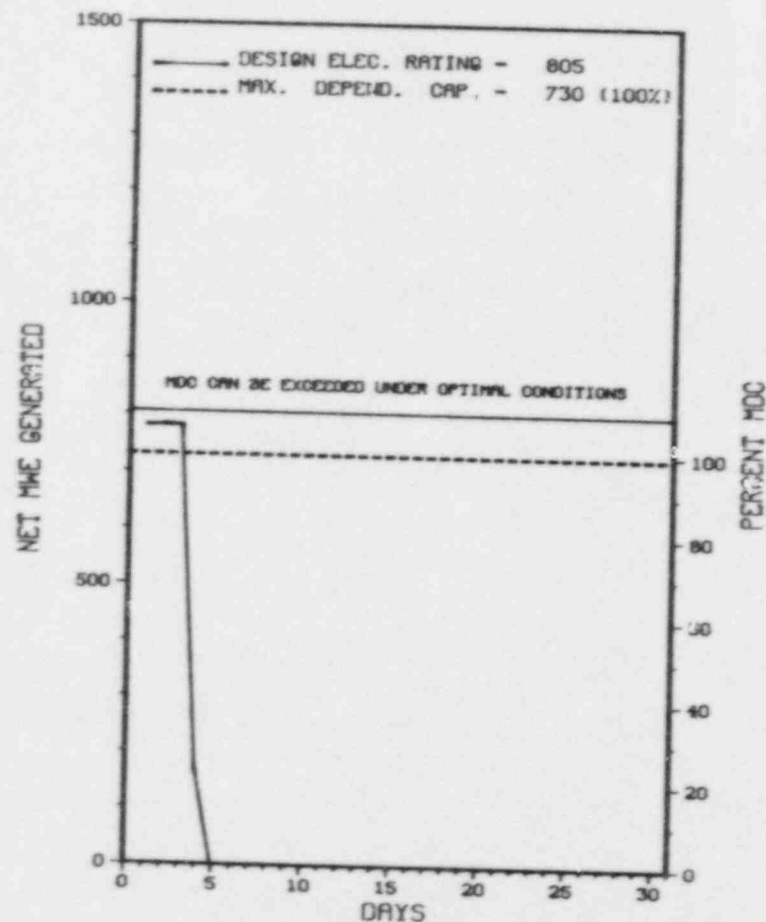
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>140,559.0</u>
13. Hours Reactor Critical	<u>84.0</u>	<u>4,226.6</u>	<u>74,017.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>83.9</u>	<u>3,983.1</u>	<u>70,266.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>197,136</u>	<u>8,825,277</u>	<u>147,187,917</u>
18. Gross Elec Ener (MWH)	<u>63,990</u>	<u>2,796,590</u>	<u>45,910,520</u>
19. Net Elec Ener (MWH)	<u>60,232</u>	<u>2,634,430</u>	<u>43,217,034</u>
20. Unit Service Factor	<u>11.3</u>	<u>45.5</u>	<u>50.0</u>
21. Unit Avail Factor	<u>11.3</u>	<u>45.5</u>	<u>50.0</u>
22. Unit Cap Factor (MDC Net)	<u>11.1</u>	<u>41.2</u>	<u>42.1</u>
23. Unit Cap Factor (DER Net)	<u>10.1</u>	<u>37.4</u>	<u>38.2</u>
24. Unit Forced Outage Rate	<u>88.7</u>	<u>48.5</u>	<u>35.9</u>
25. Forced Outage Hours	<u>660.1</u>	<u>3,745.3</u>	<u>25,259.5</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

27. If Currently Shutdown Estimated Startup Date: 01/31/88

* P A L I S A D E S *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALISADES



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PALISADES *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
15	12/04/87	F	660.1	A	1			TUBE LEAK IN "B" STEAM GENERATOR

 * SUMMARY *

PALISADES BEGAN MONTH OPERATING AT APPROXIMATELY 100%.
 SUBSEQUENTLY SHUTDOWN DUE TO LEAK IN "B" STEAM GENERATOR.

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)

* PALISADES *

FACILITY DATA

Report Period DEC 1987

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.....T. WAMBACH
DOCKET NUMBER.....50-255
LICENSE & DATE ISSUANCE...DPR-20, OCTOBER 16, 1972
PUBLIC DOCUMENT ROOM.....VAN ZOEREN LIBRARY
HOPE COLLEGE
HOLLAND, MICHIGAN 49423

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 6 THROUGH NOVEMBER 2, 1987 (87025): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF FOLLOWUP OF PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; ENGINEERED SAFETY FEATURES WALKDOWN; REPORTABLE EVENTS; AND REGIONAL REQUESTS. OF THE AREAS INSPECTED NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON OCTOBER 19-23, 1987 (87026): SECURITY PLAN/IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY AUDIT; RECORDS AND REPORTS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; SECURITY SYSTEM POWER SUPPLY; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL; PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; SAFEGUARDS CONTINGENCY PLAN; PROTECTION OF SAFEGUARDS INFORMATION AND LICENSEE ACTION ON PREVIOUS FINDINGS. SEVEN OF EIGHT PREVIOUS FINDINGS WERE CLOSED. THE LICENSEE WAS IN COMPLIANCE WITH NRC REQUIREMENTS IN 16 OF 17 INSPECTED AREAS. THE EXCEPTION IS NOTED BELOW: ACCESS CONTROL PERSONNEL: (A) SOME VISITORS WERE IMPROPERLY ESCORTED; (B) SOME PERSONNEL IMPROPERLY DISPLAYED BADGES.

ENFORCEMENT SUMMARY

VISITOR IMPROPERLY ESCORTED.
(8702 4)

Report Period DEC 1987

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

* PALISADES *

ENFORCEMENT SUMMARY

BADGES NOT PROPERLY DISPLAYED.
(8702 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

SHUTDOWN ON DECEMBER 4, 1987 TO INVESTIGATE THE SOURCE OF PRIMARY TO SECONDARY LEAKAGE IN THE 'B' STEAM GENERATOR. THE LICENSEE HAS ENTERED A MAINTENANCE OUTAGE WHICH WILL LAST UNTIL THE END JANUARY, 1988.

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

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

=====			

1. Docket: 50-528 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. L. HULL (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:
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>744.0</u>	<u>8,759.0</u>	<u>16,872.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>4,589.7</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>4,504.5</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>16,140,694</u>	<u>35,032,837</u>
18. Gross Elec Ener (MWH)	<u>.0</u>	<u>5,616,400</u>	<u>12,143,300</u>
19. Net Elec Ener (MWH)	<u>.0</u>	<u>5,268,268</u>	<u>11,323,114</u>
20. Unit Service Factor	<u>.0</u>	<u>51.4</u>	<u>57.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>51.4</u>	<u>57.6</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>49.3</u>	<u>55.0</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>47.5</u>	<u>52.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>31.7</u>	<u>30.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>2,092.3</u>	<u>4,271.7</u>

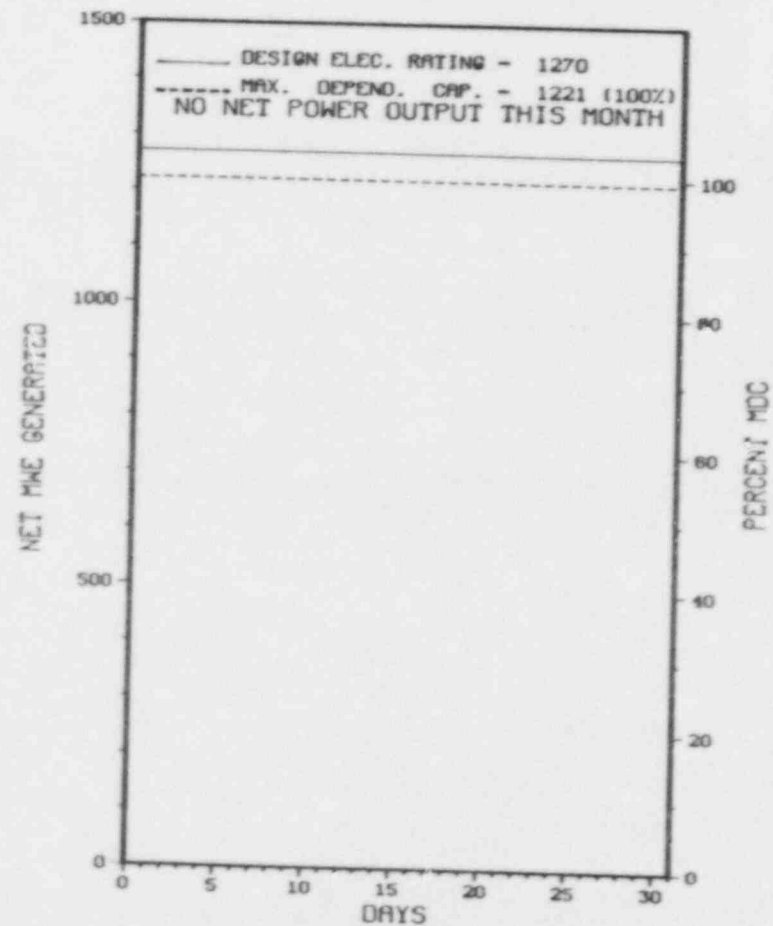
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 01/14/88

* PALO VERDE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PALO VERDE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
10	10/01/87	S	744.0	C	4			UNIT SHUTDOWN DUE TO REFUELING OUTAGE.

 * SUMMARY *

PALO VERDE 1 REMAINED SHUTDOWN IN DECEMBER 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)

* PALO VERDE 1 *

FACILITY DATA

Report Period DEC 1987

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.....R. ZIMMERMAN
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

INSPECTION STATUS

INSPECTION SUMMARY

- + INSPECTION ON OCTOBER 1, 1986 - DECEMBER 9, 1987 (REPORT NO. 50-528/87-32) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
 - + INSPECTION ON DECEMBER 7-11, 1987 (REPORT NO. 50-528/87-33) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
 - + INSPECTION ON NOVEMBER 2-6, 1987 (REPORT NO. 50-528/87-37) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
 - + INSPECTION ON OCTOBER 26-30, 1987 (REPORT NO. 50-528/87-38) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY TWO REGIONALLY BASED INSPECTORS OF OCCUPATIONAL EXPOSURE DURING EXTENDED OUTAGES. ALLEGATION NO. RV-87-A-0066, FOLLOWUP OF NONROUTINE EVENTS, AND A TOUR OF THE FACILITY. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.
- RESULTS: IN THE FOUR AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED INVOLVING TECHNICAL SPECIFICATION 6.2.2.2.B.
- + INSPECTION ON NOVEMBER 1, 1987 - DECEMBER 5, 1987 (REPORT NO. 50-528/87-39) AREAS INSPECTED: ROUTINE, ONSITE, REGULAR AND BACKSHIFT INSPECTION BY THE THREE RESIDENT INSPECTORS AND ONE REGIONALLY BASED INSPECTOR. AREAS INSPECTED INCLUDED: FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS; REVIEW OF PLANT ACTIVITIES; PLANT TOURS; ENGINEERED SAFETY FEATURE SYSTEM WALKDOWNS; SURVEILLANCE TESTING; PLANT MAINTENANCE; STARTUP TESTING; ALLEGATIONS; AND REVIEW OF PERIODIC AND SPECIAL REPORTS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 16-20, 1987 (REPORT NO. 50-528/87-40) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, LOW LEVEL RADIOACTIVE WASTE STORAGE FACILITIES, ADDITIONAL ACCIDENT-MONITORING INSTRUMENTATION, ALLEGATION FOLLOWUP AND FACILITY TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON DECEMBER 13, 1987 - JANUARY 8, 1988 (REPORT NO. 50-528/87-42) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON DECEMBER 6, 1987 - JANUARY 16, 1988 (REPORT NO. 50-528/87-43) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON DECEMBER 14-18, 1987 (REPORT NO. 50-528/87-44) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR OF ACTIVITIES ASSOCIATED WITH THE LICENSEE'S QA PROGRAM FOR STARTUP TESTING AND OPERATIONS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

VARIOUS MEETINGS WERE HELD DURING OCTOBER AND NOVEMBER, 1987, TO DISCUSS CRACKING OF REACTOR COOLANT PUMP SHAFTS. SHAFTS IN UNIT 1 ARE BEING REPAIRED OR REPLACED.

PLANT STATUS:

THE PLANT ACHIEVED INITIAL CRITICALITY ON MAY 25, 1985. THE PLANT ACHIEVED 100% POWER ON DECEMBER 9, 1985. COMMERCIAL OPERATION WAS DECLARED ON FEBRUARY 13, 1986. THE UNIT WAS SHUT DOWN ON OCTOBER 3, FOR ITS FIRST REFUELING OUTAGE, AND IS CURRENTLY IN MODE 5.

LAST IE SITE INSPECTION DATE: 12/06/87 - 01/16/88+

INSPECTION REPORT NO: 50-528/87-43+

Report Period DEC 1987

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

* PALO VERDE 1 *

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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87-26-L0	10-27-87	11-24-87	CPIAS ACTUATION DUE TO PERSONNEL ERROR
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1. Docket: 50-529 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. L. HULL (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:
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>744.0</u>	<u>8,759.0</u>	<u>11,256.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,984.2</u>	<u>9,275.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,858.2</u>	<u>9,126.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,799,320</u>	<u>24,912,161</u>	<u>33,207,167</u>
18. Gross Elec Ener (MWH)	<u>987,000</u>	<u>8,733,100</u>	<u>11,661,270</u>
19. Net Elec Ener (MWH)	<u>933,198</u>	<u>8,190,044</u>	<u>10,936,882</u>
20. Unit Service Factor	<u>100.0</u>	<u>78.3</u>	<u>81.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>78.3</u>	<u>81.1</u>
22. Unit Cap Factor (MDC Net)	<u>102.7</u>	<u>76.6</u>	<u>79.6</u>
23. Unit Cap Factor (DER Net)	<u>98.8</u>	<u>73.8</u>	<u>76.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>5.6</u>	<u>6.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>408.1</u>	<u>637.1</u>

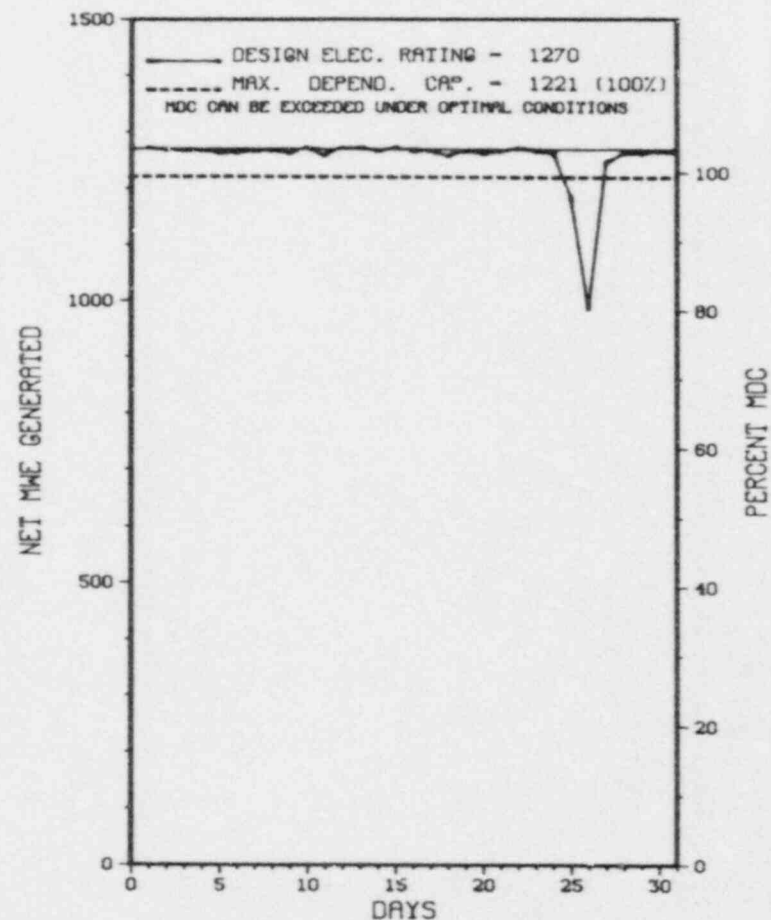
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - 2/21/88 - 84 DAYS DURATION

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

 * PALO VERDE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PALO VERDE 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
17	12/25/87	S	0.0	B	5				POWER REDUCTION TO 75% FOR MONTHLY SURVEILLANCE TESTING AND SECONDARY MAINTENANCE (MSR LEAK REPAIR)

 * SUMMARY *

 PALO VERDE 2 INCURRED 1 POWER REDUCTION IN DECEMBER FOR MONTHLY SURVEILLANCE
 TESTING AND SECONDARY MAINTENANCE.

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)


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*****
*          PALO VERDE 2          *
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FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

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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

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UTILITY & CONTRACTOR INFORMATION

```
UTILITY
LICENSEE.....ARIZONA PUBLIC SERVICE
CORPORATE ADDRESS.....P.O. BOX 21665
                                PHOENIX, ARIZONA 85036
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....GENERAL ELECTRIC
```

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....Y
IE RESIDENT INSPECTOR.....G. FIORELLI
LICENSING PROJ MANAGER.....E. LICITRA
DOCKET NUMBER.....50-529
LICENSE & DATE ISSUANCE...NPF-5i, APRIL 24, 1986
PUBLIC DOCUMENT ROOM.....MS STEFANIE MORITZ
DOCUMENTS LIBRARIAN
PHOENIX PUBLIC LIBRARY
12 EAST MCDOWELL ROAD
PHOENIX, ARIZONA 85004

INSPECTION STATUS

INSPECTION SUMMARY

- + INSPECTION ON OCTOBER 1, 1986 - DECEMBER 9, 1987 (REPORT NO. 50-529/87-32) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON DECEMBER 7-11, 1987 (REPORT NO. 50-529/87-33) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON NOVEMBER 2-6, 1987 (REPORT NO. 50-529/87-36) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON OCTOBER 26-30, 1987 (REPORT NO. 50-529/87-37) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY TWO REGIONALLY BASED INSPECTORS OF ALLEGATIONS, FOLLOWUP OF NONROUTINE EVENTS, AND A TOUR OF THE FACILITY. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

- * INSPECTION ON NOVEMBER 1 - DECEMBER 5, 1987 (REPORT NO. 50-529/87-38) AREAS INSPECTED: ROUTINE, ONSITE, REGULAR AND BACKSHIFT INSPECTION BY THREE RESIDENT INSPECTORS AND ONE REGIONALLY BASED INSPECTOR. FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS; REVIEW OF PLANT ACTIVITIES; PLANT TOURS; ENGINEERED SAFETY FEATURE SYSTEM WALKDOWNS; SURVEILLANCE TESTING; PLANT MAINTENANCE; STARTUP TESTING; ALLEGATIONS; AND REVIEW OF PERIODIC AND SPECIAL REPORTS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 16-20, 1987 (REPORT NO. 50-529/87-39) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, LOW LEVEL RADIOACTIVE WASTE STORAGE FACILITIES, ADDITIONAL ACCIDENT-MONITORING INSTRUMENTATION, ALLEGATION FOLLOWUP AND FACILITY TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION OF 10 CFR 20.203 AND ONE VIOLATION OF TECHNICAL SPECIFICATION 6.12 WERE IDENTIFIED RELATED TO RADIOLOGICAL POSTING.

+ INSPECTION ON DECEMBER 13, 1987 - JANUARY 8, 1988 (REPORT NO. 50-529/87-41) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON DECEMBER 6, 1987 - JANUARY 16, 1988 (REPORT NO. 50-529/87-42) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON DECEMBER 14-18, 1987 (REPORTED NO. 50-529/87-43) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR OF ACTIVITIES ASSOCIATED WITH THE LICENSEE'S QA PROGRAM FOR STARTUP TESTING AND OPERATIONS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

FIRST REFUELING OUTAGE SCHEDULED FOR FEBRUARY, 1988.

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.

PLANT STATUS:

THE LICENSEE DECLARED THE UNIT IN COMMERCIAL OPERATION ON SEPTEMBER 21, 1986. THE UNIT IS CURRENTLY AT 100% POWER.

LAST IE SITE INSPECTION DATE: 12/06/87 - 01/16/88+

Report Period DEC 1987

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

* PALO VERDE 2 *

INSPECTION REPORT NO: 50-529/87-42+

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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87-20-L0	10-13-87	11-09-87	SPURIOUS CREFAS
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1. Docket: 50-530 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>793.9</u>	<u>793.9</u>
13. Hours Reactor Critical	<u>677.0</u>	<u>726.9</u>	<u>726.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>606.6</u>	<u>620.7</u>	<u>620.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,192,385</u>	<u>1,244,187</u>	<u>1,244,187</u>
18. Gross Elec Ener (MWH)	<u>365,300</u>	<u>366,500</u>	<u>366,500</u>
19. Net Elec Ener (MWH)	<u>319,661</u>	<u>319,661</u>	<u>319,661</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>105.3</u>	<u>141.1</u>	<u>141.1</u>

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

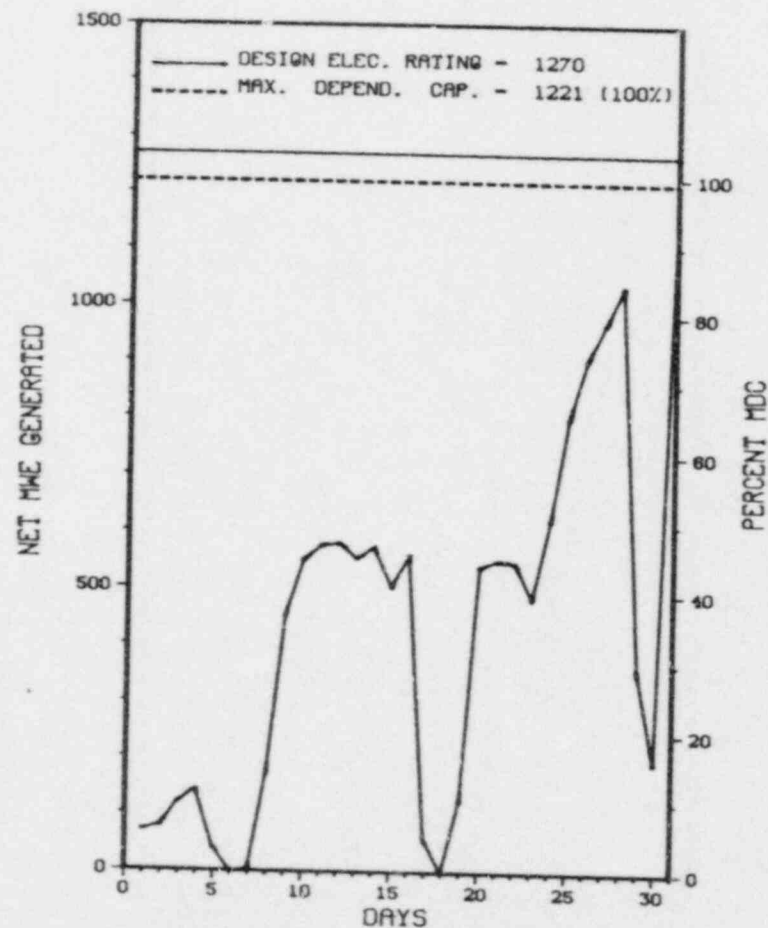
NONE

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

 * PALO VERDE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PALO VERDE 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	12/02/87	F	6.6	A	9				TRIPPED TURBINE DUE TO STEAM LEAK BETWEEN CONTROL VALVE AND THE HIGH PRESSURE TURBINE.
5	12/05/87	S	29.3	B	2				REACTOR TRIPPED FOR TESTING OF REMOTE SHUTDOWN PANEL.
6	12/07/87	F	13.0	B	9				TRIPPED TURBINE DUE TO MAINTENANCE WORK ON TURBINE.
7	12/07/87	S	2.8	B	9				TRIPPED TURBINE FOR SUBSYNCHRONOUS RESONANCE TESTING.
8	12/17/87	F	49.9	A	3	3-87-004	AA	ZC	REACTOR TRIP OCCURRED AS A RESULT OF LO DNBR CALCULATED BY CPCs. DURING INSERTION OF PART LENGTH CEAS A SUBGROUP DEVIATION OCCURRED BETWEEN GROUPS P1 AND P2, CAUSING THE INSERTION OF A SUBGROUP DEVIATION PENALTY FACTOR.
9	12/19/87	F	7.0	A	9				TURBINE TRIP DUE TO HIGH VIBRATION.
10	12/19/87	F	0.6	A	9				TURBINE TRIP DUE TO REVERSE POWER.
11	12/29/87	F	28.2	A	9				TURBINE TRIP DUE TO SBCS QUICK OPEN, RECALIBRATED TEMPERATURE SWITCHES.

 * SUMMARY *

 PALO VERDE 3 INCURRED NUMEROUS POWER OUTAGES IN DECEMBER FOR REASONS STATED ABOVE WHILE IN STARTUP TEST PROGRAM.

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)

* PALO VERDE 3 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....ARIZONA
COUNTY.....MARICOPA
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...36 MI W OF
PHOENIX, AZ
TYPE OF REACTOR.....FWR
DATE INITIAL CRITICALITY...OCTOBER 25, 1987
DATE ELEC ENER 1ST GENER...NOVEMBER 28, 1987
DATE COMMERCIAL OPERATE...*****
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.....G. FIORELLI
LICENSING PROJ MANAGER.....M. DAVIS
DOCKET NUMBER.....50-530
LICENSE & DATE ISSUANCE....NPF-74, NOVEMBER 25, 1987
PUBLIC DOCUMENT ROOM.....MS STEFANIE MORITZ
DOCUMENTS LIBRARIAN
PHOENIX PUBLIC LIBRARY
12 EAST MCDOWELL ROAD
PHOENIX, ARIZONA 85004

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON DECEMBER 13, 1987 - JANUARY 8, 1988 (REPORT NO. 50-530/87-44) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.
+ INSPECTION ON DECEMBER 6, 1987 - JANUARY 16, 1988 (REPORT NO. 50-530/87-45) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.
+ INSPECTION ON DECEMBER 14-18, 1987 (REPORT NO. 50-530/87-46) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR OF ACTIVITIES ASSOCIATED WITH THE LICENSEE'S QA PROGRAM FOR STARTUP TESTING AND OPERATIONS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.
RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

Report Period DEC 1987

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

* PALO VERDE 3 *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

NONE

LAST IE SITE INSPECTION DATE: 12/06/87 - 01/16/88+

INSPECTION REPORT NO: 50-530/87-45+

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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87-05-L0	10-30-87	11-24-87	MSIS ACTUATION DUE TO FAULTY LOGIC BOARD
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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: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: L. L. MIDDLETON (215) 841-6374

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): 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>744.0</u>	<u>8,760.0</u>	<u>118,272.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>1,729.8</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>1,724.0</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>4,979,376</u>	<u>212,810,745</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>1,648,230</u>	<u>70,019,230</u>
19. Net Elec Ener (MWH)	<u>-3,844</u>	<u>1,552,256</u>	<u>67,041,116</u>
20. Unit Service Factor	<u>.0</u>	<u>19.7</u>	<u>60.8</u>
21. Unit Avail Factor	<u>.0</u>	<u>19.7</u>	<u>60.8</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>16.9</u>	<u>53.9</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>16.6</u>	<u>53.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>42.9</u>	<u>14.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,296.0</u>	<u>12,304.0</u>

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

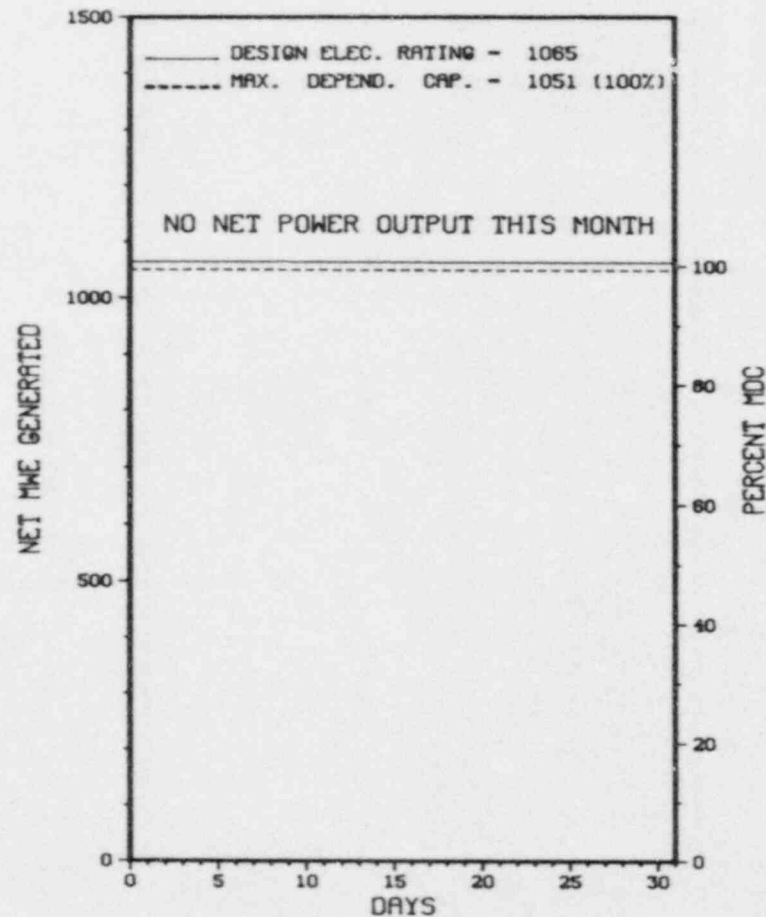
NONE

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

* PEACH BOTTOM 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PEACH BOTTOM 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PEACH BOTTOM 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
7	03/31/87	S	744.0	C	4		RC	FUELXX	CONTINUATION OF REFUEL ACTIVITY

 * SUMMARY *

 PEACH BOTTOM 2 REMAINED SHUTDOWN IN ACCORDANCE WITH NRC ORDER,
 HOWEVER, CONTINUED SCHEDULED REFUELING ACTIVITY.

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 *

F A C I L I T Y D A T A

Report Period DEC 1987

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...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 & 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.....50-277

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

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 DEC 1987

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

* PEACH BOTTOM 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

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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: 50-278 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: L. L. MIDDLETON (215) 841-6374

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): 1035

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>744.0</u>	<u>8,760.0</u>	<u>114,168.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>1,823.2</u>	<u>76,366.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>1,659.6</u>	<u>74,059.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>4,759,248</u>	<u>215,278,901</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>1,555,560</u>	<u>70,611,432</u>
19. Net Elec Ener (MWH)	<u>-3,844</u>	<u>1,460,062</u>	<u>67,702,155</u>
20. Unit Service Factor	<u>.0</u>	<u>18.9</u>	<u>64.9</u>
21. Unit Avail Factor	<u>.0</u>	<u>18.9</u>	<u>64.9</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>16.1</u>	<u>57.3</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>15.7</u>	<u>55.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>74.7</u>	<u>13.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>4,891.4</u>	<u>11,372.7</u>

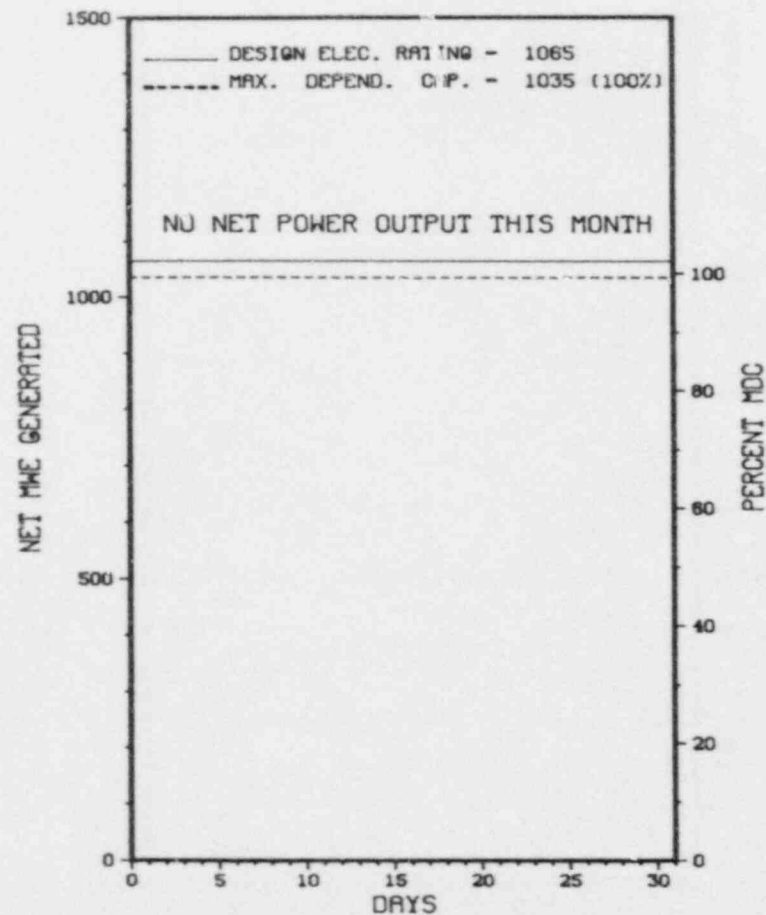
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* PEACH BOTTOM 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PEACH BOTTOM 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PEACH BOTTOM 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
7	03/31/87	S	744.0	C	4		RC	FUELXX	CONTINUATION OF REFUEL AND PIPE REPLACEMENT ACTIVITY.

 * SUMMARY *

 PEACH BOTTOM 3 REMAINED SHUTDOWN IN ACCORDANCE WITH NRC ORDER, HOWEVER, SCHEDULED
 REFUELING ACTIVITY IS CONTINUING.

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)

* PEACH BOTTOM 3 *

F A C I L I T Y D A T A

Report Period DEC 1987

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
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

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period DEC 1987

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

* PEACH BOTTOM 3 *

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
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NO INPUT PROVIDED.

=====

1. Docket: 50-440 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 1205

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>744.0</u>	<u>1,044.0</u>	<u>1,044.0</u>
13. Hours Reactor Critical	<u>548.3</u>	<u>811.3</u>	<u>811.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>510.6</u>	<u>773.4</u>	<u>773.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,647,252</u>	<u>2,561,519</u>	<u>2,561,519</u>
18. Gross Elec Ener (MWH)	<u>565,226</u>	<u>878,462</u>	<u>878,462</u>
19. Net Elec Ener (MWH)	<u>531,078</u>	<u>828,484</u>	<u>828,484</u>
20. Unit Service Factor	<u>68.6</u>	<u>74.1</u>	<u>74.1</u>
21. Unit Avail Factor	<u>68.6</u>	<u>74.1</u>	<u>74.1</u>
22. Unit Cap Factor (MDC Net)	<u>59.2</u>	<u>65.9</u>	<u>65.9</u>
23. Unit Cap Factor (DER Net)	<u>59.2</u>	<u>65.9</u>	<u>65.9</u>
24. Unit Forced Outage Rate	<u>31.4</u>	<u>25.9</u>	<u>25.9</u>
25. Forced Outage Hours	<u>233.4</u>	<u>270.6</u>	<u>270.6</u>

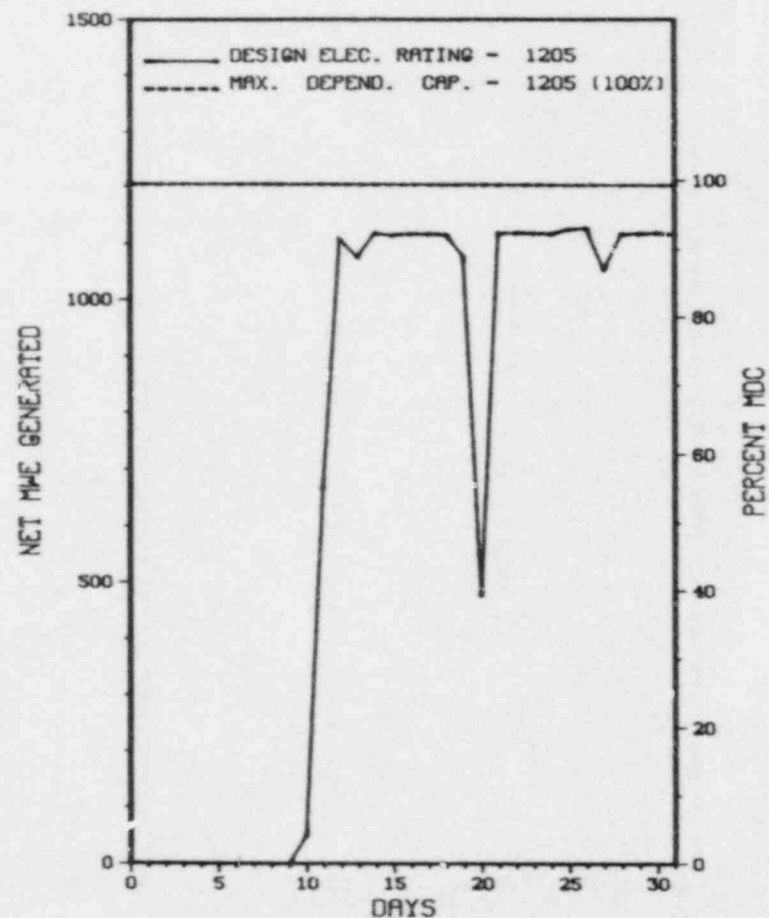
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
SURV/MAINT-1/3/88-19 DAYS; SURV/MAINT-3/11/88-10 DAYS.

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

 * PERRY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PERRY 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PERRY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	11/29/87	F	214.5	A	4				CONTINUATION OF SHUTDOWN PERFORMANCE.
2	12/10/87	F	11.6	A	9				AUTOMATIC TURBINE TRIP TO HIGH MSR DRAIN TANK LEVEL (REACTOR WAS NOT SHUTDOWN). DRAIN TANK LEVEL CONTROLLER WAS REPAIRED.
3	12/20/87	F	7.3	A	9				TURBINE TAKEN OFF-LINE DUE TO A STEAM LEAK UPSTREAM OF AN INSTRUMENT TEST CAP (REACTOR WAS NOT SHUTDOWN). THE LINE WAS CUT, CAPPED AND SEAL WELDED.

 * SUMMARY *

 PERRY 1 COMPLETED EQUIPMENT REPAIR IN DECEMBER AND RETURNED TO FULL POWER, SUBSEQUENTLY INCURRED 2 MORE 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)

* PERRY 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

NONE

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                PERRY 1                  X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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OTHER ITEMS

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

PLANT HAS COMPLETED ALL TEST CONDITIONS. POWER ASCENSION PROGRAM. LICENSEE ESTABLISHED COMMERCIAL OPERATION DATE AS NOVEMBER 18, 1987. LICENSEE CURRENTLY IS IN AN OUTAGE UNTIL JANUARY 25, 1988.

LAST IE SITE INSPECTION DATE: 02/01/88

INSPECTION REPORT NO: 88003

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-74	111487	121487	FLOW INDICATION INACCURACY RESULTS IN INDICATED HIGH DIFFERENTIAL FLOW AND REACTOR WATER CLEANUP ISOLATION
87-76	120387	122987	DEFICIENT SURVEILLANCE INSTRUCTIONS RESULT IN MAJOR STEAM DRAIN LINE ISOLATIONS

1. Docket: 50-293 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>132,024.0</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. Hrs 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>58.5</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>58.5</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>49.4</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>50.5</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>

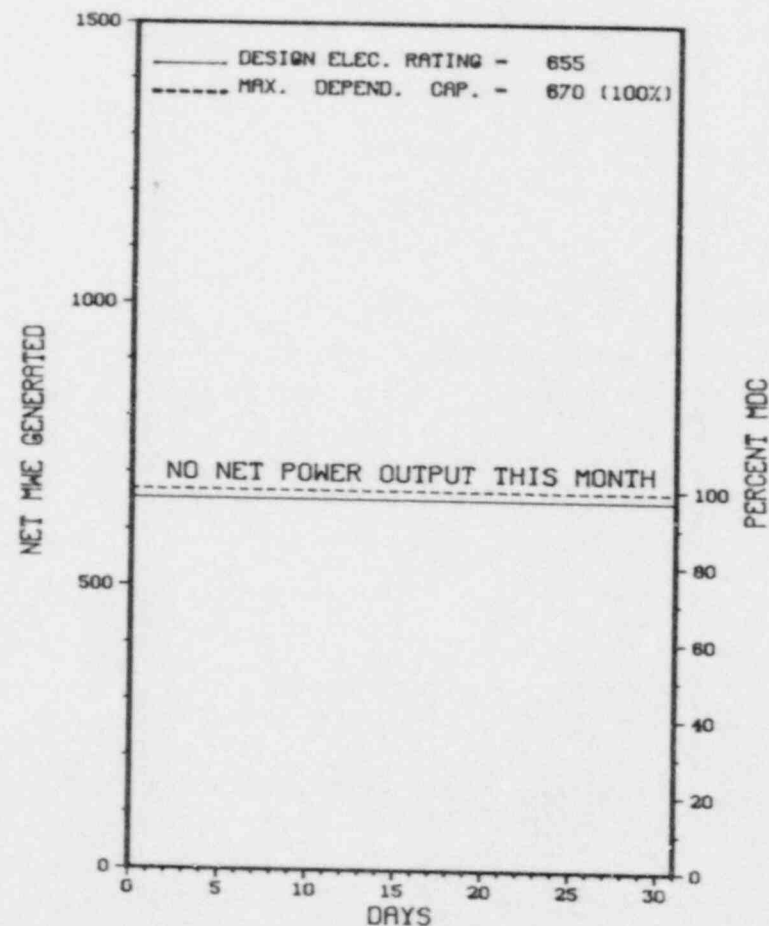
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

27. If Currently Shutdown Estimated Startup Date: 03/01/88

* PILGRIM 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PILGRIM 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* PILGRIM 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
01	07/25/86	S	744.0	C	4			SHUTDOWN FOR RFO 7

* SUMMARY *

PILGRIM 1 REMAINED SHUTDOWN IN DECEMBER FOR 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)

* PILGRIM 1 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....MASSACHUSETTS
COUNTY.....PLYMOUTH
DIST AND DIRECTION FROM
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 STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 19.111(A) REQUIRES, IN PART, THAT EACH LICENSEE POST CURRENT COPIES OF ANY NOTICE OF VIOLATION INVOLVING RADIOLOGICAL WORKING CONDITIONS. 10 CFR 19.11(C) REQUIRES THAT COPIES BE POSTED WITHIN 2 WORKING DAYS AFTER RECEIPT OF THE DOCUMENTS. CONTRARY TO THE ABOVE, AS OF SEPTEMBER 17, 1987, A NOTICE OF VIOLATION, DATED AUGUST 24, 1987 AND RECEIVED BY THE LICENSEE ON SEPTEMBER 3, 1987 WAS NOT POSTED.
(3704 5)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

INSPECTION STATUS - (CONTINUED)

PAGE 2-317

1. Docket: 50-266 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>150,360.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,789.4</u>	<u>122,767.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>7.3</u>	<u>652.7</u>
15. Hrs Generator On-line	<u>744.0</u>	<u>7,350.3</u>	<u>120,044.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>5.3</u>	<u>87.3</u>
17. Gross Therm Ener (MWH)	<u>1,120,653</u>	<u>10,922,704</u>	<u>165,627,054</u>
18. Gross Elec Ener (MWH)	<u>384,170</u>	<u>3,729,380</u>	<u>55,823,350</u>
19. Net Elec Ener (MWH)	<u>368,518</u>	<u>3,567,092</u>	<u>53,168,428</u>
20. Unit Service Factor	<u>100.0</u>	<u>83.9</u>	<u>79.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>84.0</u>	<u>80.4</u>
22. Unit Cap Factor (MDC Net)	<u>102.1</u>	<u>84.7</u>	<u>72.4*</u>
23. Unit Cap Factor (DER Net)	<u>99.7</u>	<u>81.9</u>	<u>71.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.3</u>	<u>2.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>20.0</u>	<u>2,464.3</u>

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

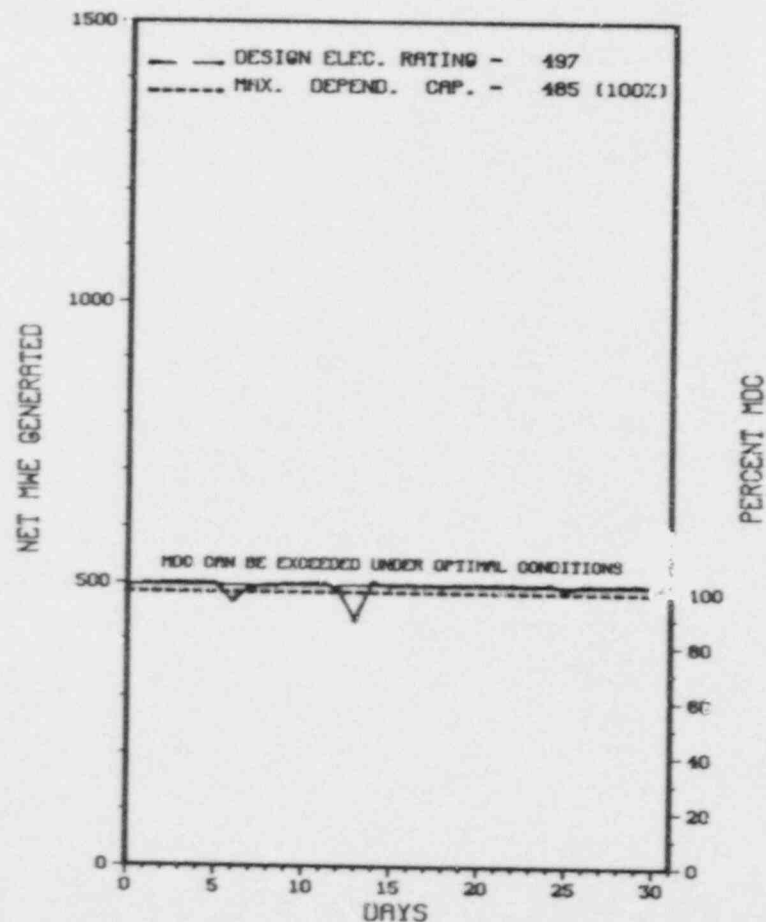
REFUELING/MAINTENANCE - APRIL 8, 1988 - DURATION 6 WEEKS

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

* POINT BEACH 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

POINT BEACH 1



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

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 DECEMBER 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 DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....WISCONSIN
COUNTY.....MCNITOWOC
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 GENER...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 HANN PUBLIC LIBRARY
1516 16TH ST.
TWO RIVERS, WISCONSIN 54241

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 19-29, 1987 (87021;87022): 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. CLOSED TI 2515/64R1 AND TI 2515/91. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FROM OCTOBER 1-31, 1987, (87020; 87020): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; AND OUTAGES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* POINT BEACH 1 *

OTHER ITEMS

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 01/06/88

INSPECTION REPORT NO: 88004

REPORTS FROM LICENSEE

=====			
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

07-05	112187	121587	REACTOR TRIP WITH SAFETY INJECTION DUE TO SPRAY VALVE FAILURE
=====			

1. Docket: 50-301 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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):

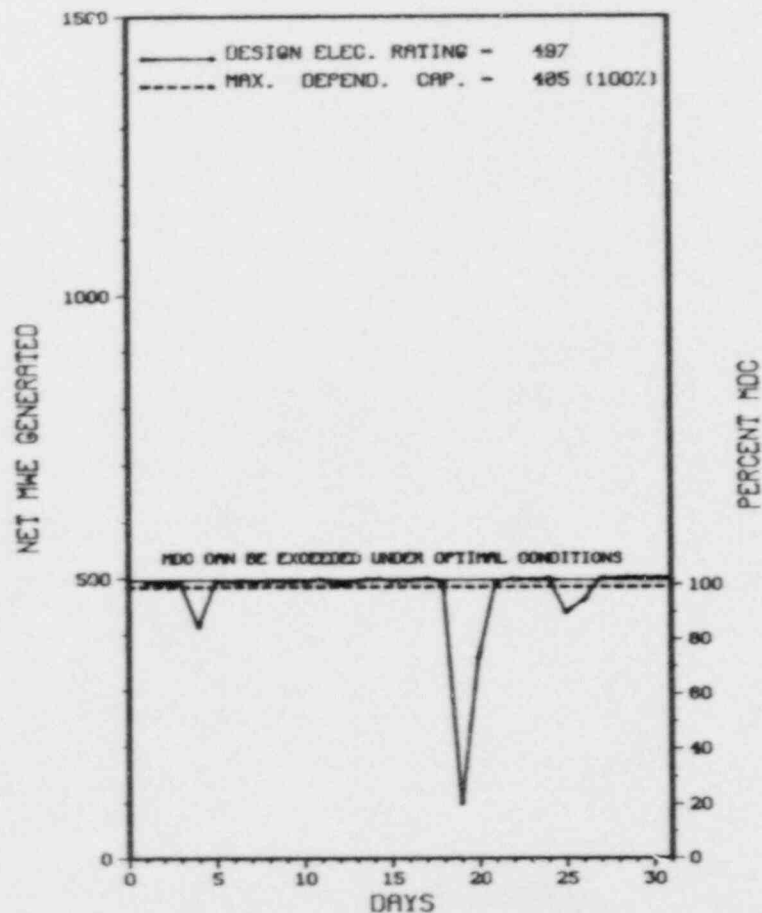
11. Reasons for Restrictions, If Any:
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>135,145.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,583.1</u>	<u>118,394.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>5.6</u>	<u>215.0</u>
15. Hrs Generator On-Line	<u>739.9</u>	<u>7,481.1</u>	<u>116,470.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>48.2</u>	<u>292.4</u>
17. Gross Therm Ener (MWH)	<u>1,067,563</u>	<u>11,103,594</u>	<u>164,570,595</u>
18. Gross Elec Ener (MWH)	<u>368,340</u>	<u>3,782,590</u>	<u>55,780,220</u>
19. Net Elec Ener (MWH)	<u>352,215</u>	<u>3,606,145</u>	<u>53,146,414</u>
20. Unit Service Factor	<u>99.4</u>	<u>85.4</u>	<u>86.2</u>
21. Unit Avail Factor	<u>99.4</u>	<u>86.0</u>	<u>86.4</u>
22. Unit Cap Factor (MDC Net)	<u>97.6</u>	<u>84.9</u>	<u>80.2*</u>
23. Unit Cap Factor (DER Net)	<u>95.3</u>	<u>82.8</u>	<u>79.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.1</u>	<u>1.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>82.5</u>	<u>851.2</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Start-up Date: N/A

* POINT BEACH 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
POINT BEACH 2



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* POINT BEACH 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
6	12/19/88	S	4.1	B	9		EB	TRANSF	GENERATOR TAKEN OFF LINE FOR 19 KV POTENTIAL TRANSFORMER REPAIRS AND MAIN TURBINE BALANCING.

* SUMMARY *

POINT BEACH 2 INCURRED 1 POWER OUTAGE IN DECEMBER FOR TRANSFORMER REPAIRS AND TURBINE BALANCING.

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

* POINT BEACH 2 *

FACILITY DATA

Report Period DEC 1987

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 STRET
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 STATUS

INSPECTION SUMMARY

INSPECTION ON OCTOBER 19-29, 1987 (87021;87022): ROUTINE ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF NERIC LETTER 83-28 IN THE AREAS OF EQUIPMENT CLASSIFICATION, VENDOR INTERFACE, POST MAINTENANCE TESTING AND REACTOR TRIP SYSTEM LIABILITY. CLOSED TI 2515/64R1 AND TI 2515/91. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FROM OCTOBER 1-31, 1987, (87020; 87020): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; PHYSICAL SECURITY; RADIOLOGICAL PROTECTION; AND OUTAGES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period DEC 1987

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

* POINT BEACH 2 *

OTHER ITEMS

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 01/06/88

INSPECTION REPORT NO: 88004

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
87-05	112087	121787	TURBINE RUNBACK CAUSED BY A DROPPED CONTROL ROD

=====

1. Docket: 50-282 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 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

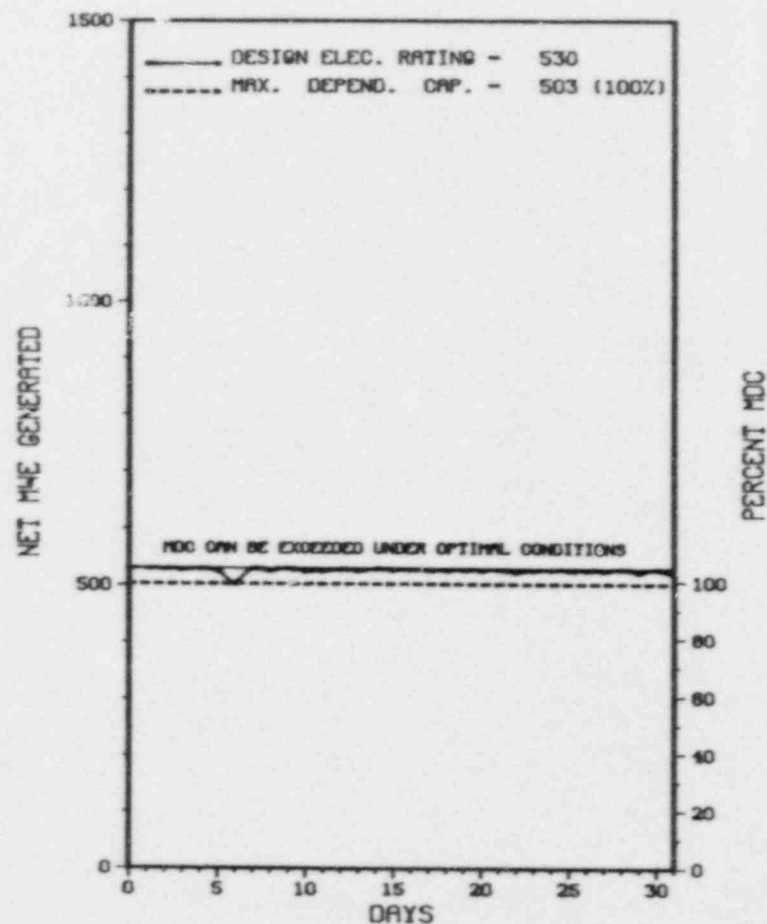
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>123,096.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,287.6</u>	<u>102,543.2</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,571.1</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,234.2</u>	<u>101,108.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,217,722</u>	<u>11,446,956</u>	<u>159,053,924</u>
18. Gross Elec Ener (MWH)	<u>411,370</u>	<u>3,812,020</u>	<u>52,074,010</u>
19. Net Elec Ener (MWH)	<u>391,435</u>	<u>3,590,268</u>	<u>48,837,665</u>
20. Unit Service Factor	<u>100.0</u>	<u>82.6</u>	<u>82.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>82.6</u>	<u>82.1</u>
22. Unit Cap Factor (MDC Net)	<u>104.6</u>	<u>81.5</u>	<u>78.9</u>
23. Unit Cap Factor (DER Net)	<u>99.3</u>	<u>77.3</u>	<u>74.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>4.0</u>	<u>6.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>300.2</u>	<u>3,715.2</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

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

 * PRAIRIE ISLAND 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PRAIRIE ISLAND 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* PRAIRIE ISLAND 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
	12/06/87	C	0.0	B	5			TURBINE VALVES TESTING.

* SUMMARY *

PRAIRIE ISLAND 1 INCURRED 1 POWER REDUCTION IN DECEMBER FOR TURBINE VALVE TESTING.

Type	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
C-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 DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....MINNESOTA
COUNTY.....GOODHUE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...28 MI SE OF
MINN'APOLIS, 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

INSPECTION STATUS

INSPECTION SUMMARY

NONE

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period DEC 1987

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

* PRAIRIE ISLAND 1 *

OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 01/12/88

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      DATE OF      SUBJECT
            EVENT        REPORT
-----
87-19      111087      121087      FAILURE TO MANUALLY LOG AXIAL FLUX DIFFERENCE WITH PLANT PROCESS COMPUTER OUT OF SERVICE
=====
```

1. Docket: 50-306 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: DALE DUGSTAD (612) 388-1121

4. Licensed Thermal Power (MWh): 1650

5. Nameplate Rating (Gross MWe): 659 X 0.9 = 593

6. Design Electrical Rating (Net MWe): 530

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>744.0</u>	<u>8,760.0</u>	<u>114,214.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>8,760.0</u>	<u>100,235.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,516.1</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>8,760.0</u>	<u>99,194.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,115,759</u>	<u>14,146,721</u>	<u>156,146,077</u>
18. Gross Elec Ener (MWH)	<u>369,660</u>	<u>4,681,890</u>	<u>50,832,330</u>
19. Net Elec Ener (MWH)	<u>350,807</u>	<u>4,429,989</u>	<u>47,779,423</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>86.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>86.8</u>
22. Unit Cap Factor (MDC Net)	<u>94.3</u>	<u>101.1</u>	<u>83.7</u>
23. Unit Cap Factor (DER Net)	<u>89.0</u>	<u>95.4</u>	<u>78.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>3.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>3,359.0</u>

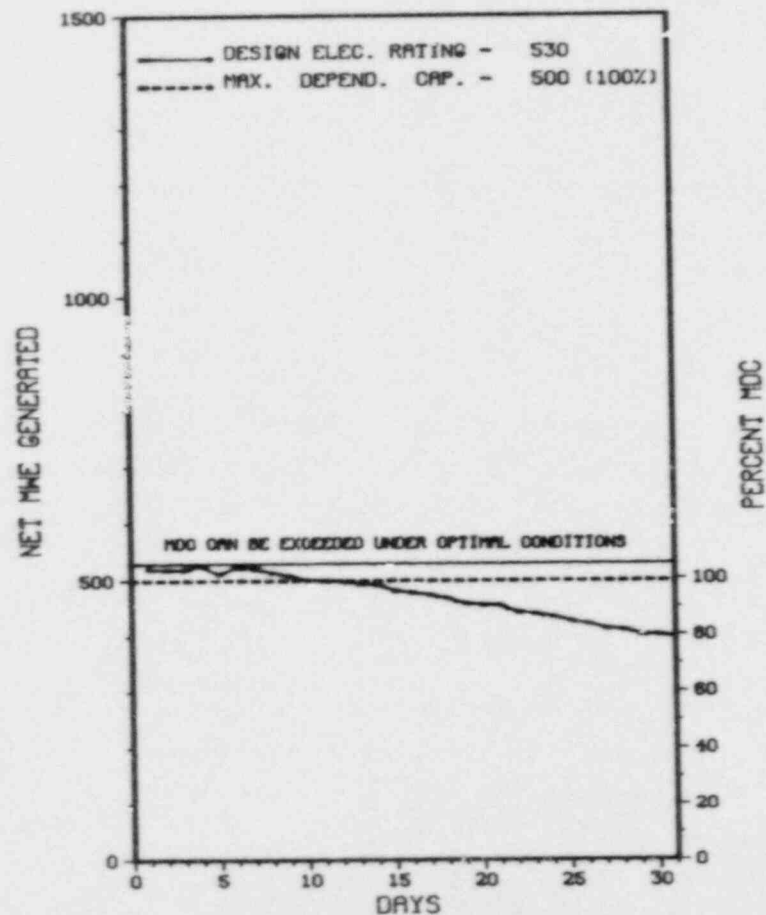
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - JANUARY 6, 1988

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

* PRAIRIE ISLAND 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PRAIRIE ISLAND 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * PRAIRIE ISLAND 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
	12/08/87	S	0.0	H	5				STARTED COASTDOWN OPERATION.
	12/26/87	S	0.0	B	5				TURBINE OVERSPEED TRIP TEST.

 * SUMMARY *

 PRAIRIE ISLAND 2 INCURRED 2 POWER REDUCTIONS FOR REASONS STATED ABOVE.

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)

* PRAIRIE ISLAND 2 *

FACILITY DATA

Report Period DEC 1987

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 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

INSPECTION STATUS

INSPECTION SUMMARY

NONE

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period DEC 1987

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

* PRAIRIE ISLAND 2 *

OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 02/15/88

INSPECTION REPORT NO: 88003

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

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NONE			

=====

1. Docket: 50-256 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>137,088.0</u>
13. Hours Reactor Critical	<u>218.0</u>	<u>6,251.6</u>	<u>109,064.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,421.9</u>
15. Hrs Generator On-Line	<u>125.0</u>	<u>6,141.7</u>	<u>105,457.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>909.2</u>
17. Gross Therm Ener (MWH)	<u>69,025</u>	<u>14,241,357</u>	<u>223,299,175</u>
18. Gross Elec Ener (MWH)	<u>70,467</u>	<u>4,670,118</u>	<u>72,425,618</u>
19. Net Elec Ener (MWH)	<u>25,806</u>	<u>4,456,087</u>	<u>67,904,070</u>
20. Unit Service Factor	<u>16.8</u>	<u>70.1</u>	<u>76.9</u>
21. Unit Avail Factor	<u>16.8</u>	<u>70.1</u>	<u>77.6</u>
22. Unit Cap Factor (MDC Net)	<u>4.5</u>	<u>66.1</u>	<u>64.4</u>
23. Unit Cap Factor (DER Net)	<u>4.4</u>	<u>64.5</u>	<u>62.8</u>
24. Unit Forced Outage Rate	<u>12.6</u>	<u>.7</u>	<u>5.2</u>
25. Forced Outage Hours	<u>18.1</u>	<u>44.2</u>	<u>3,436.4</u>
26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):			

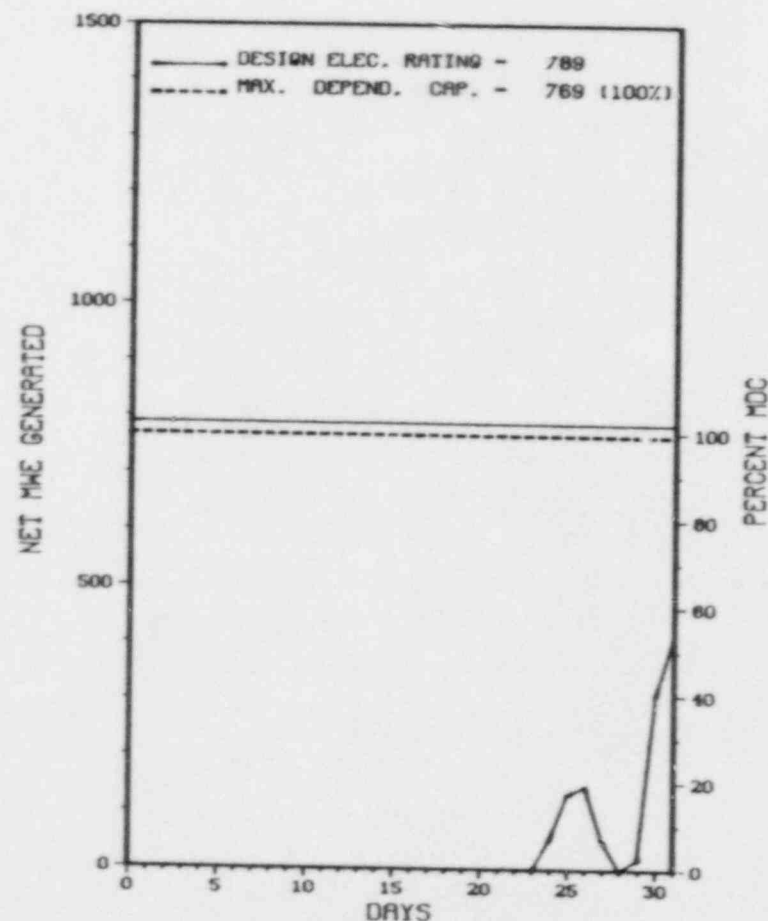
NONE

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

 * Q U A D C I T I E S 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

QUAD CITIES 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * QUAD CITIES 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-20	09/12/87	S	545.4	C	4		RC	FUELXX	END OF CYCLE NINE REFUELING OUTAGE
87-21	12/23/87	F	7.5	A	9		TA	TG	GENERATOR TRIPPED DUE TO TURBINE VIBRATIONS
87-22	12/24/87	F	10.6	A	9		TA	TG	GENERATOR TRIPPED DUE TO TURBINE VIBRATIONS
87-23	12/27/87	S	54.0	B	9		TA	TG	TURBINE TRIPPED FOR OVERSPEED TEST
87-24	12/29/87	S	1.5	B	9		TA	TG	TURBINE TRIPPED FOR OVERSPEED TEST

 * SUMMARY *

 QUAD CITIES 1 COMPLETED SCHEDULED REFUELING OUTAGE IN DEC. MBER.
 SUBSEQUENTLY INCURRED 4 POWER OUTAGES FOR REASONS CITED 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)

* QUAD CITIES 1 *

FACILITY DATA

Report Period DEC 1987

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...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 & 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.....50-254

LICENSE & DATE ISSUANCE...DPR-29, DECEMBER 14, 1972

PUBLIC DOCUMENT ROOM.....DIXON PUBLIC LIBRARY
 221 HENNEPIN AVENUE
 DIXON, ILLINOIS 61021

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 2-6, 1987 (87031; 87031): ROUTINE, UNANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM: EMERGENCY PLAN ACTIVATIONS; OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM; EMERGENCY DETECTION AND CLASSIFICATION; NOTIFICATIONS AND COMMUNICATIONS; CHANGES TO THE PROGRAM; SHIFT STAFFING AND AUGMENTATION; KNOWLEDGE AND PERFORMANCE OF DUTIES (TRAINING); AND LICENSEE AUDITS. THE INSPECTION INVOLVED TWO NRC INSPECTORS. TWO VIOLATIONS OF NRC REQUIREMENTS, ONE UNRESOLVED ITEM AND SIX OPEN ITEMS WERE IDENTIFIED DURING THE INSPECTION. THE NOTICES OF VIOLATION ARE ENCLOSURES TO THE REPORT'S TRANSMITTAL LETTER. THE VIOLATIONS AND OTHER ITEMS ARE DESCRIBED IN THE TEXT OF THE INSPECTION REPORT.

INSPECTION ON AUGUST 31 THROUGH OCTOBER 29, 1987 (87021; 87021): INCLUDED A REVIEW OF AN ALLEGATION THAT SECURITY FORCE MEMBERS WERE REQUIRED TO WORK EXCESSIVE OVERTIME HOURS. ONE SUPERVISOR ALLEGEDLY WAS REQUIRED TO WORK 110 HOURS IN A SEVEN DAY PERIOD, AND ANOTHER SECURITY OFFICER WAS ALLEGEDLY REQUIRED TO WORK 28 HOURS WITHIN A 31 HOUR PERIOD. ON AUGUST 12, 1987, DISCIPLINARY ACTION INVOLVING A SECURITY OFFICER WAS ALLEGEDLY CAUSED BY FATIGUE BECAUSE OF EXCESSIVE OVERTIME HOURS. THE INSPECTION WAS CONDUCTED BY ONE NRC INSPECTOR. NO VIOLATIONS OF NRC REQUIREMENTS WERE NOTED. THE SPECIFIC ALLEGATIONS WERE NOT SUBSTANTIATED. HOWEVER, THE LICENSEE SECURITY MANAGEMENT AGREED TO CLOSER MONITOR SECURITY FORCE WORKING HOURS DURING NONEMERGENCY CONDITIONS TO ADDRESS OUR CONCERN PERTAINING TO ONE SECURITY FORCE MEMBER BEING SCHEDULED TO WORK 28 HOURS WITHIN A 32 HOUR PERIOD.

INSPECTION ON SEPTEMBER 22 THROUGH NOVEMBER 5, 1987 (87025; 87025): ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF GENERIC LETTER 85-96 RELATIVE TO ATWS MITIGATING SYSTEMS (25020) AND ONSITE FOLLOWUP OF EVENTS AT OPERATING POWER REACTORS (98702). TEMPORARY INSTRUCTION (TI) 2590/20 WAS CLOSED. ONE VIOLATION (FAILURE TO IMPLEMENT AN ADEQUATE PROCEDURE) WAS IDENTIFIED.

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 2-6, 1987, AND NOVEMBER 13 AND DECEMBER 2, 1987 (87032; 87032): ROUTINE, ANNOUNCED INSPECTION OF: (1) THE CHEMISTRY PROGRAM, INCLUDING PROCEDURES, ORGANIZATION, AND TRAINING; (2) PRIMARY AND SECONDARY SYSTEMS WATER QUALITY CONTROL PROGRAMS; (3) QUALITY ASSURANCE/QUALITY CONTROL PROGRAM IN THE LABORATORY; AND (4) NONRADIOLOGICAL CONFIRMATORY MEASUREMENTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87023; 87023; 87027; 87028): SPECIAL, ANNOUNCED CLOSEOUT INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING ROUTINELY AT FULL POWER OR EGC FOLLOWING STARTUP FROM REFUELING ON CONNECTION TO THE GRID ON 12/29/87.

LAST IE SITE INSPECTION DATE: 01/14/88

INSPECTION REPORT NO: 88003

Report Period DEC 1987

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

* QUAD CITIES 1 *

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-21	111087	120787	1/2A DIESEL FIRE PUMP INOPERABLE DUE TO INTAKE BEING EMPTY FOR MAINTENANCE ACTIVITIES
87-22	110987	112387	REACTOR SCRAM WHILE SHUTDOWN-NEUTRON MONITOR SPIKED HIGH HIGH
87-23	111187	120887	1/2B DIESEL FIRE PUMP STARTER MOTOR FIRE DUE TO LOOSE CONNECTION AND CORROSION
87-24	112087	121687	PRIMARY CONTAINMENT STRUCTURAL STEEL CONNECTIONS OUTSIDE FINAL SAFETY ANALYSIS REPORT DESIGN CRITERIA DUE TO APPARENT ORIGINAL CONSTRUCTION OVERSIGHT
87-25	112587	122287	CNTRL RM HABITABILITY STUDY DESIGN BASIS ASSUMPTION ERROR RESULTS IN EXCEEDING ALLOWABLE FILTER EFFICIENCY
87-26	113087	121987	PIPING SUPPORT OUTSIDE COMPLIANCE WITH SAFETY ANALYSIS REPORT DUE TO CONSTRUCTION ERROR.
87-27	120187	122987	CONTROL ROOM VENTILATION ISOLATIONS DUE TO TOXIC GAS ANALYZER TRIPS
87-28	120287	122987	OPEN PENETRATIONS FOUND THROUGH FIRE BARRIERS DUE TO PERSONNEL ERRORS
87-29	120787	122287	BUS 13-1 DEGRADED VOLTAGE 5 MINUTE TIMER FOUND OUT OF TOLERANCE DUE TO SETPOINT DRIFT

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1. Docket: 50-265 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: K.A. SCHMIDT (309) 654-2241 X 2147

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>744.0</u>	<u>8,760.0</u>	<u>136,198.0</u>
13. Hours Reactor Critical	<u>733.6</u>	<u>6,941.4</u>	<u>104,657.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,985.8</u>
15. Hrs Generator On-Line	<u>720.8</u>	<u>6,836.2</u>	<u>101,535.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>702.9</u>
17. Gross Therm Ener (MWH)	<u>1,703,136</u>	<u>16,030,868</u>	<u>217,370,567</u>
18. Gross Elec Ener (MWH)	<u>553,721</u>	<u>5,198,492</u>	<u>69,557,774</u>
19. Net Elec Ener (MWH)	<u>528,551</u>	<u>4,952,988</u>	<u>65,551,431</u>
20. Unit Service Factor	<u>96.9</u>	<u>78.0</u>	<u>74.5</u>
21. Unit Avail Factor	<u>96.9</u>	<u>78.0</u>	<u>75.1</u>
22. Unit Cap Factor (MDC Net)	<u>92.4</u>	<u>73.5</u>	<u>62.6</u>
23. Unit Cap Factor (DER Net)	<u>90.0</u>	<u>71.7</u>	<u>61.0</u>
24. Unit Forced Outage Rate	<u>3.1</u>	<u>17.1</u>	<u>8.3</u>
25. Forced Outage Hours	<u>23.2</u>	<u>1,407.2</u>	<u>5,283.2</u>

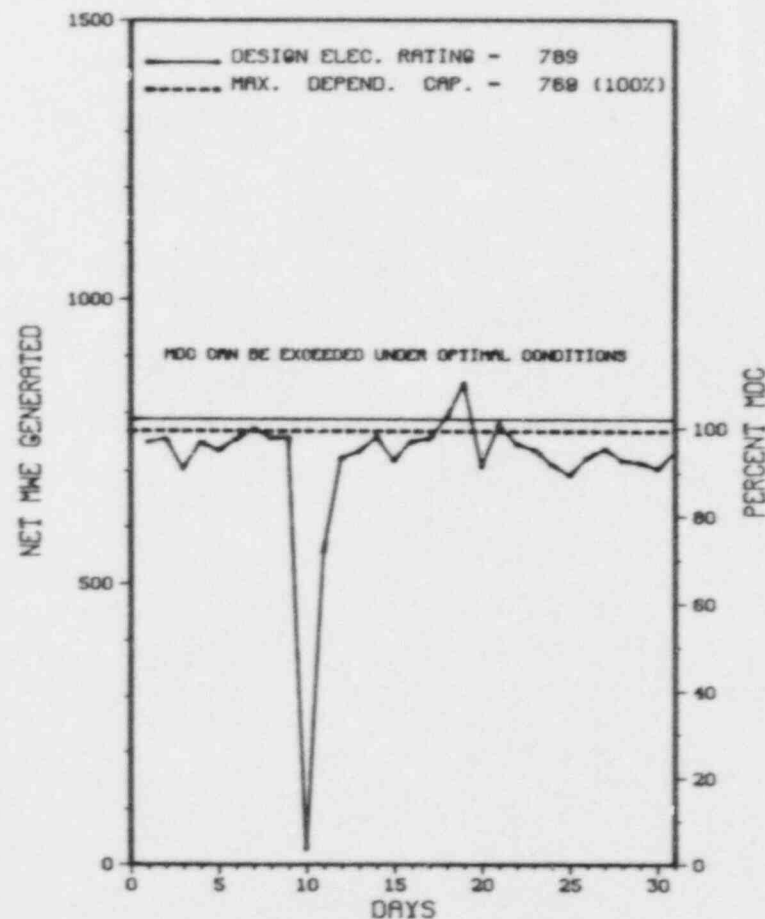
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* Q U A D C I T I E S 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

Q U A D C I T I E S 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXX
 * QUAD CITIES 2 *
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-22	12/10/87	F	23.2	A	3	2-87-020	TA	TG	REACTOR SCRAM ON TURBINE/GENERATOR LOAD MISMATCH

XXXXXXXXXX
 * SUMMARY *
 XXXXXXXXXXXXX

QUAD CITIES 2 INCURRED 1 OUTAGE IN DECEMBER FOR REASON STATED ABOVE.

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

* QUAD CITIES 2 *

FACILITY DATA

Report Period DEC 1987

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 25, 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.....50-265

LICENSE & DATE ISSUANCE....DPR-30, DECEMBER 15, 1972

PUBLIC DOCUMENT ROOM.....DIXON PUBLIC LIBRARY
 221 MENNEPIN AVENUE
 DIXON, ILLINOIS 61021

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 2-6, 1987 (87031; 87031): ROUTINE, UNANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM: EMERGENCY PLAN ACTIVATIONS; OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM; EMERGENCY DETECTION AND CLASSIFICATION; NOTIFICATIONS AND COMMUNICATIONS; CHANGES TO THE PROGRAM; SHIFT STAFFING AND AUGMENTATION; KNOWLEDGE AND PERFORMANCE OF DUTIES (TRAINING); AND LICENSEE AUDITS. THE INSPECTION INVOLVED TWO NRC INSPECTORS. TWO VIOLATIONS OF NRC REQUIREMENTS, ONE UNRESOLVED ITEM AND SIX OPEN ITEMS WERE IDENTIFIED DURING THE INSPECTION. THE NOTICES OF VIOLATION ARE ENCLOSURES TO THE REPORT'S TRANSMITTAL LETTER. THE VIOLATIONS AND OTHER ITEMS ARE DESCRIBED IN THE TEST OF THE INSPECTION REPORT.

INSPECTION ON AUGUST 31 THROUGH OCTOBER 29, 1987 (87021; 87021): INCLUDED A REVIEW OF AN ALLEGATION THAT SECURITY FORCE MEMBERS WERE REQUIRED TO WORK EXCESSIVE OVERTIME HOURS. ONE SUPERVISOR ALLEGEDLY WAS REQUIRED TO WORK 110 HOURS IN A SEVEN DAY PERIOD, AND ANOTHER SECURITY OFFICER WAS ALLEGEDLY REQUIRED TO WORK 28 HOURS WITHIN A 31 HOUR PERIOD. ON AUGUST 12, 1987, DISCIPLINARY ACTION INVOLVING A SECURITY OFFICER WAS ALLEGEDLY CAUSED BY FATIGUE BECAUSE OF EXCESSIVE OVERTIME HOURS. THE INSPECTION WAS CONDUCTED BY ONE NRC INSPECTOR. NO VIOLATIONS OF NRC REQUIREMENTS WERE NOTED. THE SPECIFIC ALLEGATIONS WERE NOT SUBSTANTIATED. HOWEVER, THE LICENSEE SECURITY MANAGEMENT AGREED TO CLOSER MONITOR SECURITY FORCE WORKING HOURS DURING NONEMERGENCY CONDITIONS TO ADDRESS OUR CONCERN PERTAINING TO ONE SECURITY FORCE MEMBER BEING SCHEDULED TO WORK 28 HOURS WITHIN A 32 HOUR PERIOD.

INSPECTION ON SEPTEMBER 22 THROUGH NOVEMBER 5, 1987 (87025; 87025): ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF GENERIC LETTER 85-06 RELATIVE TO ATWS MITIGATING SYSTEMS (25020) AND ONSITE FOLLOWUP OF EVENTS AT OPERATING POWER REACTORS (98702). TEMPORARY INSTRUCTION (TI) 2500/20 WAS CLOSED. ONE VIOLATION (FAILURE TO IMPLEMENT AN ADEQUATE PROCEDURE) WAS IDENTIFIED.

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* QUAD CITIES 2 *

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 2-6, 1987, AND NOVEMBER 13 AND DECEMBER 2, 1987 (87032; 87032): ROUTINE, ANNOUNCED INSPECTION OF: (1) THE CHEMISTRY PROGRAM, INCLUDING PROCEDURES, ORGANIZATION, AND TRAINING; (2) PRIMARY AND SECONDARY SYSTEMS WATER QUALITY CONTROL PROGRAMS; (3) QUALITY ASSURANCE/QUALITY CONTROL PROGRAM IN THE LABORATORY; AND (4) NONRADIOLOGICAL CONFIRMATORY MEASUREMENTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87023; 87023; 87027; 87028): SPECIAL, ANNOUNCED CLOSEDOUT INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

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

Report Period DEC 1987

REPORTS FROM LICENSEE

* QUAD CITIES 2 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
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87-19     111687    120487    PIPING SUPPORTS OUTSIDE COMPLIANCE WITH SAFETY ANALYSIS REPORT DUE TO DESIGN ERROR
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1. Docket: 50-312 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: R. MILLER (916) 452-3211 X4477

4. Licensed Thermal Power (MWt): 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):

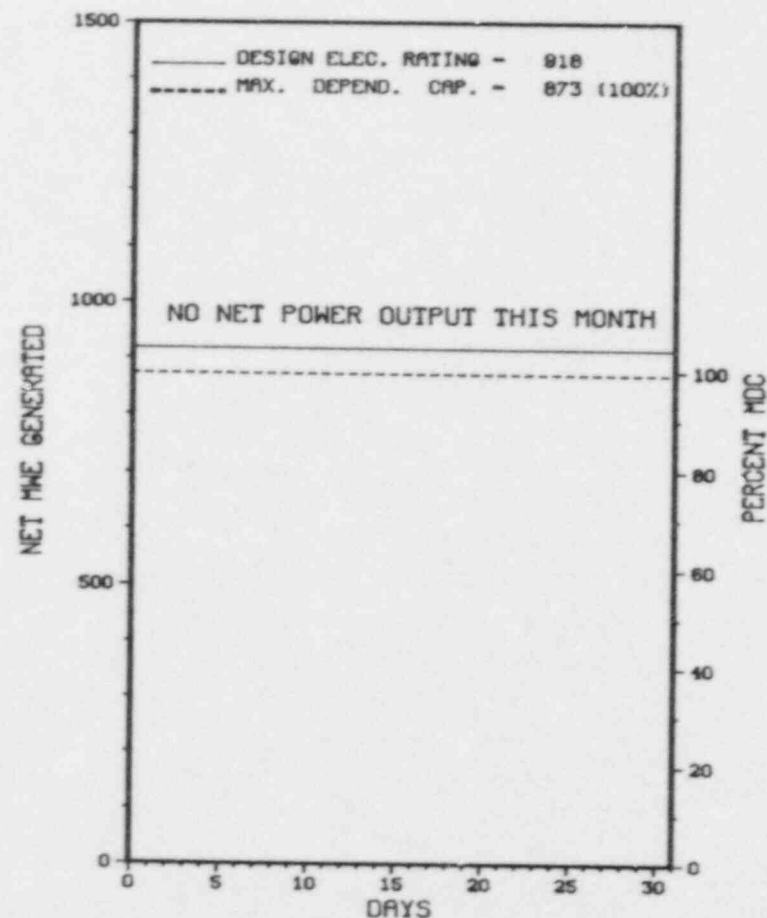
11. Reasons for Restrictions, If Any:
NRC LETTER DATED 12/26/85

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>111,385.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>52,565.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>10,647.7</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>50,363.8</u>
16. Unit Reserve Shtdwn 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>-10,337</u>	<u>-56,759</u>	<u>38,989,195</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>45.2</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>46.3</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>40.1</u>
23. Unit Cap Factor (DER Net)	<u>0</u>	<u>.0</u>	<u>38.1</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>43.6</u>
25. Forced Outage Hours	<u>744.0</u>	<u>8,760.0</u>	<u>38,905.5</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			
27. If Currently Shutdown Estimated Startup Date: <u>02/28/88</u>			

* RANCHO SECO 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RANCHO SECO 1



DECEMBER 1987

Report Period DEC 1987

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	744.0	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 1 REMAINED SHUTDOWN IN DECEMBER 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
	H-Other	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		

* RANCHO SECO 1 *

FACILITY DATA

Report Period DEC 1987

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.....J. ECKHARD
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

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

INSPECTION SUMMARY

+ INSPECTION ON NOVEMBER 2-6, 1987 (REPORT NO. 50-312/87-27) AREAS INSPECTED: UNANNOUNCED INSPECTION OF THE LICENSEE'S EMERGENCY PREPAREDNESS EXERCISE, ASSOCIATED CRITIQUE, AND FOLLOWUP ON OPEN ITEMS. DURING THIS INSPECTION, TWO INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON OCTOBER 1 - CONTINUING (REPORT NO. 50-312/87-31) SALP REPORT; INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON OCTOBER 19-23, 1987 (REPORT NO. 50-312/87-33) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF THE EMERGENCY PREPAREDNESS PROGRAM, INCLUDING METEOROLOGY AND FOLLOWUP ON OPEN ITEMS. DURING THIS INSPECTION, TWO INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON OCTOBER 26-30, 1987 (REPORT NO. 50-312/87-36) AREAS INSPECTED: ROUTINE, ANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED INSPECTOR ITEMS, AND LICENSEE EVENT REPORTS DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON OCTOBER 24 - DECEMBER 4, 1987 (REPORT NO. 50-312/87-37) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON NOVEMBER 16-19, 1987 (REPORT NO. 50-312/87-39) AREAS INSPECTED: 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 DECEMBER 7-11, 1987 (REPORT NO. 50-312/87-40) HEADQUARTERS' REPORT TO BE REPORTED BY HEADQUARTERS AT A LATER DATE.

+ INSPECTION ON DECEMBER 7-18, 1987 (REPORT NO. 50-312/87-41) HEADQUARTERS' REPORT CANCELLED.

+ INSPECTION ON NOVEMBER 30 - DECEMBER 4, 1987 (REPORT NO. 50-312/87-42) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 14-17, 1987 (REPORT NO. 50-312/87-43) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 5, 1987 - JANUARY 8, 1988 (REPORT NO. 50-312/87-44) INSPECTION CONTINUING; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 7-11, 1987 (REPORT NO. 50-312/87-45) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 14-18, 1987 (REPORT NO. 50-312/87-46) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 7-12, 1987 (REPORT NO. 50-312/87-47) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 21, 1987 - JANUARY 8, 1988 (REPORT NO. 50-312/87-48) INSPECTION CANCELLED.

+ INSPECTION ON DECEMBER 28, 1987 - JANUARY 30, 1988 (REPORT NO. 50-312/87-49) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON DECEMBER 21, 1987 - JANUARY 8, 1988 (REPORT NO. 50-312/88-01) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATIONS, TABLE 4.19-1, FOOTNOTE 5, "RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION," STATES IN PART: "DURING PERIODS OF KNOWN ACTIVITY IN THE REGENERANT TANK, PERFORM A SOURCE CHECK DAILY DURING RELEASES VIA THIS PATHWAY." CONTRARY TO THE ABOVE, DAILY SOURCE CHECKS WERE NOT PERFORMED WHEN EFFLUENT RADIATION MONITOR R15020 WAS OPERABLE, THE REGENERATE HOLDUP TANKS CONTAINED KNOWN ACTIVITY DURING THE PERIOD FROM AUGUST 1984 THROUGH FEBRUARY 20, 1987, AND RELEASES WERE MADE VIA THIS PATHWAY. TECHNICAL SPECIFICATIONS, SECTION 6.13, "HIGH RADIATION AREA," STATES IN PART: "EACH HIGH RADIATION AREA IN WHICH THE INTENSITY OF RADIATION IS GREATER THAN 100 MREM/HR BUT LESS THAN 1,000 MREM/HR SHALL BE BARRICADED AND CONSPICUOUSLY POSTED AS A HIGH RADIATION AREA AND ENTRANCE THERETO SHALL BE CONTROLLED BY ISSUANCE OF A RADIATION WORK PERMIT, AND ANY INDIVIDUAL OR GROUP OF INDIVIDUALS PERMITTED TO ENTER SUCH AREAS SHALL BE PROVIDED WITH A RADIATION MONITORING DEVICE WHICH CONTINUOUSLY INDICATES THE RADIATION DOSE RATE IN THE AREA." CONTRARY TO THE ABOVE, ON AUGUST 16, 1987, RADIOACTIVE MATERIAL STORED INSIDE THE REACTOR VESSEL HEAD STAND FIXTURE LOCATED ON THE 40' LEVEL OF THE REACTOR BUILDING, PRODUCING WHOLE BODY DOSE RATES UP TO 500 MREM/HR, WAS NOT POSTED AS A HIGH RADIATION AREA.

ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATIONS, SECTION 6.11, "RADIATION PROTECTION PROGRAM" STATES IN PART: "PROCEDURES FOR PERSONNEL RADIATION PROTECTION SHALL BE PREPARED CONSISTENT WITH THE REQUIREMENTS OF 10 CFR PART 20 AND SHALL BE APPROVED, MAINTAINED AND ADHERED TO FOR ALL OPERATIONS INVOLVING PERSONNEL RADIATION EXPOSURE." LICENSEE PROCEDURE AP-305-8A, "ROUTINE AND RADIATION WORK PERMIT SURVEYS," PARAGRAPH 6.2.4 STATES IN PART: "IN ADDITION TO OTHER SCHEDULED AND REQUIRED SURVEYS, DOCUMENT CHANGING CONDITIONS DUE TO PLANT PROCESSES AND ADDITION OR REMOVAL OF RADIOACTIVE MATERIALS (RADIOACTIVE WASTE STORAGE; LIQUID PROCESSING AREA; WASTE COMPACTOR AREA) OR OTHER EVOLUTIONS AS SOON AFTER THE CHANGE AS POSSIBLE. FOR SOME EVOLUTIONS, THIS MAY MEAN PERFORMING SEVERAL SURVEYS IN ONE DAY." CONTRARY TO THE ABOVE, DURING THE TIME BETWEEN DECEMBER 26, 1985, AND AUGUST 26, 1987, RADIOACTIVE MATERIALS LOCATED INSIDE THE REACTOR VESSEL HEAD STAND FIXTURE AREA WERE NOT SURVEYED AS NECESSARY TO DOCUMENT THE CHANGING CONDITIONS WHICH RESULTED IN A HIGH RADIATION AREA NOT BEING PROPERLY POSTED (SEE ITEM A ABOVE).

CONTRARY TO UNIT 2 TECHNICAL SPECIFICATION (TS) 6.8.1.A, WHICH STATES THAT WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED COVERING THE ACTIVITIES RECOMMENDED IN APPENDIX "A" OF REGULATORY GUIDE 1.33, REVISION 2, FEBRUARY 1978, ON OCTOBER 24, 1987, PROCEDURE, 2-M-0036, REACTOR-VESSEL MAINTENANCE - SEQUENCE OF OPERATIONS, WAS NOT PROPERLY IMPLEMENTED IN THAT WHILE PERFORMING A LIFT OF THE UNIT 2 IN-CORE INSTRUMENTATION (ICI) PLATE, UTILIZING THE POLAR CRANE, A LOAD CELL WAS NOT UTILIZED AS REQUIRED BY THE PROCEDURE. THIS RESULTED IN EXCESSIVE LIFTING FORCE BEING APPLIED BY THE CRANE, RESULTING IN DEFORMATION OF THE ICI PLATE. CONTRARY TO UNIT 1 TECHNICAL SPECIFICATION (TS) 6.8.1.A, WHICH STATES THAT WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED COVERING THE ACTIVITIES RECOMMENDED IN APPENDIX "A" OF REGULATORY GUIDE 1.33, REVISION 2, FEBRUARY 1978, ON OCTOBER 28, 1987, PROCEDURE 1-0700020, CONDENSATE AND FEEDWATER, WAS NOT PROPERLY IMPLEMENTED IN THAT WHILE ELECTRICALLY REALIGNING THE UNIT 1 OPERATING CONDENSATE PUMPS THE TURBINE OPERATOR, AFTER REMOVING THE 1B PUMP FROM THE ELECTRICAL LINEUP, INADVERTENTLY STOPPED THE ONLY REMAINING OPERATING CONDENSATE PUMP WHICH RESULTED IN A LOSS OF FEEDWATER AND SUBSEQUENT UNIT 1 REACTOR TRIP FROM 20% POWER. ADDITIONALLY, THE PROCEDURE WAS NOT PROPERLY ESTABLISHED IN THAT, AFTER COMPLETING THE ELECTRICAL REALIGNMENT, THE PROCEDURE DID NOT SPECIFY HOW TO DISENGAGE THE PROTECTIVE INTERLOCK WHICH IS ACTIVATED DURING THE REALIGNMENT EVOLUTION. THIS CONTRIBUTED TO THE CONFUSION WHICH RESULTED IN THE INADVERTENT TRIP OF THE CONDENSATE PUMP AND SUBSEQUENT REACTOR TRIP. CONTRARY TO TS 6.11; HEALTH PHYSICS PROCEDURE, HP-70, REVISION 6, PERSONNEL CONTAMINATION MONITORING AND DECONTAMINATION DATED SEPTEMBER 25, 1987; AND HEALTH PHYSICS PROCEDURE, HP-50, REVISION 7, PROTECTIVE CLOTHING REQUIREMENTS, DATED JUNE 18, 1987, THE LICENSEE FAILED TO ADHERE TO RADIATION CONTROL PROCEDURES IN THAT: (1) ON OCTOBER 28, 1987, FIVE OUT OF SIXTEEN INDIVIDUALS OBSERVED EXITING THE UNIT 2 REACTOR CONTAINMENT BUILDING (RCB) CONTAMINATED AREA AT THE CRAFT RCB ACCESS POINT LOCATED NEAR THE EQUIPMENT HATCH DID NOT PERFORM AN ADEQUATE WHOLE BODY FRISK, AND (2) ON OCTOBER 28, 1987, NUMEROUS PEOPLE WORKING INSIDE THE CONTAMINATED AREA IN UNIT 2 RCB WERE NOTED WEARING THEIR PROTECTIVE CLOTHING HOODS OR CAPS WITH THE FLAPS FASTENED BEHIND THEIR HEADS.
(8702 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INTEGRATED CONTROL SYSTEM UNDER REVIEW FOLLOWING EXCESSIVE COOLDOWN RATE PRODUCED WHEN SYSTEM LOST DC POWER AT 100% REACTOR POWER.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

RESTART ACTION PLAN IMPLEMENTATION IS BEING REVIEWED BY NRR AND REGION V PRIOR TO RETURN TO OPERATION.

ENFORCEMENT CONFERENCE WAS HELD ON MAY 16, 1986, ON VIOLATIONS RELATED TO THE DECEMBER 26, 1985, EVENT AND FOLLOWUP ACTIVITIES.

Report Period DEC 1987

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

* RANCHO SECO 1 *

OTHER ITEMS

NRC SALP BOARD MEETING WAS HELD ON AUGUST 12, 1986.

PLANT STATUS:

PLANT REMAINS IN COLD SHUTDOWN FOLLOWING PLANT TRIP FROM 100% DUE TO LOSS OF ICS DC POWER ON DECEMBER 26, 1985.

LAST IE SITE INSPECTION DATE: 12/28/87 - 01/30/88+

INSPECTION REPORT NO: 50-312/87-49+

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
87-41-L0	10-26-87	11-24-87	POTENTIAL NSCW PUMP TRIP DUE TO DESIGN DEF

=====

1. Docket: 50-458 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>18,216.0</u>
13. Hours Reactor Critical	<u>215.1</u>	<u>5,995.1</u>	<u>11,714.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>139.0</u>	<u>5,837.7</u>	<u>10,531.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>214,520</u>	<u>15,469,328</u>	<u>25,469,884</u>
18. Gross Elec Ener (MWH)	<u>63,527</u>	<u>5,301,416</u>	<u>8,620,874</u>
19. Net Elec Ener (MWH)	<u>58,070</u>	<u>4,964,440</u>	<u>8,025,205</u>
20. Unit Service Factor	<u>18.7</u>	<u>66.6</u>	<u>57.8</u>
21. Unit Avail Factor	<u>18.7</u>	<u>66.6</u>	<u>57.8</u>
22. Unit Cap Factor (MDC Net)	<u>8.3</u>	<u>60.5</u>	<u>47.1</u>
23. Unit Cap Factor (DER Net)	<u>8.3</u>	<u>60.5</u>	<u>47.1</u>
24. Unit Forced Outage Rate	<u>54.1</u>	<u>5.7</u>	<u>12.9</u>
25. Forced Outage Hours	<u>163.7</u>	<u>352.4</u>	<u>1,560.9</u>

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

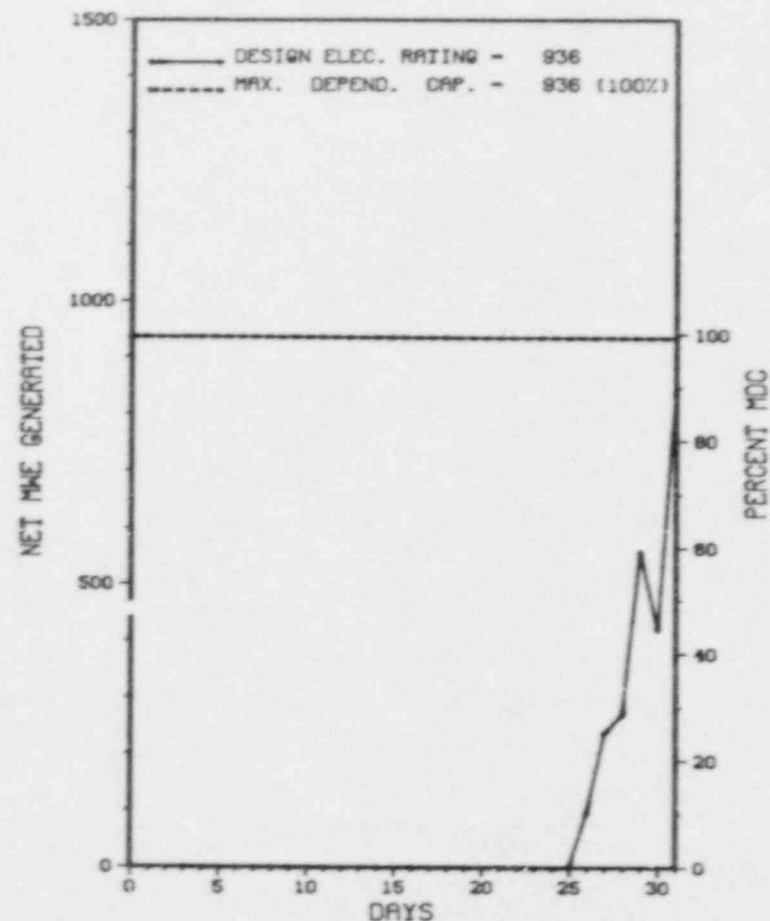
NONE

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

* RIVER BEND 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RIVER BEND 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * RIVER BEND 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
7-09	09/14/87	S	441.3	C	4			PLANNED AS PART OF FIRST REFUELING OUTAGE.
	12/19/87	F	44.0	H	1	LER-87-032		MANUAL SCRAM DUE TO CRD VALE LINE UP BECAUSE OF DEFICIENT PROCEDURE. LER-87-032
	12/21/87	F	33.2	A	3	LER-87-034		AUTOMATIC SCRAM FROM MANUAL HALF SCRAM DUE TO SPURIOUS IRM A SPIKE. LER-87-034
	12/22/87	F	86.5	A	1			MANUAL SCRAM TO CORRECT WATER LEVEL INSTRUMENTATION ON RANGE B.

 * SUMMARY *

 RIVER BEND 1 COMPLETED SCHEDULED REFUELING OUTAGE IN DECEMBER. SUBSEQUENTLY INCURRED 3 FORCED OUTAGES AS DISCUSSED ABOVE DURING RETURN 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)

* RIVER BEND 1 *

F A C I L I T Y D A T A

Report Period DEC 1987

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...RPF-47, NOVEMBER 20, 1985
PUBLIC DOCUMENT ROOM.....GOVERNMENT DOCUMENTS DEPARTMENT
TROY H. MIDDLETON LIBRARY
LOUISIANA STATE UNIVERSITY/
BATON ROUGE, LOUISIANA 70803

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 DEC 1987

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

* RIVER BEND 1 *

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
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INFO. NOT SUPPLIED BY REGION

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1. Docket: 50-261 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 144.0

3. Utility Contact: V.E. FRAZIER (803) 383-4524 X 1220

4. Licensed Thermal Power (MWt): 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>744.0</u>	<u>8,760.0</u>	<u>147,510.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,354.3</u>	<u>105,529.2</u>
14. R. Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>3,159.6</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,226.3</u>	<u>103,024.3</u>
16. Unit Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>23.2</u>
17. Gross Therm Ener (MWH)	<u>1,693,746</u>	<u>13,470,607</u>	<u>208,152,561</u>
18. Gross Elec Ener (MWH)	<u>571,395</u>	<u>4,468,839</u>	<u>67,383,337</u>
19. Net Elec Ener (MWH)	<u>545,652</u>	<u>4,230,329</u>	<u>63,677,929</u>
20. Unit Service Factor	<u>100.0</u>	<u>71.1</u>	<u>69.8</u>
21. Unit Avail Factor	<u>100.0</u>	<u>71.1</u>	<u>69.9</u>
22. Unit Cap Factor (MDC Net)	<u>110.5</u>	<u>72.6</u>	<u>64.9</u>
23. Unit Cap Factor (DER Net)	<u>104.8</u>	<u>69.0</u>	<u>61.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>8.9</u>	<u>13.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>612.0</u>	<u>10,202.7</u>

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

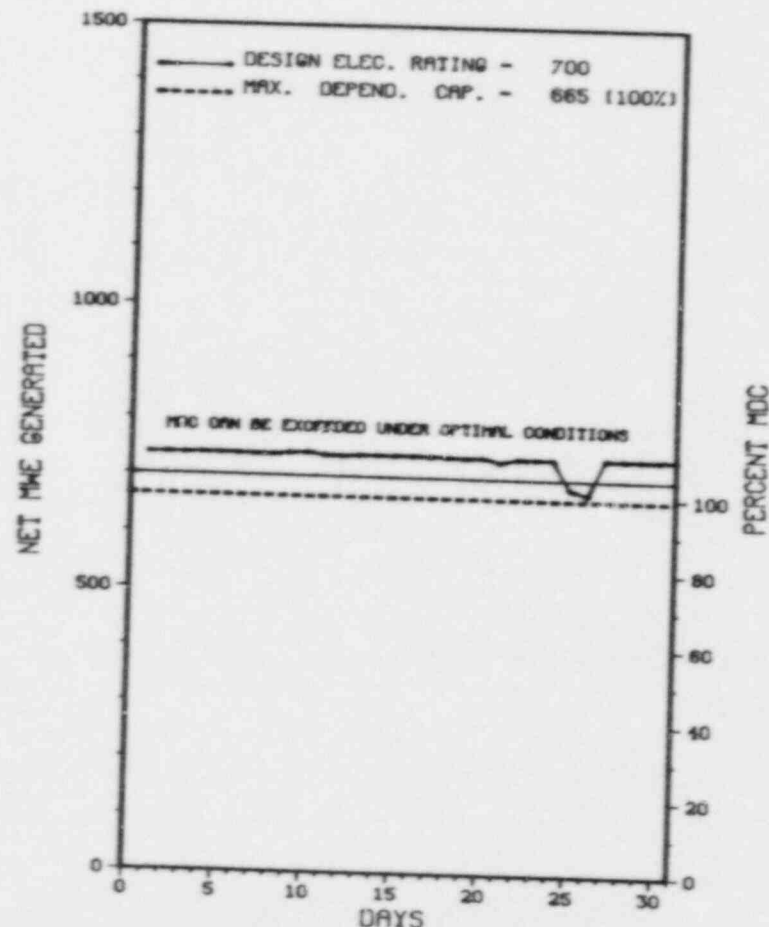
NONE

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

* ROBINSON 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ROBINSON 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* ROBINSON 2 *

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

* SUMMARY *

ROBINSON 2 OPERATED ROUTINELY IN DECEMBER 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)

* ROBINSON 2 *

FACILITY DATA

Report Period DEC 1987

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, 1976
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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 30 - DECEMBER 4 (87-35): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF VERIFICATION OF COMPLIANCE WITH ORDER FOR MODIFICATION OF LICENSE: PRIMARY COOLANT SYSTEM PRESSURE ISOLATION (EVENT V) VALVES (TI-2515/84), SERVICE WATER PIPING DEGRADATION (927068), INSERVICE TESTING OF PUMPS AND VALVES (73756), INSERVICE INSPECTION, IE BULLETINS, IE NOTICES, AND INSPECTOR FOLLOWUP ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 16-20 (87-36): THIS UNANNOUNCED PHYSICAL SECURITY INSPECTION CONSISTED OF A REVIEW AND INSPECTION OF: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS - SECURITY PROGRAMS; SECURITY ORGANIZATION; PHYSICAL BARRIERS - VITAL AREAS; LIGHTING; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL; ACCESS CONTROL - PACKAGES; ACCESS CONTROL - VEHICLES; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; COMMUNICATIONS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; AND SAFEGUARDS CONTINGENCY PLAN - IMPLEMENTATION REVIEW. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS WITHIN THE 15 AREAS INSPECTED.

ENFORCEMENT SUMMARY

NONE

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: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-261/87-36 +

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
87-026	10/20/87	11/29/87	POTENTIAL FOR RESIDUAL HEAT REMOVAL PUMP FAILURE DUE TO AN INADEQUACY IN DESIGN
87-027	11/04/87	12/03/87	INOPERABILITY OF REDUNDANT EQUIPMENT DUE TO INADVERTENT LOSS OF MOTOR CONTROL CENTER 6
87-029	11/18/87	12/18/87	SERVICE WATER FLANGE LEAK IN CONTAINMENT; MINIMUM COMPONENT REDUNDANCY VIOLATION
87-030	12/02/87	12/17/87	NON-REDUNDANT POWER SUPPLY TO REDUNDANT VITAL EQUIPMENT DUE TO ORIGINAL SYSTEM DESIGN

=====

1. Docket: 50-272 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: BRYAN W. GORMAN (609) 339-5400

4. Licensed Thermal Power (MWh): 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>744.0</u>	<u>8,760.0</u>	<u>92,089.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>6,412.5</u>	<u>57,695.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,088.4</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>6,363.2</u>	<u>55,791.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>19,612,961</u>	<u>172,471,213</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>6,496,490</u>	<u>57,192,288</u>
19. Net Elec Ener (MWH)	<u>-3,093</u>	<u>6,211,441</u>	<u>54,396,705</u>
20. Unit Service Factor	<u>.0</u>	<u>72.6</u>	<u>60.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>72.6</u>	<u>60.6</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>64.1</u>	<u>53.4</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>63.6</u>	<u>53.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.5</u>	<u>25.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>233.8</u>	<u>19,459.8</u>

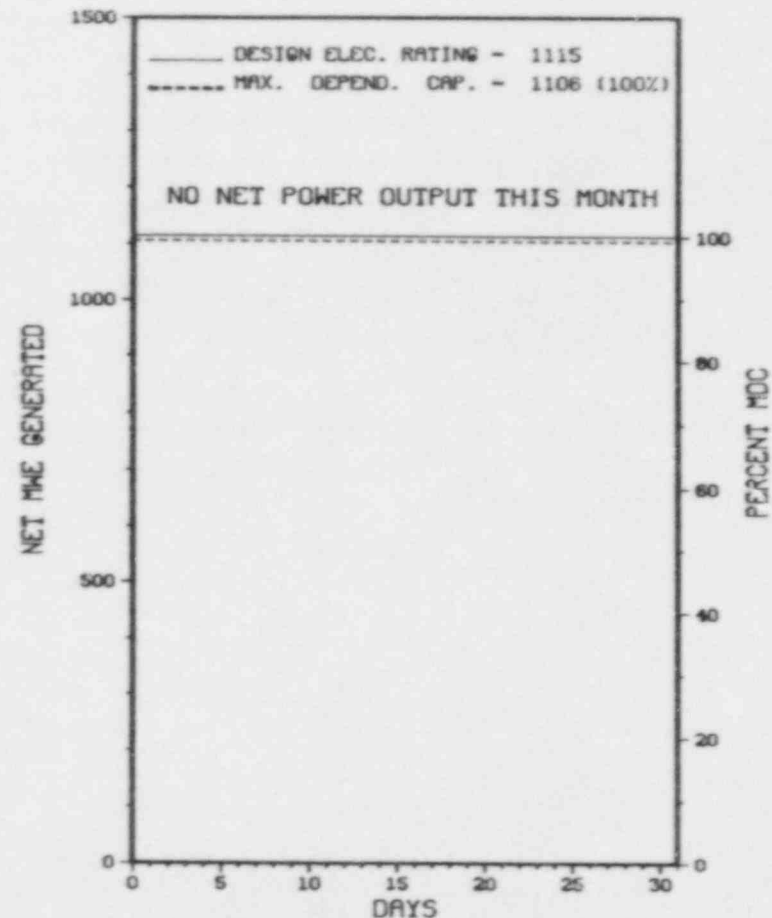
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 01/12/88

X SALEM 1 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SALEM 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* SALEM 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
0280	10/02/87	S	552.0	C	4		ZZ	ZZZZZZ	REFUELING OUTAGE
0356	12/24/87	S	192.0	B	9		WA	ZZZZZZ	SERVICE WATER REPAIR

* SUMMARY *

SALEM 1 COMPLETED SCHEDULED REFUELING OUTAGE IN DECEMBER. REMAINED SHUTDOWN FOR SERVICE WATER REPAIR.

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)

* SALEM 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

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.

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

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


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*****
*          SALEM 2          *
*****
AVERAGE DAILY POWER LEVEL (Mile) PLOT
```

SALEM 2

NONE

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

11. Reasons for Restrictions, If Any: _____

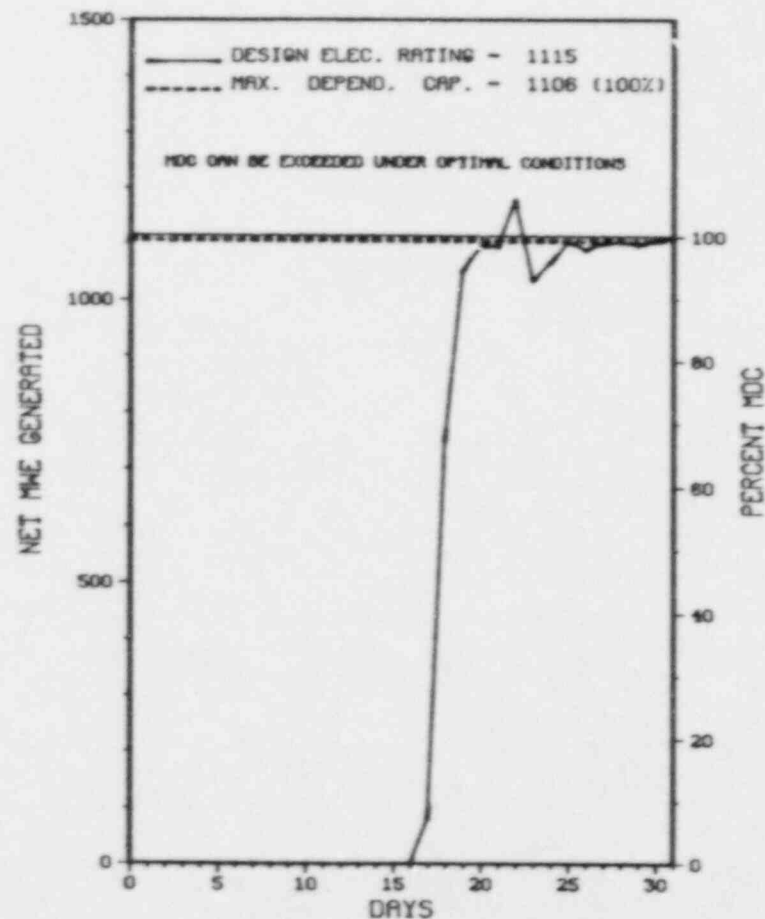
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	8,760.0	54,505.0
13. Hours Reactor Critical	355.2	6,423.0	32,378.1
14. Rx Reserve Shtdwn Hrs	.0	.0	3,533.6
15. Hrs Generator On-Line	346.6	6,343.4	31,297.1
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,135,051	19,646,340	96,765,729
18. Gross Elec Ener (MWH)	377,410	6,452,330	31,629,470
19. Net Elec Ener (MWH)	355,705	6,172,052	30,019,468
20. Unit Service Factor	46.6	72.4	57.4
21. Unit Avail Factor	46.6	72.4	57.4
22. Unit Cap Factor (MDC Net)	43.2	63.7	49.8
23. Unit Cap Factor (DER Net)	42.9	63.2	49.4
24. Unit Forced Outage Rate	.0	11.8	33.1
25. Forced Outage Hours	.0	846.8	15,517.9

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

NONE

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



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SALEM 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
0197	10/24/87	S	397.4	B	4		ED	CKTBRK	CIRCUIT BREAKER VERIFICATION

 * SUMMARY *

 SALEM 2 COMPLETED SCHEDULED MAINTENANCE OUTAGE IN DECEMBER AND RETURNED TO POWER ON DEC. 17.

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)

* SALEM 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

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.

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                SALEM 2                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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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
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NO INPUT PROVIDED.

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SAN ONOFRE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
116	12/20/87	S	0.0	B	5			POWER REDUCTION OF GREATER THAN 20% TO PERFORM HEAT TREATING OF THE CIRCULATING WATER INTAKE STRUCTURE, CLEANING OF CONDENSER WATER BOXES AND TESTING OF TURBINE STOP VALVES.

 * SUMMARY *

 SAN ONOFRE 1 OPERATED DURING DECEMBER WITH A SELF IMPOSED RESTRICTION TO CONTROL S.G. TUBE CORROSION AND FURTHER INCURRED 1 POWER REDUCTION AS DISCUSSED ABOVE.

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)

Report Period DEC 1987

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

* SALEM 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.

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: 50-206 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: E. R. SIACOR (714) 368-6223

4. Licensed Thermal Power (MWt): 1347

5. Nameplate Rating (Gross MWe): 500 X 0.9 = 450

6. Design Electrical Rating (Net MWe): 436

7. Maximum Dependable Capacity (Gross MWe): 456

8. Maximum Dependable Capacity (Net MWe): 436

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

NONE

10. Power Level To Which Restricted, If Any (Net MWe): 390

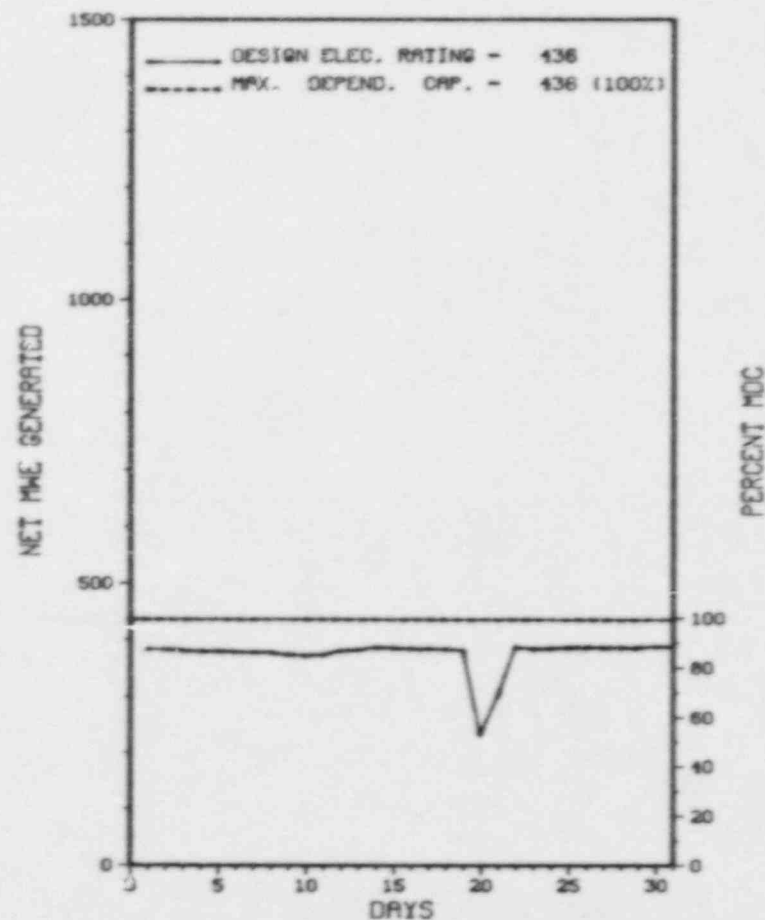
11. Reasons for Restrictions, If Any: SELF-IMPOSED TO CONTROL SG TUBE CORROSION.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>180,104.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,382.9</u>	<u>106,471.4</u>
14. Rx Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,323.4</u>	<u>102,430.4</u>
16. Unit Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>899,217</u>	<u>8,823,057</u>	<u>129,129,860</u>
18. Gross Elec Ener (MWH)	<u>295,800</u>	<u>2,884,532</u>	<u>43,677,726</u>
19. Net Elec Ener (MWH)	<u>279,082</u>	<u>2,708,001</u>	<u>41,243,255</u>
20. Unit Service Factor	<u>100.0</u>	<u>83.6</u>	<u>56.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>83.6</u>	<u>56.9</u>
22. Unit Cap Factor (MDC Net)	<u>86.0</u>	<u>70.9</u>	<u>52.5</u>
23. Unit Cap Factor (DER Net)	<u>86.0</u>	<u>70.9</u>	<u>52.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.9</u>	<u>52.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>141.8</u>	<u>13,140.4</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>MID-CYCLE OUTAGE - FEBRUARY 14, 1988 - 45 DAY DURATION.</u>		
27. If Currently Shutdown Estimated Startup Date:	<u>N/A</u>		

X SAN ONOFRE 1 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SAN ONOFRE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
116	12/20/87	S	0.0	B	5				POWER REDUCTION OF GREATER THAN 20% TO PERFORM HEAT TREATING OF THE CIRCULATING WATER INTAKE STRUCTURE, CLEANING OF CONDENSER WATER BOXES AND TESTING OF TURBINE STOP VALVES.

 * SUMMARY *

 SAN ONOFRE 1 OPERATED DURING DECEMBER WITH A SELF IMPOSED RESTRICTION TO CONTROL S.G. TUBE CORROSION AND FURTHER INCURRED 1 POWER REDUCTION AS DISCUSSED ABOVE.

Type	Reason	Method	System & Component	
I-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)

* SAN ONOFRE 1 *

FACILITY DATA

Report Period DEC 1987

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...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 & CONTRACTOR INFORMATION

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.....A. DANGELO
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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON JUNE 6, 1986 - NOVEMBER 17, 1987 (REPORT NO. 50-206/87-26) YEARLY SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON OCTOBER 4-11, 1987 (REPORT NO. 50-206/87-27) 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, REVIEW OF LICENSEE EVENT REPORTS, 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 NOVEMBER 2-6, 1987 (REPORT NO. 50-206/87-28) AREAS INSPECTED: ROUTINE PROJECT INSPECTION IN THE AREAS OF TRAINING PROGRAM IMPLEMENTATION, NUCLEAR SAFETY CONCERN PROGRAM IMPLEMENTATION, AND FOLLOWUP OF LICENSEE OPEN ITEMS REVIEW. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 22, 1987 - JANUARY 9, 1988 (REPORT NO. 50-206/87-29) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* SAN ONOFRE 1 *

INSPECTION SUMMARY

- + INSPECTION ON DECEMBER 14-22, 1987 (REPORT NO. 50-206/87-30) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + OPERATOR LICENSING EXAMS ON DECEMBER 14, 1987 (REPORT NO. 50-206/OL-87-03) ON THE ABOVE DATE, A WRITTEN EXAMINATION WAS ADMINISTERED TO A REACTOR OPERATOR CANDIDATE. HE PASSED THE EXAMINATION; THE ORAL PORTION WAS WAIVED DUE TO A PRIOR PASSING EVALUATION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE PLANT CONTINUED FULL POWER OPERATION DURING DECEMBER, 1987. THE LICENSEE CURRENTLY PLANS TO SHUT DOWN THE UNIT FOR A MID-CYCLE OUTAGE IN LATE FEBRUARY, 1988.

LAST IE SITE INSPECTION DATE: 11/22/87 - 01/09/88+

INSPECTION REPORT NO: 50-206/87-29

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-14-L0	06-26-87	11-25-87	WEEKLY SURVEILLANCE NOT PERFORMED DUE TO PERSONNEL ERROR
87-15-L0	10-07-87	11-06-87	FAILURE TO MEET SINGLE FAILURE CRITERIA

=====

1. Docket: 50-361 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: E. R. SIACOR (714) 368-6223

4. Licensed Thermal Power (MWh): 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>744.0</u>	<u>8,760.0</u>	<u>38,569.0</u>
13. Hours Reactor Critical	<u>521.9</u>	<u>6,192.5</u>	<u>25,792.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>430.2</u>	<u>6,068.3</u>	<u>25,185.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,057,352</u>	<u>19,339,699</u>	<u>80,966,423</u>
18. Gross Elec Ener (MWH)	<u>343,453</u>	<u>6,570,664</u>	<u>27,262,574</u>
19. Net Elec Ener (MWH)	<u>311,568</u>	<u>6,230,341</u>	<u>25,788,880</u>
20. Unit Service Factor	<u>57.8</u>	<u>69.3</u>	<u>65.3</u>
21. Unit Avail Factor	<u>57.8</u>	<u>69.3</u>	<u>65.3</u>
22. Unit Cap Factor (MDC Net)	<u>39.1</u>	<u>66.5</u>	<u>62.5</u>
23. Unit Cap Factor (DER Net)	<u>39.1</u>	<u>66.5</u>	<u>62.5</u>
24. Unit Forced Outage Rate	<u>7.7</u>	<u>1.9</u>	<u>4.5</u>
25. Forced Outage Hours	<u>35.8</u>	<u>119.7</u>	<u>1,183.5</u>

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

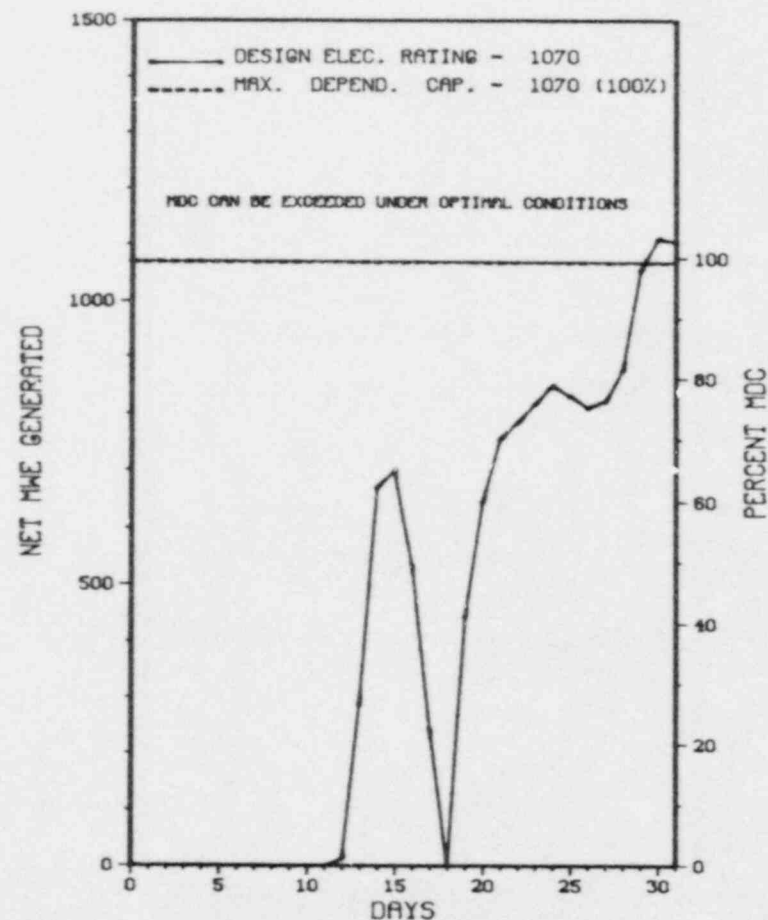
NONE

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

 * SAN ONOFRE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SAN ONOFRE 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
37	08/29/87	S	278.0	C	4				CYCLE 4 REFUELING OUTAGE.
38	12/16/87	S	0.0	B	5				POWER REDUCTION TO SUPPORT POWER ASCENSION TESTING FOR SHAPE ANNEALING MATRIX.
39	12/17/87	F	35.8	A	2	87-031	SJ	IS	REACTOR WAS MANUALLY TRIPPED AFTER BOTH MAIN FEEDWATER PUMPS INDICATED TO HAVE TRIPPED DUE TO CLOSURE OF MAIN FEEDWATER ISOLATION VALVE 2HV-4048. CLOSURE OF 2HV-4048 WAS CAUSED BY LOSS OF POWER TO ITS ASSOCIATED SOLENOID VALVE DUE TO CORROSION OF THE TERMINAL CONNECTORS. MOISTURE INTRUSION INTO THE TERMINAL BOX DUE TO INADEQUATE TIGHTENING OF THE CONDUIT CONNECTIONS RESULTED IN THE OBSERVED CORROSION. AS CORRECTIVE ACTION, THE TERMINAL CONNECTIONS HAVE BEEN REPLACED AND THE CONDUIT CONNECTIONS HAVE BEEN PROPERLY TIGHTENED AND SEALED.

 * SUMMARY *

 SAN ONOFRE 2 INCURRED 2 OUTAGES IN DECEMBER AND ONE POWER REDUCTION: 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	License Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

* SAN ONOFRE 2 *

FACILITY DATA

Report Period DEC 1987

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 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.....50-361
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 JUNE 1, 1986 - NOVEMBER 17, 1987 (REPORT NO. 50-361/87-26) YEARLY SYSTEMATIC ASSESMENT OF LICENSEE PERFORMANCE; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON OCTOBER 4 - NOVEMBER 24, 1987 (REPORT NO. 50-361/87-28) AREAS INSPECTED: ROUTINE RESIDENT INSPECTION OF THE 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, REVIEW OF LICENSEE EVENT REPORTS, 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 OCTOBER 26 - NOVEMBER 13, 1987 (REPORT NO. 50-361/87-29) AREAS INSPECTED: A ROUTINE, ANNOUNCED INSPECTION OF UNIT 2 ACTIVITIES RELATING TO A CONTAINMENT INTEGRATED LEAK RATE TEST (ILRT) AND FOLLOWUP ON AN IE INFORMATION NOTICE. THE INSPECTION INCLUDED REVIEW OF PROCEDURES AND RECORDS, INTERVIEWS WITH PERSONNEL, WITNESSING PORTIONS OF THE ILRT, INSPECTION OF THE CONTAINMENT BUILDING, AND ASSOCIATED PENETRATIONS AND PIPING SYSTEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 2-27, 1987 (REPORT NO. 50-361/87-30) AREAS INSPECTED: ROUTINE PROJECT INSPECTION IN THE AREAS OF

Report Period DEC 1987

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

* SAN ONOFRE 2 *

INSPECTION SUMMARY

TRAINING PROGRAM IMPLEMENTATION, NUCLEAR SAFETY CONCERN PROGRAM IMPLEMENTATION, AND FOLLOWUP OF LICENSEE OPEN ITEMS REVIEW.
DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

- + INSPECTION ON NOVEMBER 22, 1987 - JANUARY 9, 1988 (REPORT NO. 50-361/87-31) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.
- + INSPECTION ON DECEMBER 14-22, 1987 (REPORT NO. 50-361/87-32) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON DECEMBER 7-11, 1987 (REPORT NO. 50-361/87-33) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON DECEMBER 15, 1987 (REPORT NO. 50-361/87-34) 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 UNIT STARTED UP FROM A REFUELING OUTAGE IN DECEMBER 1987. THE UNIT HAS OPERATED CONTINUOUSLY SINCE THAT TIME.

LAST IE SITE INSPECTION DATE: 11/22/87 - 01/09/88+

INSPECTION REPORT NO: 50-361/87-31+

Report Period DEC 1987

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

* S A N O N O F R E 2 *

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-13-L0	09-04-87	10-05-87	HIGH AIRBOURNE IN FHB DUE TO PRESSURIZER VENTING
87-21-L0	10-26-87	11-25-87	FHIS SPURIOUS ACTUATION
87-22-L0	10-27-87	11-25-87	FHIS SFURIOUS ACTUATION
87-23-L0	11-07-87	12-04-87	TRAIN B TGIS ACTUATION
87-24-L0	11-09-87	12-09-87	FHIS AND CPIS - SPURIOUS - DURING TRANSFER OF VITAL BUS

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1. Docket: 50-362 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>32,880.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,135.2</u>	<u>23,722.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,987.8</u>	<u>22,873.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,516,114</u>	<u>23,197,605</u>	<u>69,455,761</u>
18. Gross Elec Ener (MWH)	<u>867,473</u>	<u>7,915,665</u>	<u>23,477,894</u>
19. Net Elec Ener (MWH)	<u>842,321</u>	<u>7,519,728</u>	<u>22,087,666</u>
20. Unit Service Factor	<u>100.0</u>	<u>79.8</u>	<u>69.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>79.8</u>	<u>69.6</u>
22. Unit Cap Factor (MDC Net)	<u>104.8</u>	<u>79.5</u>	<u>62.2</u>
23. Unit Cap Factor (DER Net)	<u>104.8</u>	<u>79.5</u>	<u>62.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.9</u>	<u>9.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>132.6</u>	<u>2,408.8</u>

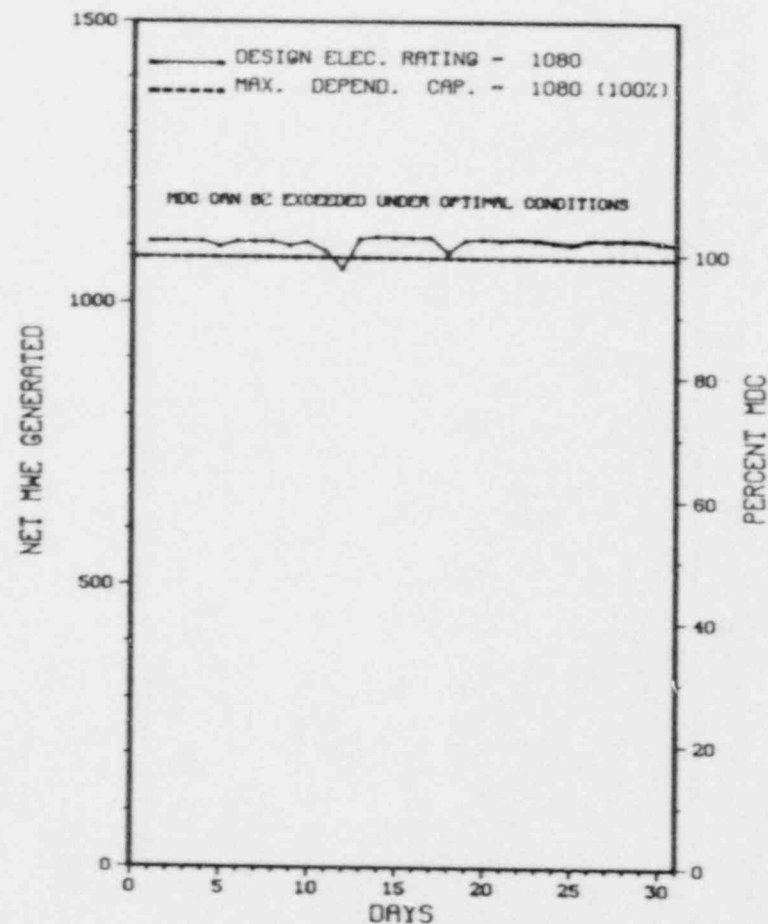
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - APRIL 23, 1988 - 80 DAY DURATION

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

* SAN ONOFRE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* SAN ONOFRE 3 *

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

* SUMMARY *

SAN ONOFRE 3 OPERATED ROUTINELY IN DECEMBER 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)

* SAN ONOFRE 3 *

FACILITY DATA

Report Period DEC 1987

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 STATUS

INSPECTION SUMMARY

+ INSPECTION ON JUNE 1, 1986 - NOVEMBER 17, 1988 (REPORT NO. 50-362/87-28) YEARLY SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON OCTOBER 4 - NOVEMBER 24, 1987 (REPORT NO. 50-362/87-29) 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, REVIEW OF LICENSEE EVENT REPORTS, AND FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS. DURING THIS INSPECTION, VARIOUS PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 2-27, 1987 (REPORT NO. 50-362/87-30) AREAS INSPECTED: ROUTINE PROJECT INSPECTION IN THE AREAS OF TRAINING PROGRAM IMPLEMENTATION, NUCLEAR SAFETY CONCERN PROGRAM IMPLEMENTATION, AND FOLLOWUP OF LICENSEE OPEN ITEMS REVIEW. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 22, 1987 - JANUARY 9, 1988 (REPORT NO. 50-362/87-31) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

Report Period DEC 1987

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

* SAN ONOFRE 3 *

INSPECTION SUMMARY

- + INSPECTION ON DECEMBER 14-22, 1987 (REPORT NO. 50-362/87-32) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON DECEMBER 7-11, 1987 (REPORT NO. 50-362/87-33) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON DECEMBER 15, 1987 (REPORT NO. 50-362/87-34) 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 UNIT CONTINUED OPERATION THROUGHOUT DECEMBER.

LAST IE SITE INSPECTION DATE: 11/22/87 - 01/09/88+

INSPECTION REPORT NO: 50-362/87-31

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
87-17-L0	10-11-87	11-10-87	TRIP DUE TO LOW VACUUM DURING SEAWEEED INFLUX

1. Docket: 50-327 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: DAVID DUPREE (615) 870-6722

4. Licensed Thermal Power (MWh): 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>744.0</u>	<u>8,760.0</u>	<u>57,001.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>24,444.7</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>23,871.0</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>77,060,921</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>25,978,386</u>
19. Net Elec Ener (MWH)	<u>-4,672</u>	<u>-48,236</u>	<u>24,854,323</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>41.9</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>41.9</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>38.0</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>38.0</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>50.0</u>
25. Forced Outage Hours	<u>744.0</u>	<u>8,760.0</u>	<u>23,891.1</u>

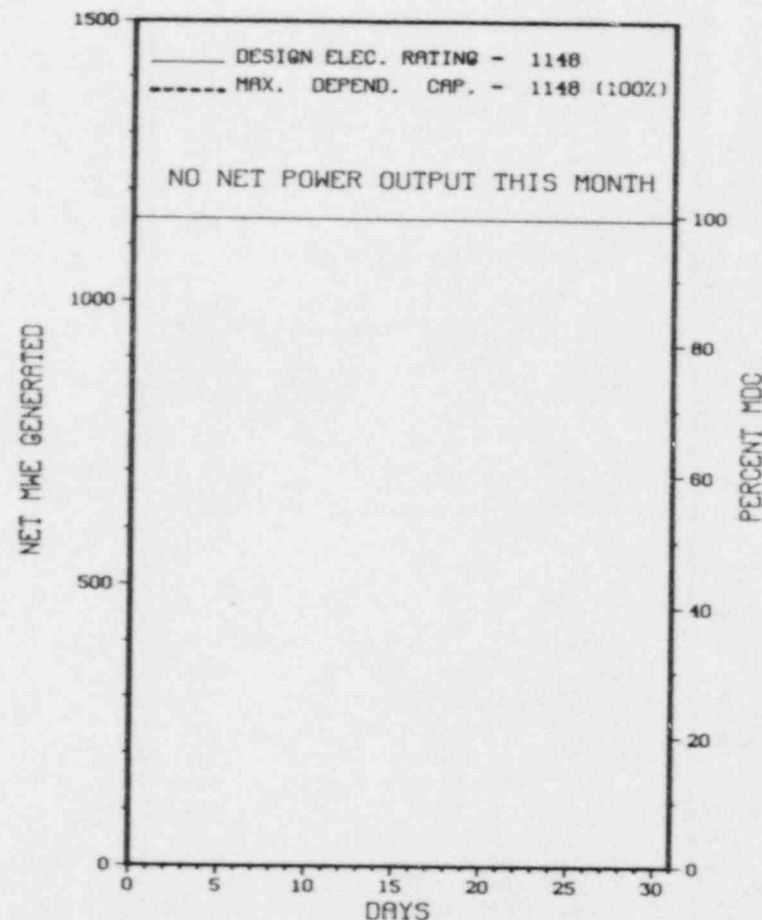
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

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

 * SEQUOYAH 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SEQUOYAH 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SEQUOYAH 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	12/20/85	F	744.0	F	4			DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

 * SUMMARY *

SEQUOYAH 1 REMAINED SHUTDOWN IN DECEMBER 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-6161)

* SEQUOYAH 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 19-30 (87-66): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF SYSTEM ALIGNMENT VERIFICATION FOR UNIT 2 HEATUP. THE INSPECTION CONSISTED OF BOTH OBSERVATION OF THE LICENSEE'S ACCOMPLISHMENT OF THE SYSTEM OPERATING INSTRUCTION (SOI) CHECKLISTS AND INDEPENDENT VERIFICATION OF SYSTEM ALIGNMENT. INDEPENDENT VERIFICATION WAS ACCOMPLISHED BY COMPARING THE CONFIGURATION IN THE PLANT TO THE SOI CHECKLISTS AND THE INDEPENDENT VERIFICATION OF SYSTEM ALIGNMENT. INDEPENDENT VERIFICATION WAS ACCOMPLISHED BY COMPARING THE CONFIGURATION IN THE PLANT TO THE SOI CHECKLISTS AND THE AS-BUILT DRAWINGS. THE TEAM DETERMINED THAT THE LICENSEE'S CONFIGURATION CONTROL PROGRAM (COMPLETED SOI CHECKLISTS COMBINED WITH CONFIGURATION CONTROL LOG ENTRIES) DID NOT ACCURATELY REFLECT THE STATUS OR CONFIGURATION OF ALL EQUIPMENT REQUIRED FOR MODE CHANGE. THIS DETERMINATION RESULTED FROM 1) THE IDENTIFICATION OF EQUIPMENT INSTALLED IN THE PLANT THAT WAS NOT INCLUDED ON SOI CHECKLISTS, 2) THE IDENTIFICATION OF EQUIPMENT WHOSE STATUS WAS DETERMINED TO BE OTHER THAN THAT DOCUMENTED IN THE COMPLETED SOI CHECKLIST OR IN THE CONFIGURATION LOG, AND 3) THE IDENTIFICATION THAT THE INSTRUCTION SPECIFYING HOW TO ACCOMPLISH SOI CHECKLISTS DID NOT REQUIRE CONFIGURATION CONTROL MEASURES TO START WHEN THE CHECKLISTS WERE INITIATED. TWO VIOLATIONS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* SEQUOYAH 1 *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ENVIRONMENTAL QUALIFICATION OF EQUIPMENT.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

MODE 5.

LAST IE SITE INSPECTION DATE: OCTOBER 19-30, 1987 +

INSPECTION REPORT NO: 50-327/87-66 +

REPORTS FROM LICENSEE

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-045	10/09/87	11/06/87	INADEQUATE DESIGN CONTROL PROCESS RESULTED IN THE LACK OF FUSE COORD POTENTIALLY RENDERING/ESSENTIAL RAW COOLING SYSTEM
87-064	10/13/87	11/12/87	IMPROPER FIT OF EMERGENCY RAW COOLING WATER FLOOD MODE SPOOL PIECES DUE TO MINOR PIPING ORIENTATION CHANGES
87-065	1-23/87	11/19/87	ERCH SCREEN WASH PUMPS WERE OMITTED FROM THE ASME SECTION XI TEST PROGRAM
87-077	12/07/87	12/30/87	INADEQUATE DESIGN OF CONTAINMENT ISOLATION SYSTEM FOR HYDROGEN ANALYZERS COULD RESULT IN BYPASS LEAKAGE FOLLOWING COOLING LOSS RESULT IN POTENTIAL DEGRADE INERCH FLOW BOTH UNIT
87-066	10/22/87	11/19/87	POTENTIAL LOSS OF COMPONENT COOLING WATER INVENTORY DUE TO NON-SAFETY-RELATED DESIGN OF PUMP SEAL LEAKAGE RETURN SYSTEM
87-067	10/27/87	11/19/87	MONITORING TANK DILUTION FLOW WAS NOT VERIFIED DURING A LIQUID EFFLUENT RELEASE AS THE RESULT OF PERSONNEL ERROR
87-068	10/27/87	11/19/87	TECHNICAL SPECIFICATION SURVEILLANCE INTERVAL EXCEEDED DUE TO AN INCOMPLETE WORK PACKAGE

Report Period DEC 1987

R E P O R T S F R O M L I C E N S E E - (CONTINUED)

X SEQUOYAH 1 X

87-069	10/27/87	11/19/87	FAILURE TO INCLUDE CONTAINMENT SPRAY PUMP START CONTACTS RESPONSE TIME AND VALVE TIME IN THE SYSTEM FAILURE TO SATISFY
87-070	10/21/87	11/19/87	DIESEL GENERATOR VOLTAGE REGULATOR HAD A SLOWED VOLTAGE RESPONSE BECAUSE OF A COMPONENT DEFECT FOUND DURING SURVEY TE
87-071	10/05/87	11/25/87	TWO SEPARATE CONDITIONS IN THE ESSENTIAL RAW COOLING WATER SYSTEM RESULT IN THE POTENTIAL DEGRADATION OF ERCW BOTH UNITS
87-072	11/10/87	12/10/87	ESF EQUIPMENT ROOM COOLERS ARE INADEQUATE FOR HEAT LOADS DUE TO INADEQUATE DESIGN INPUTS INTO DESIGN CALCULATIONS
87-073	11/10/87	12/10/87	INADEQUATE DESIGN OF CENTRIFUGAL CHARGING PUMPS AUX LUBE OIL SYSTEM COULD RESULT IN FAILURE OF HIGH HEAD SAF INJ TO MANU SG
87-075	12/03/87	12/30/87	INADEQUATE PROC AND MISINTERPRETATION OF AUX FEEDWATER BYPASS LEVEL CONTROL

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1. Docket: 50-328 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: DAVID DUPRES (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>744.0</u>	<u>8,760.0</u>	<u>48,961.0</u>
13. Hours Reactor Critical	<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>-4,413</u>	<u>-59,378</u>	<u>22,508,146</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>43.9</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>43.9</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>40.0</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>40.0</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>51.3</u>
25. Forced Outage Hours	<u>744.0</u>	<u>8,760.0</u>	<u>22,643.3</u>

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

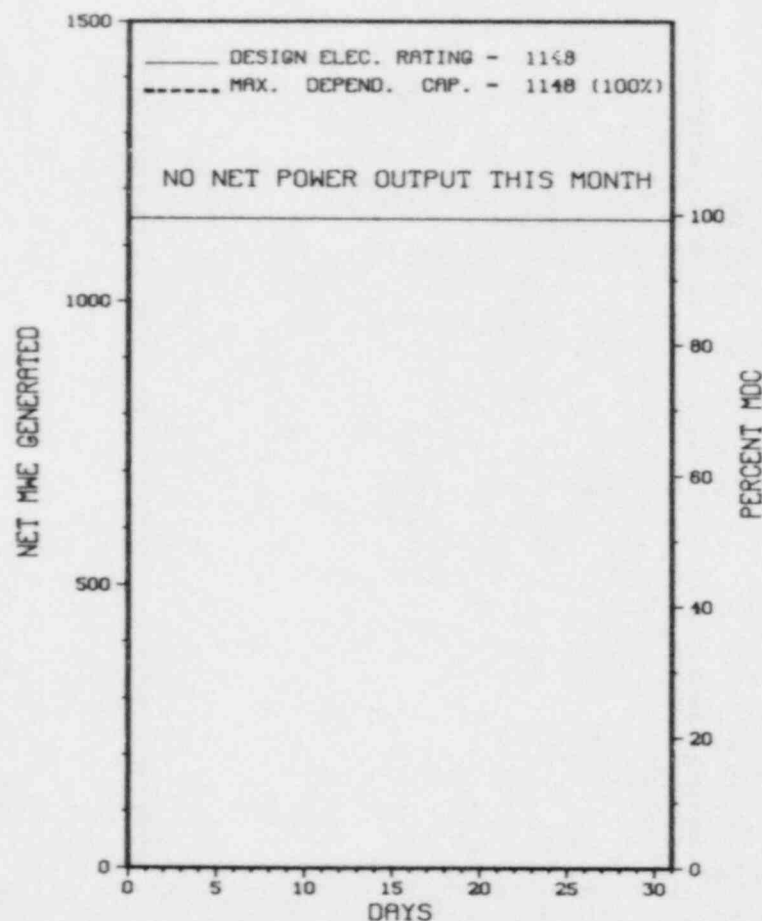
NONE

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

* SEQUOYAH 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SEQUOYAH 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SEQUOYAH 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	08/21/85	F	744.0	F	4			DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

 * SUMMARY *

SEQUOYAH 2 REMAINED SHUTDOWN IN DECEMBER 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 DEC 1987

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...NOVEMBER 5, 1981

DATE ELEC ENER 1ST GENER...DECEMBER 23, 1981

DATE COMMERCIAL OPERATE...JUNE 1, 1982

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.....50-328

LICENSE & DATE ISSUANCE...DPR-79, SEPTEMBER 15, 1981

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1001 BROAD STREET
CHATTANOOGA, TENNESSEE 37402

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 19-30 (87-66): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF SYSTEM ALIGNMENT VERIFICATION FOR UNIT 2 HEATUP. THE INSPECTION CONSISTED OF BOTH OBSERVATION OF THE LICENSEE'S ACCOMPLISHMENT OF THE SYSTEM OPERATING INSTRUCTION (SOI) CHECKLISTS AND INDEPENDENT VERIFICATION OF SYSTEM ALIGNMENT. INDEPENDENT VERIFICATION WAS ACCOMPLISHED BY COMPARING THE CONFIGURATION IN THE PLANT TO THE SOI CHECKLISTS AND THE INDEPENDENT VERIFICATION OF SYSTEM ALIGNMENT. INDEPENDENT VERIFICATION WAS ACCOMPLISHED BY COMPARING THE CONFIGURATION IN THE PLANT TO THE SOI CHECKLISTS AND THE AS-BUILT DRAWINGS. THE TEAM DETERMINED THAT THE LICENSEE'S CONFIGURATION CONTROL PROGRAM (COMPLETED SOI CHECKLISTS COMBINED WITH CONFIGURATION CONTROL LOG ENTRIES) DID NOT ACCURATELY REFLECT THE STATUS OR CONFIGURATION OF ALL EQUIPMENT REQUIRED FOR MODE CHANGE. THIS DETERMINATION RESULTED FROM 1) THE IDENTIFICATION OF EQUIPMENT INSTALLED IN THE PLANT THAT WAS NOT INCLUDED ON SOI CHECKLISTS, 2) THE IDENTIFICATION OF EQUIPMENT WHOSE STATUS WAS DETERMINED TO BE OTHER THAN THAT DOCUMENTED IN THE COMPLETED SOI CHECKLIST OR IN THE CONFIGURATION LOG, AND 3) THE IDENTIFICATION THAT THE INSTRUCTION SPECIFYING HOW TO ACCOMPLISH SOI CHECKLISTS DID NOT REQUIRE CONFIGURATION CONTROL MEASURES TO START WHEN THE CHECKLISTS WERE INITIATED. TWO VIOLATIONS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

ENVIRONMENTAL QUALIFICATION OF EQUIPMENT.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

MODE 5.

LAST IE SITE INSPECTION DATE: OCTOBER 19-30, 1987 +

INSPECTION REPORT NO: 50-328/87-66 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-008	11/27/87	12/18/87	ELECTROMAGNETIC INTERFERENCE SPIKE INITIATING A CONTAINMENT VENTILATION ISOLATION AS A RESULT OF THE DETECTOR CABLE GROUND
87-009	12/05/87	12/30/87	TWO SIMILAR CONTAINMENT VENTILATION ISOLATIONS OCCURRED AS A RESULT OF INDUCED ELECTROMAGNETIC INTERFERENCE

1. Docket: 50-335 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

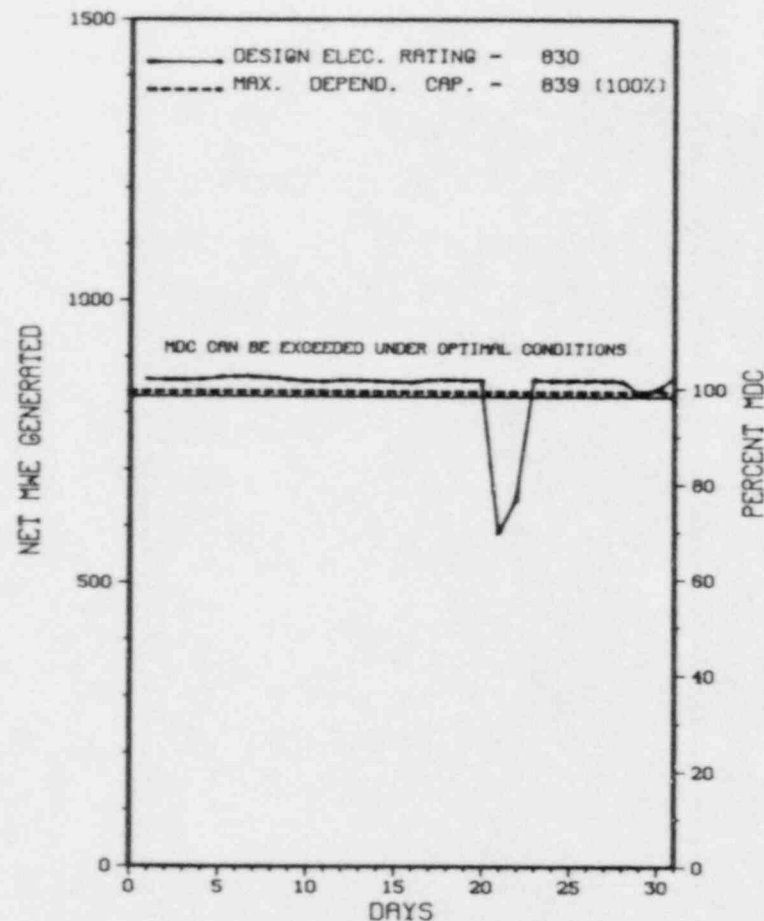
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>96,672.0</u>
13. Hours Reactor Critical	<u>738.1</u>	<u>6,971.6</u>	<u>72,551.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>205.3</u>
15. Hrs Generator On-Line	<u>735.3</u>	<u>6,814.1</u>	<u>70,970.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>39.3</u>
17. Gross Therm Ener (MWH)	<u>1,973,080</u>	<u>18,128,479</u>	<u>181,345,637</u>
18. Gross Elec Ener (MWH)	<u>660,520</u>	<u>6,038,440</u>	<u>59,523,585</u>
19. Net Elec Ener (MWH)	<u>627,235</u>	<u>5,715,344</u>	<u>56,191,589</u>
20. Unit Service Factor	<u>98.8</u>	<u>77.8</u>	<u>73.4</u>
21. Unit Avail Factor	<u>98.8</u>	<u>77.8</u>	<u>73.5</u>
22. Unit Cap Factor (MDC Net)	<u>100.5</u>	<u>77.8</u>	<u>69.3</u>
23. Unit Cap Factor (DER Net)	<u>101.6</u>	<u>78.6</u>	<u>70.0</u>
24. Unit Forced Outage Rate	<u>1.2</u>	<u>4.4</u>	<u>4.0</u>
25. Forced Outage Hours	<u>8.7</u>	<u>310.3</u>	<u>2,940.9</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

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

* ST LUCIE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * ST LUCIE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
14	12/21/87	F	8.7	A	1	335-87-017	IA	ZZZZZ	UNIT #1 TRIPPED DUE TO REACTOR PROTECTION SYSTEM CONFIGURATION COINCIDENT WITH A LOSS OF AN INSTRUMENT INVERTER DUE TO ERROR. ERROR WAS ASSESSED AND THE UNIT RETURNED TO FULL POWER OPERATION.

***** ST LUCIE 1 INCURRED 1 FORCED OUTAGE IN DECEMBER FOR REASONS STATED ABOVE.
 * 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)

* ST LUCIE 1 *

FACILITY DATA

Report Period DEC 1987

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. .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 & CONTRACTOR INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 26-30 (87-26): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF SAFETY-RELATED PIPE SUPPORTS AND PIPE SUPPORT BASE PLATE DESIGN USING CONCRETE EXPANSION ANCHOR BOLT. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period DEC 1987

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

* ST LUCIE 1 *

OTHER ITEMS

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS.

LAST IE SITE INSPECTION DATE: OCTOBER 26-30, 1987 +

INSPECTION REPORT NO: 50-335/87-27 +

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

87-015	10/14/87	11/16/87	UNIT MODE CHANGE WITHOUT SHIELD BUILDING INTEGRITY DUE TO A PROCEDURAL ERROR
87-016	10/29/87	11/30/87	REACTOR TRIP DUE TO LOSS OF CONDENSATE PUMP DUE TO INADEQUATE PROCEDURE SUPRIOUS HIGH STARTUP RATE RPS ACTUATION DUE ELECTRIC SPIKE
=====			

1. Docket: 50-389 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (MWh): 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>744.0</u>	<u>8,760.0</u>	<u>38,569.0</u>
13. Hours Reactor Critical	<u>741.5</u>	<u>7,582.3</u>	<u>32,757.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>731.9</u>	<u>7,209.7</u>	<u>32,037.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,912,453</u>	<u>18,958,739</u>	<u>82,996,642</u>
18. Gross Elec Ener (MWH)	<u>642,280</u>	<u>6,294,510</u>	<u>27,698,660</u>
19. Net Elec Ener (MWH)	<u>608,674</u>	<u>5,950,184</u>	<u>26,167,788</u>
20. Unit Service Factor	<u>98.4</u>	<u>82.3</u>	<u>83.1</u>
21. Unit Avail Factor	<u>98.4</u>	<u>82.3</u>	<u>83.1</u>
22. Unit Cap Factor (MDC Net)	<u>97.5</u>	<u>81.0</u>	<u>80.9</u>
23. Unit Cap Factor (DER Net)	<u>98.6</u>	<u>81.8</u>	<u>81.7</u>
24. Unit Forced Outage Rate	<u>1.6</u>	<u>4.1</u>	<u>7.3</u>
25. Forced Outage Hours	<u>12.1</u>	<u>310.3</u>	<u>2,511.7</u>

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

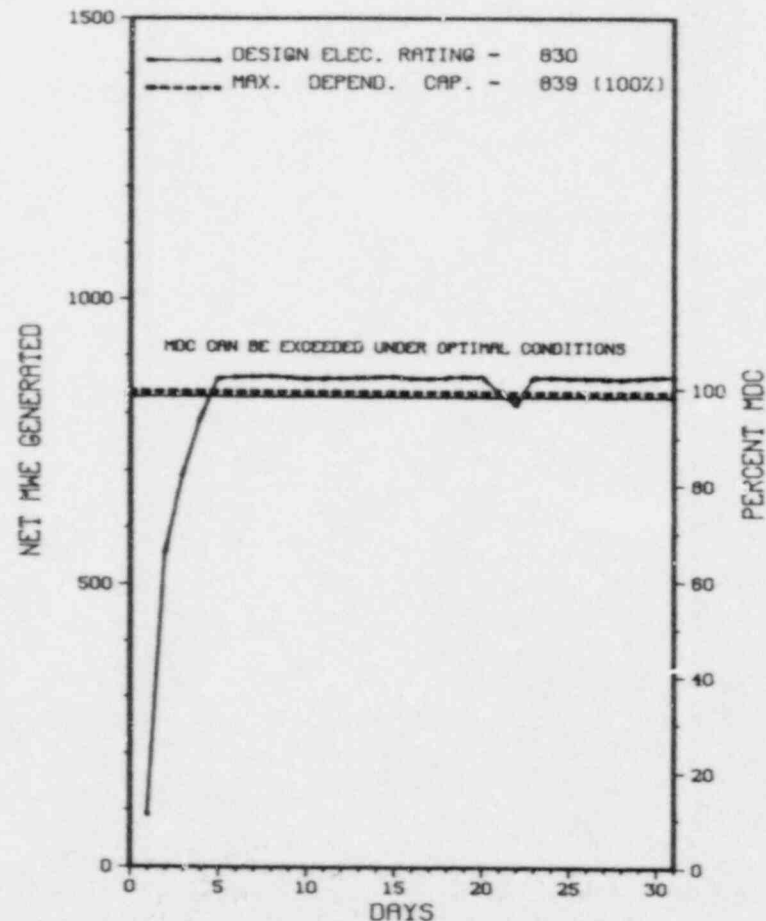
NONE

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

* ST LUCIE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * ST LUCIE 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
13	11/25/85	F	12.1	A	4		HA	GENERA	THE UNIT TRIPPED ON LOSS OF LOAD DUE TO PRIMARY GENERATOR LOCKOUT RESULTING FROM LOSS OF EXCITATION. THE #9 BEARING FAILED WHICH RESULTED IN DAMAGE TO THE PERMANENT MAGNET GENERATOR. REPAIRS WERE MADE AND THE UNIT RETURNED TO POWER.

 * SUMMARY *

ST. LUCIE 2 INCURRED 1 FORCED OUTAGE IN DECEMBER DUE TO EQUIPMENT FAILURE.

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)

* ST LUCIE 2 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 26-30 (87-25): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF SAFETY-RELATED PIPE SUPPORTS AND PIPE SUPPORT BASE PLATE DESIGN USING CONCRETE EXPANSION ANCHOR BOLT. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period DEC 1987

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

* ST LUCIE 2 *

OTHER ITEMS

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS.

LAST IE SITE INSPECTION DATE: OCTOBER 26-30, 1987 +

INSPECTION REPORT NO: 50-389/87-25 +

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

87-007	11/25/87	12/21/87	REACTOR TRIP ON LOSS OF LOAD CAUSED BY MAIN GENERATOR EXCITE BEARING FAILURE DUE TO PERSONNEL ERROR
87-008	11/28/87	12/22/87	OIL FIRE AT REACTOR COOLANT PUMP DUE TO OIL LEAK FROM LOOSE PACKING GLAND ON INSTRUMENT ISOLATION VALVE
=====			

1. Docket: 50-395 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. W. HALTIWANGER (803) 345-5209

4. Licensed Thermal Power (Mwt): 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>744.0</u>	<u>8,760.0</u>	<u>35,064.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,222.4</u>	<u>26,668.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,136.9</u>	<u>26,128.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,061,914</u>	<u>16,389,360</u>	<u>68,783,680</u>
18. Gross Elec Ener (MWH)	<u>689,770</u>	<u>5,419,990</u>	<u>22,829,413</u>
19. Net Elec Ener (MWH)	<u>662,495</u>	<u>5,151,897</u>	<u>21,739,583</u>
20. Unit Service Factor	<u>100.0</u>	<u>70.1</u>	<u>74.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>70.1</u>	<u>74.5</u>
22. Unit Cap Factor (MDC Net)	<u>100.6</u>	<u>66.5</u>	<u>70.1</u>
23. Unit Cap Factor (DER Net)	<u>98.9</u>	<u>65.3</u>	<u>68.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>5.4</u>	<u>6.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>353.3</u>	<u>1,823.1</u>

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

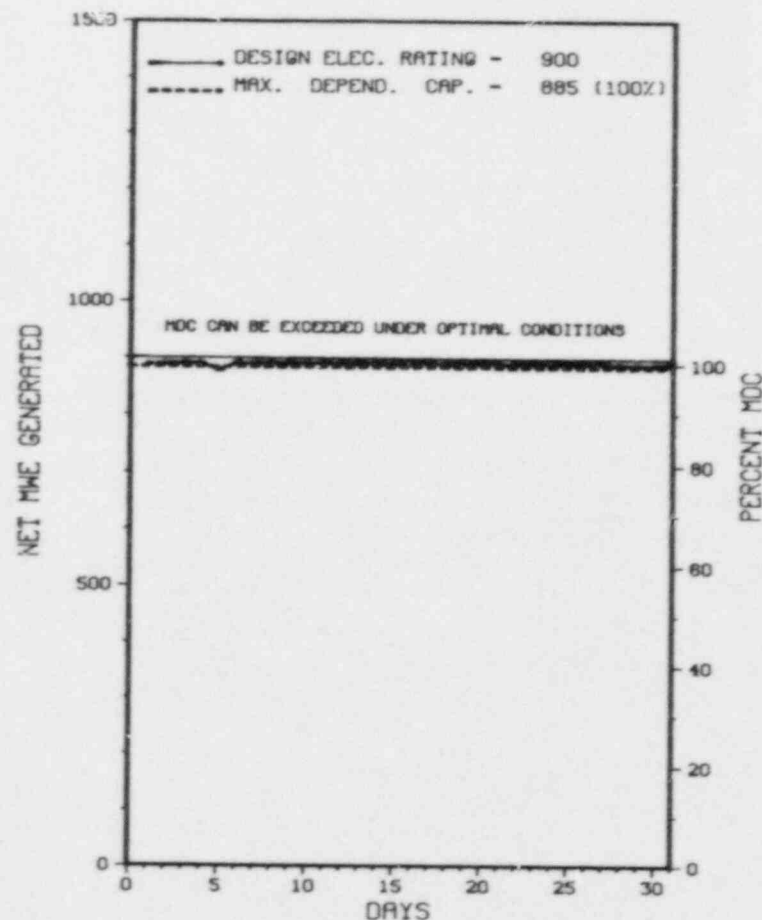
NONE

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

* SUMMER 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUMMER 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* SUMMER 1 *

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

NONE

* SUMMARY *

SUMMER 1 OPERATED ROUTINELY IN DECEMBER 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)

* SUMMER 1 *

FACILITY DATA

Report Period DEC 1987

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
WINNSBORD, SOUTH CAROLINA 29180

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 1-30 (87-33): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED BY THE RESIDENT INSPECTORS ONSITE, IN THE AREAS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, ONSITE FOLLOWUP OF EVENTS AND SUBSEQUENT WRITTEN REPORTS, MONTHLY SURVEILLANCE OBSERVATIONS, ENGINEERED SAFETY FEATURES SYSTEM WALKDOWN, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, COLD WEATHER PREPARATIONS, INFORMATION MEETING WITH LOCAL OFFICIALS AND OTHER AREAS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

INSPECTION STATUS - (CONTINUED)

PAGE 2-403

1. Docket: 50-280 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>131,712.0</u>
13. Hours Reactor Critical	<u>709.9</u>	<u>6,178.3</u>	<u>84,739.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,774.5</u>
15. Hrs Generator On-Line	<u>693.6</u>	<u>6,116.9</u>	<u>82,970.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,736.2</u>
17. Gross Therm Ener (MWH)	<u>1,688,578</u>	<u>14,680,108</u>	<u>192,227,266</u>
18. Gross Elec Ener (MWH)	<u>568,325</u>	<u>4,877,255</u>	<u>62,375,173</u>
19. Net Elec Ener (MWH)	<u>541,220</u>	<u>4,622,405</u>	<u>59,152,162</u>
20. Unit Service Factor	<u>93.2</u>	<u>69.8</u>	<u>63.0</u>
21. Unit Avail Factor	<u>93.2</u>	<u>69.8</u>	<u>65.8</u>
22. Unit Cap Factor (MDC Net)	<u>93.1</u>	<u>67.7</u>	<u>57.5</u>
23. Unit Cap Factor (DER Net)	<u>92.3</u>	<u>67.1</u>	<u>57.0</u>
24. Unit Forced Outage Rate	<u>6.8</u>	<u>16.5</u>	<u>17.9</u>
25. Forced Outage Hours	<u>50.4</u>	<u>1,206.9</u>	<u>14,420.3</u>

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

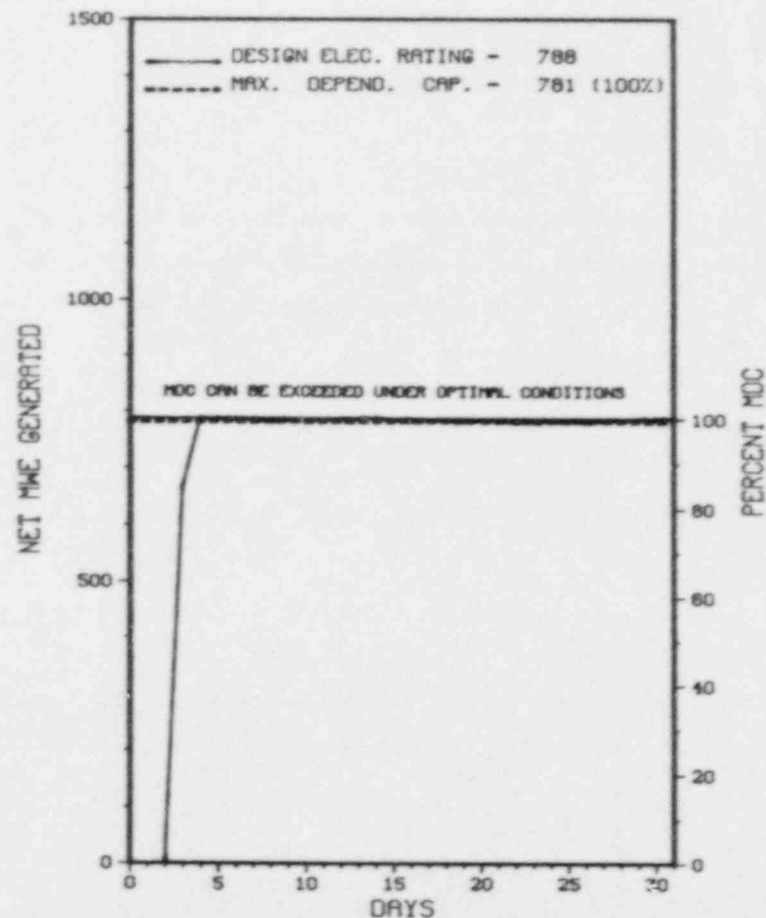
REFUELING 4/4/88. DURATION 48 DAYS.

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

* SURRY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SURRY 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SURRY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-10	11/25/87	F	50.4	A	4				THE UNIT WAS SHUTDOWN DUE TO A LEAK ON "C" S/G SECONDARY MANWAY. MANWAY WAS REPLACED AND UNIT RETURNED TO SERVICE.

 * SUMMARY *

 SURRY 1 ENTERED DECEMBER SHUTDOWN AND SUBSEQUENTLY RETURNED TO FULL 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)

* SURRY 1 *

FACILITY DATA

Report Period DEC 1987

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

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

INSPECTION SUMMARY

+ INSPECTION NOVEMBER 1 - DECEMBER 4 (87-33): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF, PLANT OPERATIONS, COLD WEATHER PREPARATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, AND LICENSEE EVENT REPORT REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THIS INSPECTION REPORT.

INSPECTION NOVEMBER 30 - DECEMBER 4 (87-34): THIS ROUTINE, UNANNOUNCED SECURITY INSPECTION REVIEWED THE FOLLOWING: PLAN/PROCEDURES, MANAGEMENT/ORGANIZATION, AUDIT, RECORDS, LIGHTING, POWER SUPPLY, ALARM STATIONS AND COMMUNICATIONS. NO VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period DEC 1987

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

* SURRY 1 *

OTHER ITEMS

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATION.

NONE.

LAST IE SITE INSPECTION DATE: NOVEMBER 30 - DECEMBER 4, 1987 +

INSPECTION REPORT NO: 50-280/87-34 +

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
87-027	10/27/87	11/25/87	SPURIOUS ENGINEERED SAFETY FEATURES ACTUATION DUE TO WATER INTRUSION INTO CONTROL PANEL
87-028	10/21/87	11/20/87	EDG OUTPUT BREAKER PROTECTION CIRCUIT; DESIGN DEFICIENCY
87-029	11/05/87	12/04/87	MAIN CONTROL ROOM VENTILATION ISOLATION DUE TO HIGH VOLTAGE OUTPUT ON CHLORINE GAS DETECTOR
87-030	11/05/87	12/04/87	INADVERTENT ENGINEERED SAFETY FEATURE ACTUATION DUE TO INADEQUATE PROCEDURE
87-031	11/12/87	12/11/87	CONTAINMENT ISOLATION VALVE INOPERABLE DUE TO MECHANICAL BINDING OF VALVE OPERATOR
87-032	11/11/87	12/11/87	PROTECTION SYSTEM CHANNEL INOPERABLE DUE TO FAILED SUMMATOR IN SIGNAL CONDITIONING CIRCUIT
87-033	11/24/87	12/22/87	CHARGING PUMP COMPONENT COOLING WATER SYSTEM INOPERABLE DUE TO INADEQUATE TEST PROCEDURE
87-034	11/26/87	12/22/87	IODINE SPIKE DUE TO DEFECTIVE FUEL ELEMENT
87-035	07/17/87	12/31/87	REQUIRED SURVEILLANCE NOT PERFORMED DUE TO HUMAN ERROR
87-036	12/02/87	12/31/87	CONTAINMENT AIR LOCK LEAKAGE DUE TO INADEQUATE SEAL

Report Period DEC 1987

R E P O R T S F R O M L I C E N S E E - (CONTINUED)

* SURRY 1 *

87-037	12/03/87	12/22/87	EMERGENCY DIESEL GENERATOR AUTO-START DUE TO FAILED RELAY AND BLOWN FUSE
87-038	12/08/87	01/07/88	INCREASED OFF-SITE THYROID DOSE CALCULATIONS FROM STEAM GENERATOR TUBE RUPTURE DUE TO POST-TRIP STEAM GEN TUBE UNCOVERY

=====

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1. Docket: 50-281 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: L. A. WARREN (804) 357-3184

4. Licensed Thermal Power (MWh): 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>744.0</u>	<u>8,760.0</u>	<u>128,592.0</u>
13. Hours Reactor Critical	<u>406.2</u>	<u>6,555.2</u>	<u>84,668.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>23.8</u>
15. Hrs Generator On-Line	<u>363.7</u>	<u>6,457.9</u>	<u>83,298.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>877,008</u>	<u>15,377,884</u>	<u>195,170,349</u>
18. Gross Elec Ener (MWH)	<u>289,855</u>	<u>5,045,000</u>	<u>63,367,824</u>
19. Net Elec Ener (MWH)	<u>275,968</u>	<u>4,790,953</u>	<u>60,078,781</u>
20. Unit Service Factor	<u>48.9</u>	<u>73.7</u>	<u>64.8</u>
21. Unit Avail Factor	<u>48.9</u>	<u>73.7</u>	<u>64.8</u>
22. Unit Cap Factor (MDC Net)	<u>47.5</u>	<u>70.0</u>	<u>59.8</u>
23. Unit Cap Factor (DER Net)	<u>47.1</u>	<u>69.4</u>	<u>59.3</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>22.6</u>	<u>14.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>1,883.5</u>	<u>10,859.1</u>

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

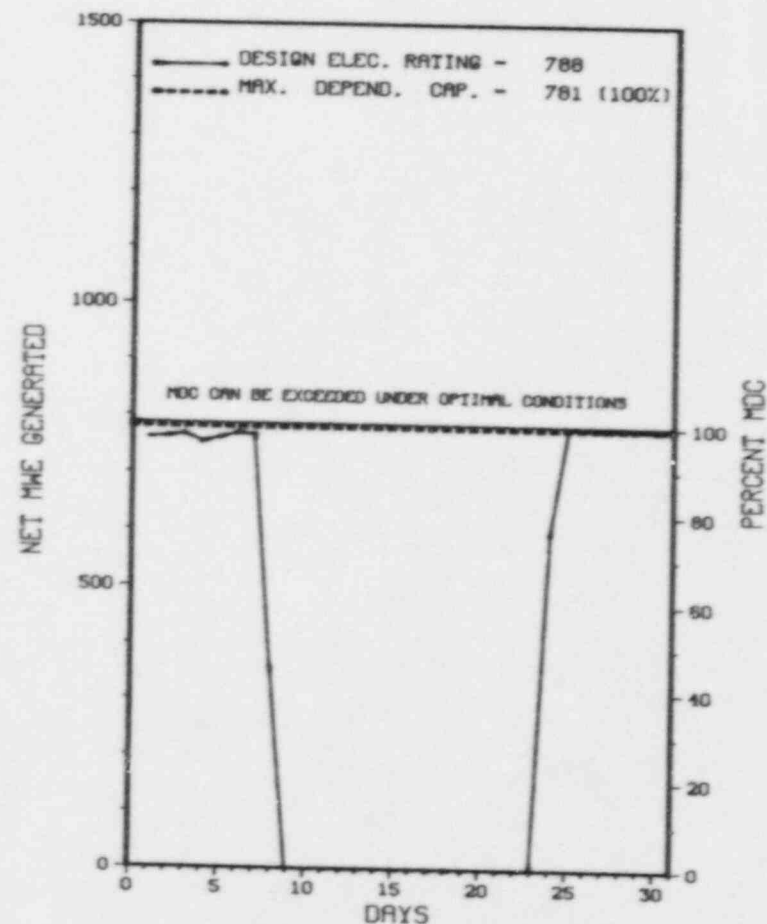
NONE

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

 * SURRY 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SURRY 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* SURRY 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-09	12/08/87	S	380.3	H	1				UNIT WAS SHUTDOWN FOR SCHEDULED MAINTENANCE OUTAGE.

* SUMMARY *

SURRY 2 WAS SHUTDOWN FOR SCHEDULED MAINTENANCE OUTAGE DURING DECEMBER AND SUBSEQUENTLY
RETURNED TO FULL POWER AT END OF 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)

* SURRY 2 *

FACILITY DATA

Report Period DEC 1987

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.....SHEM LIBRARY
COLLEGE OF WILLIAM AND MARY
WILLIAMSBURG, VIRGINIA 23185

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION NOVEMBER 1 - DECEMBER 4 (87-33): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF, PLANT OPERATIONS, COLD WEATHER PREPARATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, AND LICENSEE EVENT REPORT REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THIS INSPECTION REPORT.

INSPECTION NOVEMBER 30 - DECEMBER 4 (87-34): THIS ROUTINE, UNANNOUNCED SECURITY INSPECTION REVIEWED THE FOLLOWING: PLAN/PROCEDURES, MANAGEMENT/ORGANIZATION, AUDIT, RECORDS, LIGHTING, POWER SUPPLY, ALARM STATIONS AND COMMUNICATIONS. NO VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

X SURRY 2 X

OTHER ITEMS

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATION. +

LAST IE SITE INSPECTION DATE: NOVEMBER 30 - DECEMBER 4, 1987 +

INSPECTION REPORT NO: 50-281/87-34 +

REPORTS FROM LICENSEE

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NONE.			

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1. Docket: 50-387 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. A. HIRT (717) 542-3917

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): 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>744.0</u>	<u>8,760.0</u>	<u>40,033.0</u>
13. Hours Reactor Critical	<u>510.4</u>	<u>6,464.6</u>	<u>28,654.0</u>
14. Rx Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>773.2</u>
15. Hrs Generator On-Line	<u>469.2</u>	<u>6,333.0</u>	<u>27,948.8</u>
16. Unit Reserve Shtdn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,377,762</u>	<u>19,770,339</u>	<u>86,046,425</u>
18. Gross Elec Ener (MWH)	<u>451,084</u>	<u>6,423,061</u>	<u>28,010,599</u>
19. Net Elec Ener (MWH)	<u>430,505</u>	<u>6,127,879</u>	<u>26,847,396</u>
20. Unit Service Factor	<u>63.1</u>	<u>72.3</u>	<u>69.8</u>
21. Unit Avail Factor	<u>63.1</u>	<u>72.3</u>	<u>69.8</u>
22. Unit Cap Factor (MDC Net)	<u>56.1</u>	<u>67.8</u>	<u>65.0</u>
23. Unit Cap Factor (DER Net)	<u>54.3</u>	<u>65.7</u>	<u>63.0</u>
24. Unit Forced Outage Rate	<u>36.9</u>	<u>9.6</u>	<u>10.9</u>
25. Forced Outage Hours	<u>274.8</u>	<u>671.5</u>	<u>3,416.6</u>

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

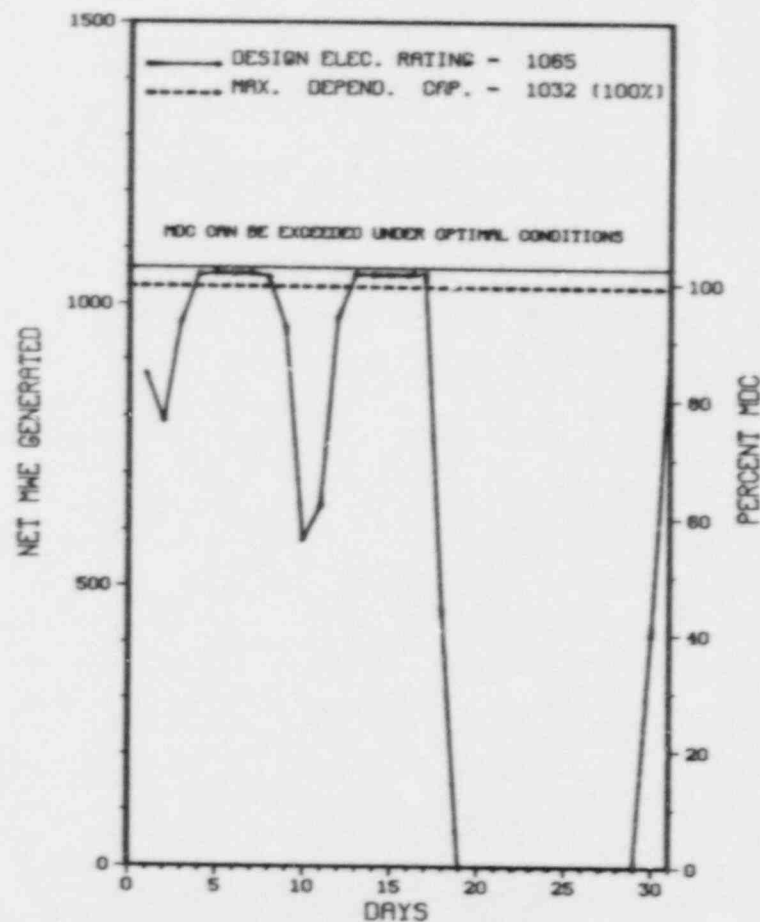
NONE

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

* SUSQUEHANNA 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * SUSQUEHANNA 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
7	12/09/87	S	0.0	B	5		ZZZ	ZZZZZ	OPERATIONS PERSONNEL BEGAN A POWER REDUCTION TO APPROXIMATELY 60% POWER ON DECEMBER 9 AT 1900 HOURS. THE REDUCTION WAS REQUIRED SO THAT BASELINE APRM AND LRPM NEUTRON FLUX NOISE VALVES COULD BE OBTAINED WITH ONE RECIRCULATION PUMP IN OPERATION. THIS WAS REQUIRED PER TECHNICAL SPECIFICATION 4.4.1.1.2.4. AFTER THE SURVEILLANCE WAS COMPLETED, OPERATORS INCREASED REACTOR POWER WITH 100% POWER OPERATION BEING ACHIEVED AT 1410 HOURS ON DECEMBER 12, 1987.
8	12/18/87	F	274.8	F	1		SG	COND	ON 12/18 UNIT WAS MANUALLY SHUTDOWN DUE TO REACTOR VESSEL CONDUCTIVITY EXCEEDING ADMINISTRATIVE LIMITS. MAINTENANCE PERSONNEL PLUGGED TUBES IN CONDENSER. UNIT WAS BROUGHT TO CRITICALITY ON 12/22. APPROXIMATELY 20 MINUTES LATER THE UNIT WENT SUBCRITICAL. THE UNIT REGAINED CRITICALITY ON 12/23. THE UNIT WAS MANUALLY SHUTDOWN WHEN ANOTHER MANWAY GASKET WAS DISCOVERED TO BE LEAKING. THE UNIT WAS THEN RESTARTED WITH CRITICALITY BEING ACHIEVED ON 12/29. UNIT SYNCHRONIZED TO THE GRID ON 12/30. AFTER SYNCHRONIZATION THE TURBINE TRIPPED ON HIGH MOISTURE SEPARATOR DRAIN TANK LEVEL. THE VALVE OPERATOR BREAKER WAS RESET. THE UNIT WAS RESYNCHRONIZED TO THE GRID.

 * SUMMARY *

 SUSQUEHANNA 1 INCURRED 1 POWER REDUCTION AND 1 OUTAGE IN DECEMBER FOR REASONS STATED ABOVE.

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

* SUSQUEHANNA 1 *

FACILITY DATA

Report Period DEC 1987

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.....L. PLISCO
LICENSING PROJ 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

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 DEC 1987

INSPECTION STATUS - (CONTINUED)

X SUSQUEHANNA 1 X

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

NUMBER DATE OF DATE OF SUBJECT
EVENT REPORT

NO INPUT PROVIDED.

1. Docket: 50-388 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: J. A. HIRT (717) 542-3917

4. Licensed Thermal Power (MWh): 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:

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>744.0</u>	<u>8,760.0</u>	<u>25,272.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>8,484.0</u>	<u>21,551.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>693.9</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>8,431.6</u>	<u>21,160.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,426,738</u>	<u>27,232,833</u>	<u>66,625,718</u>
18. Gross Elec Ener (MWH)	<u>796,856</u>	<u>8,902,468</u>	<u>21,806,762</u>
19. Net Elec Ener (MWH)	<u>769,251</u>	<u>8,598,435</u>	<u>21,000,964</u>
20. Unit Service Factor	<u>100.0</u>	<u>96.3</u>	<u>83.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>96.3</u>	<u>83.7</u>
22. Unit Cap Factor (MDC Net)	<u>100.2</u>	<u>95.1</u>	<u>80.5</u>
23. Unit Cap Factor (DER Net)	<u>97.1</u>	<u>92.2</u>	<u>78.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.7</u>	<u>9.2</u>
25. Forced Outage Hours	<u>.0</u>	<u>328.4</u>	<u>2,149.0</u>

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

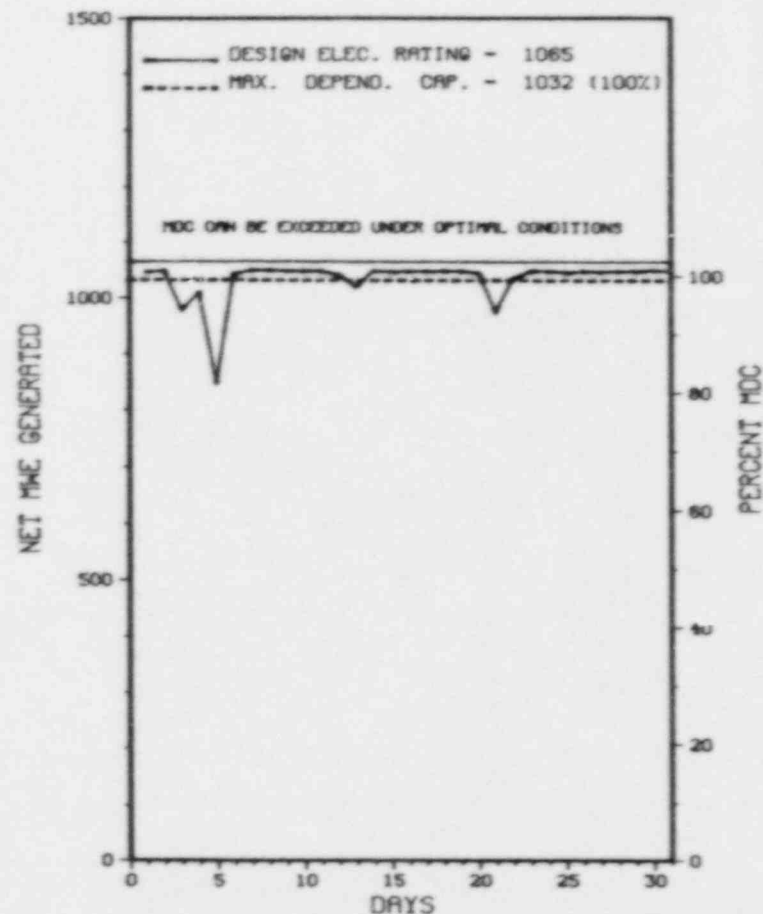
REFUELING - MARCH 5, 1988 - DURATION 77 DAYS.

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

* SUSQUEHANNA 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* SUSQUEHANNA 2 *

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

* SUMMARY *

SUSQUEHANNA 2 OPERATED ROUTINELY IN DECEMBER 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 2 *

FACILITY DATA

Report Period DEC 1987

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.....L. PLISCO
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

INSPECTION STATUS

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 DEC 1987

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

* SUSQUEHANNA 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.

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

NUMBER DATE OF DATE OF SUBJECT
 EVENT REPORT

NO INPUT PROVIDED.

1. Docket: 50-289 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: C. W. SMYTH (717) 948-8551

4. Licensed Thermal Power (MWh): 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>744.0</u>	<u>8,760.0</u>	<u>116,857.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,435.2</u>	<u>46,520.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>11.2</u>	<u>1,826.2</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,353.6</u>	<u>45,599.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,879,348</u>	<u>15,560,439</u>	<u>110,487,700</u>
18. Gross Elec Ener (MWH)	<u>651,898</u>	<u>5,349,350</u>	<u>36,868,221</u>
19. Net Elec Ener (MWH)	<u>616,302</u>	<u>5,034,307</u>	<u>34,504,283</u>
20. Unit Service Factor	<u>100.0</u>	<u>72.5</u>	<u>39.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>72.5</u>	<u>39.0</u>
22. Unit Cap Factor (MDC Net)	<u>106.7</u>	<u>74.1</u>	<u>37.8*</u>
23. Unit Cap Factor (DER Net)	<u>101.1</u>	<u>70.2</u>	<u>36.1</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>5.5</u>	<u>56.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>373.1</u>	<u>59,312.9</u>

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

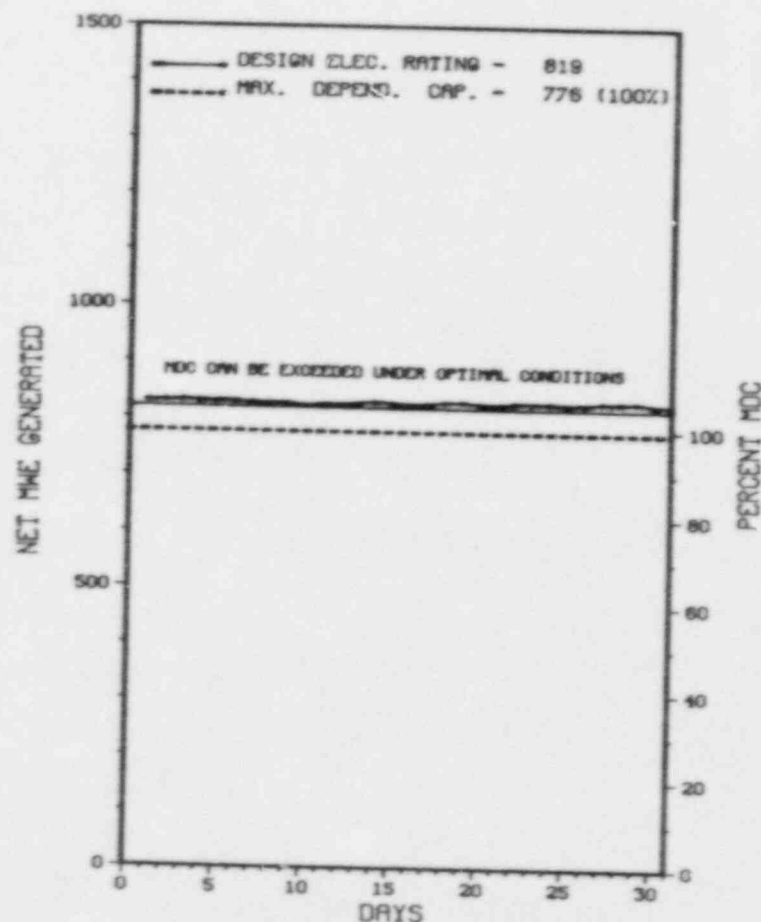
NONE

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

* THREE MILE ISLAND 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

THREE MILE ISLAND 1



DECEMBER 1987

* Item calculated with a Weighted Average

PAGE 2-422

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* THREE MILE ISLAND 1 *

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

* SUMMARY *

THREE MILE ISLAND 1 OPERATED ROUTINELY IN DECEMBER 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)

* THREE MILE ISLAND 1 *

FACILITY DATA

Report Period DEC 1987

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. HERMAN
DOCKET NUMBER.....50-289
LICENSE & DATE ISSUANCE....D-50, APRIL 19, 1974
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 INP-JT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period DEC 1987

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

* THREE MILE ISLAND 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
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NO INPUT PROVIDED.

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OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: F. J. UHMER (503) 556-3713 X495

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): $1280 \times 0.95 = 1216$

6. Design Electrical Rating (Net MWe): 1130

7. Maximum Dependable Capacity (Gross MWe): 1135

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	744.0	8,760.0	99,336.0
13. Hours Reactor Critical	313.0	4,730.5	62,345.0
14. Rx Reserve Shtdwn Hrs	.0	.0	3,875.4
15. Hrs Generator On-Line	308.5	4,631.6	60,671.2
16. Unit Reserve Shtdwn Hrs	.0	.0	3,237.0
17. Gross Therm Ener (MWH)	1,031,137	13,914,354	193,345,364
18. Gross Elec Ener (MWH)	346,411	4,603,208	62,888,071
19. Net Elec Ener (MWH)	322,888	4,347,772	59,499,277
20. Unit Service Factor	41.5	52.9	61.1
21. Unit Avail Factor	41.5	52.9	64.3
22. Unit Cap Factor (MDC Net)	40.4	46.2	55.7
23. Unit Cap Factor (DER Net)	38.4	43.9	53.0
24. Unit Forced Outage Rate	58.5	10.7	13.9
25. Forced Outage Hours	435.5	555.1	9,803.5

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

REFUELING - APRIL 1988

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

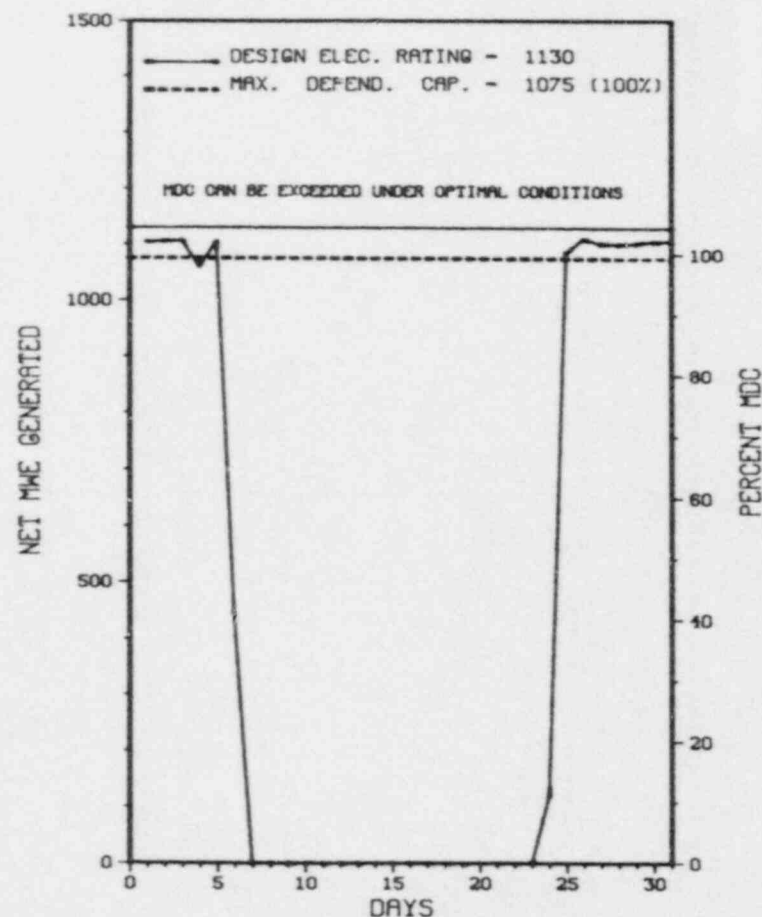
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                TROJAN                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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AVERAGE DAILY POWER LEVEL (MW_g) PLOT

TROJAN



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * TROJAN *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-07	12/06/87	F	435.5	A	2	87-37	HA	INSTRU	A FULL LOAD REJECTION FROM 100% POWER OCCURRED WHEN THE TURBINE CONTROL LOAD DECREASE BUTTON SHORTED ELECTRICALLY. THE REACTOR WAS MANUALLY SCRAMMED AT APPROXIMATELY 5% POWER. AN 18 DAY FORCED OUTAGE WAS BEGUN TO REPAIR VARIOUS VALVES AND FOR ADMINISTRATIVE REASONS. THE TURBINE CONTROL UNIT WAS REPAIRED AND THE GENERATOR WAS SYNCHED TO THE GRID DECEMBER 24, 1987.

 * SUMMARY *

TROJAN 1 INCURRED 1 FORCED OUTAGE IN DECEMBER 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)

* TROJAN *

FACILITY DATA

Report Period DEC 1987

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 GENER...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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON SEPTEMBER 21 - OCTOBER 2, 1987 (REPORT NO. 50-344/87-31) AREAS INSPECTED: ROUTINE, ANNOUNCED TEAM INSPECTION OF THE TROJAN NUCLEAR POWER PLANT. THE INSPECTION FOCUSED ON THE ABILITY OF THE PLANT TO LEARN FROM PREVIOUS EXPERIENCES IN THE NUCLEAR INDUSTRY AND FROM EXPERIENCES AT TROJAN. THE INSTRUMENT AIR SYSTEM, THE EMERGENCY DIESEL GENERATOR AIR START SYSTEM AND THE MAIN FEEDWATER SYSTEM WERE SELECTED AS THE SAMPLE SYSTEMS FOR INSPECTIONS. THIS INSPECTION WAS PERFORMED BY SIX REGIONALLY BASED INSPECTORS AND ONE NRC CONSULTANT. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: IN THE AREAS INSPECTED, SIX VIOLATIONS OF NRC REQUIREMENTS AND ONE DEVIATION FROM UFSAR COMMITMENTS WERE IDENTIFIED.

+ INSPECTION ON NOVEMBER 1-30, 1987 (REPORT NO. 50-344/87-41) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON NOVEMBER 30 - DECEMBER 4, 1987 (REPORT NO. 50-344/87-42) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF RADIOACTIVE LIQUID AND LIQUID WASTE, RADIOACTIVE GASEOUS WASTE SYSTEMS, AND FACILITY TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON DECEMBER 7-11, 1987 (REPORT NO. 50-344/87-43) AREAS INSPECTED: THIS ROUTINE, UNANNOUNCED INSPECTION BY THE PROJECT INSPECTOR INVOLVED THE AREAS OF TEMPORARY INSTRUCTION 2515/84 AND VERIFICATION OF COMPLIANCE WITH ORDER FOR MODIFICATION

INSPECTION SUMMARY

OF LICENSE: PRIMARY COOLANT SYSTEM PRESSURE ISOLATION (EVENT V) VALVES, FOLLOWUP ITEMS, AND ONSITE FOLLOWUP OF CURRENT EVENTS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

* INSPECTION ON NOVEMBER 22, 1987 - JANUARY 2, 1988 (REPORT NO. 50-344/87-44) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

* MANAGEMENT MEETING ON DECEMBER 1, 1987 (REPORT NO. 50-344/87-45) A LICENSEE MANAGEMENT MEETING TO REVIEW THE DESIGN DOCUMENTATION AND SYSTEM ENGINEER PROGRAMS CONCERNING THE TROJAN NUCLEAR PLANT WERE DISCUSSED.

ENFORCEMENT SUMMARY

CONTRARY TO TS 6.5.3.1, DESIGN CHANGES WERE NOT REQUIRED TO BE REVIEWED BY PERSONNEL QUALIFIED IN FIRE PROTECTION. CONTRARY TO 10 CFR 50, APPENDIX B, ADEQUATE CORRECTIVE ACTION WAS NOT TAKEN FOR SUPERVISORS NOT BEING TRAINED TO ISSUE WELDING AND CUTTING PERMITS. CONTRARY TO TS 6.4.2 AND 6.2.2, FIRE BRIGADE TRAINING WAS NOT IN ACCORDANCE WITH NFPA-27.
(8703 4)

10 CFR 50, APPENDIX B, CRITERION V. STATES IN PART "ACTIVITIES AFFECTING QUALITY SHALL BE PRESCRIBED BY DOCUMENTED INSTRUCTIONS, PROCEDURES, OR DRAWINGS, OF A TYPE APPROPRIATE TO THE CIRCUMSTANCES AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE INSTRUCTIONS, PROCEDURES, OR DRAWINGS." PLANT PERIODIC OPERATING TEST, POT 28-1, CORE QUADRANT POWER TILT RATIO VERIFICATION SPECIFIES IN PART THAT 0 PTR VALVES EXCEEDING 1.020 AFTER CALCULATIONS USING NUCLEAR INSTRUMENTATION DETECTOR VOLTAGES SHALL BE CONFIRMED BY PERFORMING A NUCLEAR INSTRUMENT CURRENT CALCULATION. CONTRARY TO THE ABOVE, DURING THREE INSTANCES OF REQUIRED TECHNICAL SPECIFICATIONS SURVEILLANCE TESTING PERFORMED ON SEPTEMBER 12, 19, AND 26 OF 1987, DETECTOR CURRENT CALCULATIONS WERE NOT PERFORMED AFTER DETECTOR VOLTAGE CALCULATIONS SHOWED 0 PTR VALUES EXCEEDING 1.020. TECHNICAL SPECIFICATION 4.10.1.2 STATES, "EACH FULL LENGTH CONTROL ROD NOT FULLY INSERTED SHALL BE DEMONSTRATED OPERABLE BY VERIFYING ITS DROP TIME TO BE LESS THAN OR EQUAL TO 2.2 SECONDS WITHIN 24 HOURS PRIOR TO REDUCING THE SHUTDOWN MARGIN TO LESS THAN THE LIMITS OF SPECIFICATION 3.1.1.1." CONTRARY TO THE ABOVE, DURING LOW POWER PHYSICS TESTING CONDUCTED IN JULY 1985, SEPTEMBER 1984, AND JULY 1983, ROD DROP TIME MEASUREMENT WAS PERFORMED FOR ONLY ONE CONTROL ROD (AT LOCATED K-06) WITHIN 24 HOURS PRIOR TO REDUCING THE SHUTDOWN MARGIN TO LESS THAN THE LIMITS OF SPECIFICATION 3.1.1.1.
(8704 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

+ NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

INSPECTION STATUS - (CONTINUED)

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*****  
X          TROJAN          X  
*****
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POWER LEVEL 100%.

LAST IE SITE INSPECTION DATE: 11/22/87 - 01/02/88+

INSPECTION REPORT NO: 50-344/87-44+

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-30-L0	10-21-87	11-20-87	LOW CCW FLOW TO RHR HEAT EXCHANGER-PROCEDURE INADEQUACY
87-31-L0	10-21-87	11-20-87	STEAM FLOW CHANNEL BISTABLE NOT TRIPPED PER TECH SPECS
87-32-L0	04-17-87	11-25-87	RCS WIDE RANGE PRESSURE TRANSMITTERS OUT-OF-CALIBRATION DUE TO INSTRUMENT DRIFT
87-33-L0	10-30-87	11-25-87	MAIN STEAM PRESSURE TRANSMITTERS OUT-OF-CALIBRATION - APPARENT PROCEDURE INADEQUACY
87-34-L0	11-02-87	12-02-87	EDG NOT DEMONSTRATED OPERABLE PER TECHNICAL SPECIFICATIONS - PERSONNEL ERROR

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1. Docket: 50-250 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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

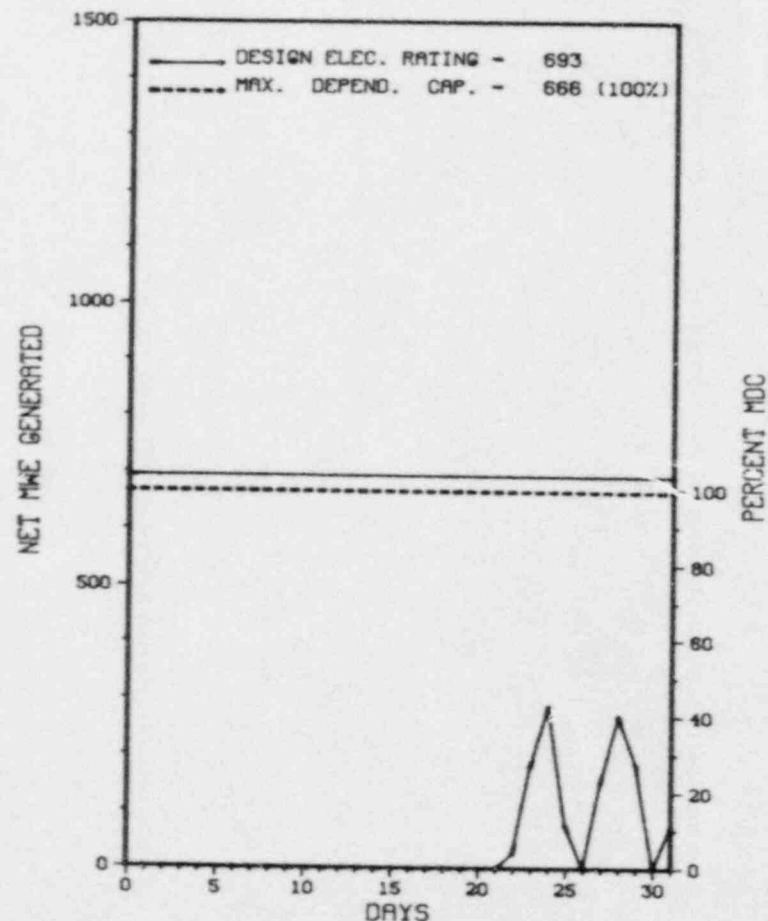
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>132,129.6</u>
13. Hours Reactor Critical	<u>162.4</u>	<u>1,909.7</u>	<u>89,694.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>844.3</u>
15. Hrs Generator On-Line	<u>141.2</u>	<u>1,567.7</u>	<u>86,795.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>121.8</u>
17. Gross Therm Ener (MWH)	<u>127,764</u>	<u>2,958,856</u>	<u>179,804,265</u>
18. Gross Elec Ener (MWH)	<u>34,940</u>	<u>963,150</u>	<u>57,598,001</u>
19. Net Elec Ener (MWH)	<u>23,047</u>	<u>856,146</u>	<u>54,478,786</u>
20. Unit Service Factor	<u>19.0</u>	<u>17.9</u>	<u>65.7</u>
21. Unit Avail Factor	<u>19.0</u>	<u>17.9</u>	<u>65.8</u>
22. Unit Cap Factor (MDC Net)	<u>4.7</u>	<u>14.7</u>	<u>63.2*</u>
23. Unit Cap Factor (DER Net)	<u>4.5</u>	<u>14.1</u>	<u>59.5</u>
24. Unit Forced Outage Rate	<u>81.0</u>	<u>63.6</u>	<u>10.1</u>
25. Forced Outage Hours	<u>602.8</u>	<u>2,735.6</u>	<u>9,247.3</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

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

* TURKEY POINT 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TURKEY POINT 3



DECEMBER 1987

* Item calculated with a Weighted Average

PAGE 2-432

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * TURKEY POINT 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
08	09/25/87	F	175.0	A	4	250-87-30	CF	PUMPXX	UNIT #3 REMAINED SHUTDOWN TO COMPLETE A DESIGN MODIFICATION TO RHR PUMP RECIRCULATING LINES WHICH CORRECTED A POTENTIAL INADEQUACY IN THE COMMON MINIMUM RECIRCULATING PIPING DESIGN.
09	12/14/87	F	344.6	A	1		CG	VALVEX	THE SHUTDOWN WAS FURTHER EXTENDED TO REPAIR A LEVEL CONTROL VALVE ON RCS LETDOWN. ADDITIONAL OUTAGE TIME WAS REQUIRED TO RE-MOUNT THE ACTUATION SOLENOID ON THE CONTAINMENT PURGE VALVE, REPAIR THE POWER SUPPLY BREAKER TO THE RADIATION MONITORS, AND TO REPLACE COUPLINGS ON THE 3A INTAKE COOLING WATER PUMP. THE UNIT COMMENCED POWER OPERATIONS.
10	12/25/87	F	39.0	A	1	250-87-33	1A	INSTRU	WHILE ATTEMPTING A CONTROL SHUTDOWN DUE TO PRESSURIZER CONTROL PROBLEM AN AUTOMATIC TRIP OCCURRED DUE TO A SPIKE IN THE SOURCE RANGE NUCLEAR INSTRUMENT. AFTER A SHORT DELAY THE UNIT BEGAN TO RETURN TO POWER.
11	12/29/87	F	44.2	A	2	250-87-34	1A	RELAYX	WHILE ATTEMPTING TO RETURN TO FULL POWER THE REACTOR WAS MANUALLY TRIPPED WHEN DECREASING ELECTRICAL LOAD WAS NOTED DUE TO STUCK RELAY IN THE GENERATOR PROTECTION CIRCUITRY. THE UNIT IS PREPARING TO RETURN TO POWER.

 * SUMMARY *

 TURKEY POINT 3 REMAINED SHUTDOWN STARTING INTO DECEMBER AND SUBSEQUENTLY INCURRED 3 ADDITIONAL SHUTDOWNS WHILE RETURNING 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)

* TURKEY POINT 3 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION SEPTEMBER 22 - OCTOBER 25 (87-44): THIS SPECIAL, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTION, IN THE AREAS OF THE UNAUTHORIZED DILUTION EVENT AND THE RESOLUTION OF ISSUES RAISED BY ONE OF THE LICENSEE'S MANAGEMENT-ON-SHIFT PERSONNEL. TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 4-6 (87-46): THIS SPECIAL, ANNOUNCED REACTIVE INSPECTION WAS CONDUCTED IN THE AREA OF VOID FORMATIONS IN THE UNIT 4 REACTOR VESSEL UPPER HEAD REGION DURING COLD SHUTDOWN CONDITIONS WHICH OCCURRED BETWEEN OCTOBER 21 AND NOVEMBER 3, 1987. THIS INSPECTION CONSISTED OF A REVIEW OF THE CIRCUMSTANCES SURROUNDING THESE EVENTS, REVIEWS OF ASSOCIATED PROCEDURES, LOGS, AND CHARTS, AND INTERVIEWS WITH OPERATORS, TECHNICAL STAFF, AND MAINTENANCE PERSONNEL. THE PRIMARY CAUSE FOR THE VOID FORMATIONS WAS THE INTRUSION OF NITROGEN AND NITROGEN SATURATED WATER FROM THE 4C COLD LEG ACCUMULATOR VIA THE ACCUMULATOR'S LEAKING ISOLATION VALVE. ADDITIONALLY, IT HAS BEEN DETERMINED THROUGHOUT ALL VOID INSTANCES THAT THE FUEL REMAINED COVERED WITH WATER WHICH ENSURED ADEQUATE DECAY HEAT REMOVAL. ONE VIOLATION WAS IDENTIFIED. FAILURE TO ESTABLISH AND IMPLEMENT PROCEDURES.

INSPECTION NOVEMBER 16-24 (87-47): THIS ROUTINE, UNANNOUNCED INSPECTION AND SPECIAL ANNOUNCED MANAGEMENT MEETING INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; BARRIERS - PROTECTED AND VITAL AREAS; COMPENSATORY MEASURES; ACCESS CONTROL OF PERSONNEL, PACKAGES, AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; ALARM STATIONS; AND COMMUNICATIONS. ADDITIONALLY, THE INSPECTOR EVALUATED THE CIRCUMSTANCES SURROUNDING AN OFFICER LEAVING A VITAL AREA COMPENSATORY POST. A MANAGEMENT MEETING WAS HELD ON NOVEMBER 29, 1987. FOUR VIOLATIONS OF REGULATORY REQUIREMENTS WERE CONFIRMED: INADEQUATE COMPENSATORY MEASURES, FAILURE TO PROPERLY CONTROL ACCESS TO THE PROTECTED AREA, INADEQUATE LIGHTING, AND INADEQUATE SEARCH PRIOR TO REVITALIZATION.

Report Period DEC 1987

INSPECTION STATUS - (CONTINUED)

* TURKEY POINT 3 *

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1; ANSI N18.7-1972, SECTION 5.1; MAINTENANCE PROCEDURES (MPS) 0707.16 THROUGH 0707.20, FUSE INSPECTIONS PERFORMED DURING THE WEEK OF SEPTEMBER 14, 1987, REVEALED THAT NUMEROUS FUSES INSTALLED IN THE REACTOR SAFEGUARDS PROTECTION CIRCUITRY DID NOT MATCH THE PROCEDURALLY SPECIFIED FUSES IN EITHER SIZE OR TYPE. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V; NON-CONFORMANCE REPORT (NCR) C-655-87, SUBSEQUENT TO THE REPAIR OF WIRE SPlice 3IFSGS/T3122-FI475/1, INSTRUMENT LOOP FI-3-475 DID NOT RECEIVE A FUNCTIONAL TEST. SUBSEQUENTLY, THE INSTRUMENT LOOP WAS DETERMINED TO BE INOPERABLE DUE TO A WIRING DISCREPANCY. CONTRARY TO PLANT CHANGE MODIFICATION (PCM) 85-175, ENTITLED UNIT 3 AUXILIARY FEEDWATER NITROGEN STATION ADDITIONS AND RELOCATION. IN SEPTEMBER 1987, SUBSEQUENT TO SYSTEM INSTALLATION, INSPECTION AND TESTING, A CHECK VALVE REQUIRING 10.0 PSI DIFFERENTIAL TO SEAT THE DISC WAS FOUND TO BE INSTALLED ADJACENT TO PRESSURE REGULATOR 1706.
(8703 4)

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1; OFF-NORMAL OPERATING PROCEDURE 0-ONOP-048, ENTITLED OFF NORMAL CRITICAL HEAT TRACING SYSTEM TEMPERATURE, REVISION DATED JUNE 26, 1985. ON SEPTEMBER 28, 1987, IN RESPONSE TO A HEAT TRACING TROUBLE ALARM ANNUNCIATOR, A NUCLEAR OPERATOR (NO), AT THE DIRECTION OF THE UNIT 4 REACTOR CONTROL OPERATOR (RCO), MANIPULATED THE THERMOSTAT FOR HEAT TRACING CIRCUIT NUMBER 8 AND FAILED TO SUBMIT A PWO TO HAVE ELECTRICAL MAINTENANCE CHECK THE HEAT TRACING THERMOSTAT. CONTRARY TO OFF NORMAL OPERATING PROCEDURE 4-ONOP-059.3, ON OCTOBER 2, 1987, WITH UNIT 4 IN MODE 1, THE UNIT 4 RCO FAILED TO TRANSFER THE COMPARATOR CHANNEL DEFEAT SWITCH IN RESPONSE TO POWER RANGE NUCLEAR INSTRUMENT CHANNEL N-44 FAILURE. CONTRARY TO ADMINISTRATIVE PROCEDURE 0-ADM-205, ON OCTOBER 3, 1987, VALVE 344 WAS FOUND OPEN BUT NOT PROPERLY LOCKED.
(8704 4)

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:

NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: SEPTEMBER 22 - OCTOBER 25, 1987 +

INSPECTION REPORT NO: 50-250/87-44 +

Report Period DEC 1987

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

* TURKEY POINT 3 *

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=====
NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
87-028    10/15/87    11/16/87    MISSED SURVEILLANCE OF CONTROL ROD POSITIONS DUE TO PERSONNEL ERROR
87-029    10/15/87    11/16/87    WASTE GAS SYSTEM OPERATED IN CONFIGURATION NOT DESCRIBED IN THE FSAR DURING VOL CONTROL TANK
          PURGE OPER; INADEQUATE PROCEDURE
87-030    10/27/87    11/23/87    DESIGN BASIS RECONSTITUTION DISCOVERS RHR RECIRCULATION LI NOT DESIGNED TO ASSURE ADEQUATE FLOW
          FOR EACH PUMP
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1. Docket: 50-251 **OPERATING STATUS**

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>125,857.0</u>
13. Hours Reactor Critical	<u>693.4</u>	<u>4,503.2</u>	<u>85,186.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>166.6</u>
15. Hrs Generator On-Line	<u>664.9</u>	<u>4,318.9</u>	<u>82,213.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>31.2</u>
17. Gross Therm Ener (MWH)	<u>1,363,947</u>	<u>8,692,035</u>	<u>173,464,623</u>
18. Gross Elec Ener (MWH)	<u>448,566</u>	<u>2,814,916</u>	<u>55,299,824</u>
19. Net Elec Ener (MWH)	<u>426,044</u>	<u>2,636,070</u>	<u>52,321,831</u>
20. Unit Service Factor	<u>89.4</u>	<u>49.3</u>	<u>65.3</u>
21. Unit Avail Factor	<u>89.4</u>	<u>49.3</u>	<u>65.3</u>
22. Unit Cap Factor (MDC Net)	<u>86.0</u>	<u>45.2</u>	<u>63.7*</u>
23. Unit Cap Factor (DER Net)	<u>82.6</u>	<u>43.4</u>	<u>60.0</u>
24. Unit Forced Outage Rate	<u>10.6</u>	<u>50.7</u>	<u>10.8</u>
25. Forced Outage Hours	<u>79.1</u>	<u>4,441.1</u>	<u>9,580.9</u>

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

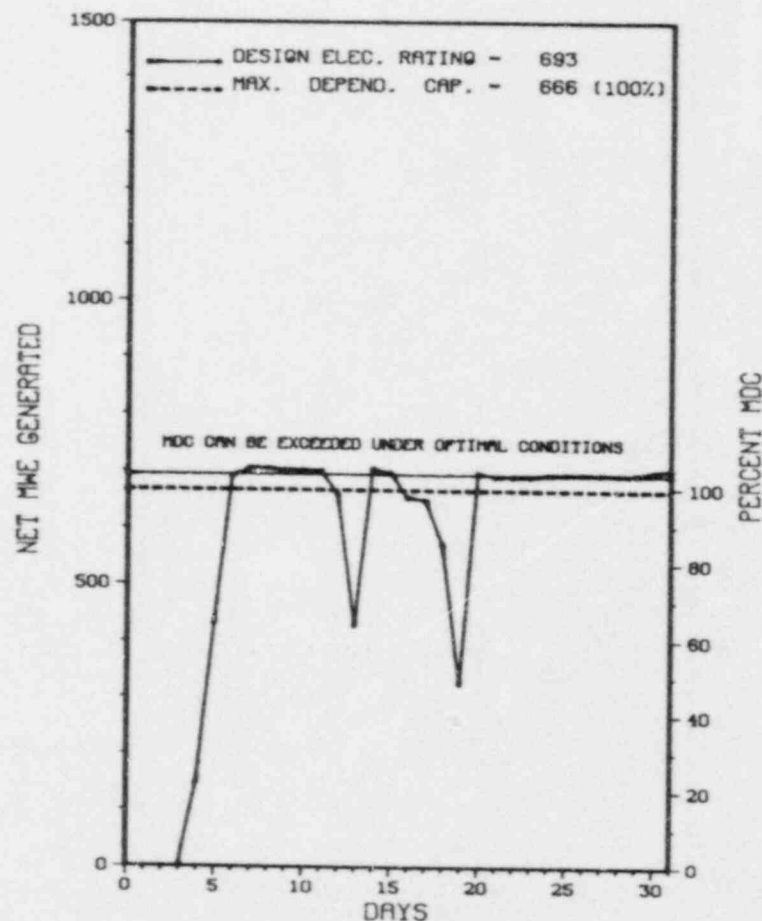
NONE

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

* TURKEY POINT 4 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TURKEY POINT 4



DECEMBER 1987

* Item calculated with a Weighted Average

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * TURKEY POINT 4 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
06	10/12/87	F	79.1	H	4		XX	VALEX	UNIT #4 REMAINED SHUTDOWN TO FACILITATE REPAIR LEAKS FOUND DURING OVERPRESSURE TESTING, TO BALANCE THE 4B REACTOR COOLANT PUMP, AND AUXILIARY FEEDWATER PUMP TESTING. THE UNIT RETURNED TO FULL POWER OPERATION.
07	12/13/87	F	0.6	A	5		HE	VALVEX	A LOAD REDUCTION WAS PERFORMED DUE TO THE UNPLANNED CLOSING OF A TURBINE INTERCEPT VALVE. DURING THE OUTAGE ADDITIONAL WORK ON A LEAKING WATER BOX COVER AND THE TEST OF THE TURBINE CONTROL VALVE TEST WAS PERFORMED AND THE UNIT RETURNED TO FULL POWER OPERATION.
08	12/19/87	F	0.0	A	5	251-67-28	CF	PUMPXX	TWO INTAKE COOLING WATER PUMPS WERE FOUND TO BE INOPERABLE AND POWER REDUCTION WAS COMMENCED. POWER WAS HELD AT 50% UNTIL REPAIRS WERE MADE. THE UNIT COMMENCED RETURN TO POWER.

 * SUMMARY *

 TURKEY POINT 4 INCURRED 1 OUTAGE AND 2 POWER REDUCTIONS IN DECEMBER 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)

* TURKEY POINT 4 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION SEPTEMBER 22 - OCTOBER 25 (87-44): THIS SPECIAL, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTION, IN THE AREAS OF THE UNAUTHORIZED DILUTION EVENT AND THE RESOLUTION OF ISSUES RAISED BY ONE OF THE LICENSEE'S MANAGEMENT-ON-SHIFT PERSONNEL. TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 4-6 (87-46): THIS SPECIAL, ANNOUNCED REACTIVE INSPECTION WAS CONDUCTED IN THE AREA OF VOID FORMATIONS IN THE UNIT 4 REACTOR VESSEL UPPER HEAD REGION DURING COLD SHUTDOWN CONDITIONS WHICH OCCURRED BETWEEN OCTOBER 21 AND NOVEMBER 3, 1987. THIS INSPECTION CONSISTED OF A REVIEW OF THE CIRCUMSTANCES SURROUNDING THESE EVENTS, REVIEWS OF ASSOCIATED PROCEDURES, LOGS, AND CHARTS, AND INTERVIEWS WITH OPERATORS, TECHNICAL STAFF, AND MAINTENANCE PERSONNEL. THE PRIMARY CAUSE FOR THE VOID FORMATIONS WAS THE INTRUSION OF NITROGEN AND NITROGEN SATURATED WATER FROM THE 4C COLD LEG ACCUMULATOR VIA THE ACCUMULATOR'S LEAKING ISOLATION VALVE. ADDITIONALLY, IT HAS BEEN DETERMINED THROUGHOUT ALL VOID INSTANCES THAT THE FUEL REMAINED COVERED WITH WATER WHICH ENSURED ADEQUATE DECAY HEAT REMOVAL. ONE VIOLATION WAS IDENTIFIED. FAILURE TO ESTABLISH AND IMPLEMENT PROCEDURES.

INSPECTION NOVEMBER 16-24 (87-47): THIS ROUTINE, UNANNOUNCED INSPECTION AND SPECIAL ANNOUNCED MANAGEMENT MEETING INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; BARRIERS - PROTECTED AND VITAL AREAS; COMPENSATORY MEASURES; ACCESS CONTROL OF PERSONNEL, PACKAGES, AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; ALARM STATIONS; AND COMMUNICATIONS. ADDITIONALLY, THE INSPECTOR EVALUATED THE CIRCUMSTANCES SURROUNDING AN OFFICER LEAVING A VITAL AREA COMPENSATORY POST. A MANAGEMENT MEETING WAS HELD ON NOVEMBER 29, 1987. FOUR VIOLATIONS OF REGULATORY REQUIREMENTS WERE CONFIRMED: INADEQUATE COMPENSATORY MEASURES, FAILURE TO PROPERLY CONTROL ACCESS TO THE PROTECTED AREA, INADEQUATE LIGHTING, AND INADEQUATE SEARCH PRIOR TO REVITALIZATION.

INSPECTION SUMMARYENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1; ANSI N18.7-1972, SECTION 5.1; MAINTENANCE PROCEDURES (MPS) 0707.16 THROUGH 0707.20, FUSE INSPECTIONS PERFORMED DURING THE WEEK OF SEPTEMBER 14, 1987, REVEALED THAT NUMEROUS FUSES INSTALLED IN THE REACTOR SAFEGUARDS PROTECTION CIRCUITRY DID NOT MATCH THE PROCEDURALLY SPECIFIED FUSES IN EITHER SIZE OR TYPE. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V; NON-CONFORMANCE REPORT (NCR) C-655-33, SUBSEQUENT TO THE REPAIR OF WIRE SPICE 3IFSGS/T3122-F1475/1, INSTRUMENT LOOP FT-3-475 DID NOT RECEIVE A FUNCTIONAL TEST. SUBSEQUENTLY, THE INSTRUMENT LOOP WAS DETERMINED TO BE INOPERABLE DUE TO A WIRING DISCREPANCY. CONTRARY TO PLANT CHANGE MODIFICATION (PCM) 85-175, ENTITLED UNIT 3 AUXILIARY FEEDWATER NITROGEN STATION ADDITIONS AND RELOCATION, IN SEPTEMBER 1987, SUBSEQUENT TO SYSTEM INSTALLATION, INSPECTION AND TESTING, A CHECK VALVE REQUIRING 10.0 PSI DIFFERENTIAL TO SEAT THE DISC WAS FOUND TO BE INSTALLED ADJACENT TO PRESSURE REGULATOR 1706.
(8703 4)

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1; OFF-NORMAL OPERATING PROCEDURE O-ONOP-048, ENTITLED OFF NORMAL CRITICAL HEAT TRACING SYSTEM TEMPERATURE, REVISION DATED JUNE 26, 1985, ON SEPTEMBER 28, 1987, IN RESPONSE TO A HEAT TRACING TROUBLE ALARM ANNUNCIATOR, A NUCLEAR OPERATOR (NO), AT THE DIRECTION OF THE UNIT 4 REACTOR CONTROL OPERATOR (RCO), MANIPULATED THE THERMOSTAT FOR HEAT TRACING CIRCUIT NUMBER 8 AND FAILED TO SUBMIT A PWO TO HAVE ELECTRICAL MAINTENANCE CHECK THE HEAT TRACING THERMOSTAT. CONTRARY TO OFF NORMAL OPERATING PROCEDURE O-ONOP-059.3, ON OCTOBER 2, 1987, WITH UNIT 4 IN MODE 1, THE UNIT 4 RCO FAILED TO TRANSFER THE COMPARATOR CHANNEL DEFEAT SWITCH IN RESPONSE TO POWER RANGE NUCLEAR INSTRUMENT CHANNEL N-44 FAILURE. CONTRARY TO ADMINISTRATIVE PROCEDURE O-ADM-205, ON OCTOBER 3, 1987, VALVE 344 WAS FOUND OPEN BUT NOT PROPERLY LOCKED.
(8704 4)

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: NOVEMBER 16-24, 1987 +

INSPECTION REPORT NO: 50-251/87-47 +

Report Period DEC 1987

REPORTS FROM LICENSEE

* TURKEY POINT 4 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
87-026    11/21/87    12/18/87    CCW PUMP 4B AUTO-START DUE TO UNANTICIPATED DROP IN HEADER PRESSURE WHEN CCW PUMP 4C WAS
          RETURNED TO SERVICE
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1. Docket: 50-271 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: G. A. WALLIN (802) 257-7711 X2272

4. Licensed Thermal Power (Mwt): 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

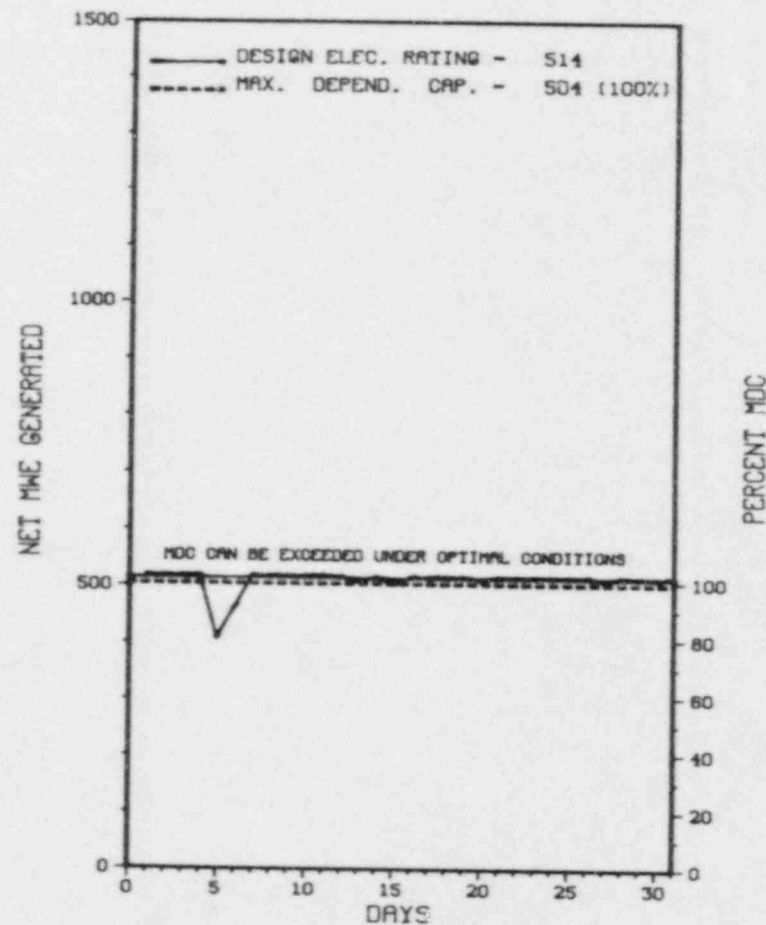
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>133,922.8</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,374.6</u>	<u>104,845.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,290.6</u>	<u>102,290.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,171,381</u>	<u>11,065,071</u>	<u>149,740,698</u>
18. Gross Elec Ener (MWH)	<u>396,092</u>	<u>3,711,110</u>	<u>49,839,944</u>
19. Net Elec Ener (MWH)	<u>380,027</u>	<u>3,536,411</u>	<u>47,295,087</u>
20. Unit Service Factor	<u>100.0</u>	<u>83.2</u>	<u>76.4</u>
21. Unit Avail Factor	<u>100.0</u>	<u>83.2</u>	<u>76.4</u>
22. Unit Cap Factor (MDC Net)	<u>101.3</u>	<u>80.1</u>	<u>70.1</u>
23. Unit Cap Factor (DER Net)	<u>99.4</u>	<u>78.5</u>	<u>68.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.2</u>	<u>6.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>86.4</u>	<u>5,593.4</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

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

 * VERMONT YANKEE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

VERMONT YANKEE 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* VERMONT YANKEE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-21	12/05/87	S	0.0	B	5		RB	CONROD	CONTROL ROD PATTERN EXCHANGE AND SURVEILLANCE TESTING.

* SUMMARY *

VERMONT YANKEE INCURRED 1 POWER REDUCTION IN DECEMBER 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)

* VERMONT YANKEE 1 *

FACILITY DATA

Report Period DEC 1987

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

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 DEC 1987

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.			
=====			

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 X VOGTLE 1 X

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-19	12/02/87	F	0.0	A	5		SB	TBG	COND TUBE LEAK. REPAIRED THE LEAK.

 * SUMMARY *

 VOGTLE 1 INCURRED 1 POWER REDUCTION IN DECEMBER DUE TO CONDENSER TUBE 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)

X VOGTLE 1 X

FACILITY DATA

Report Period DEC 1987

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 STATUS

INSPECTION SUMMARY

* INSPECTION OCTOBER 8 - NOVEMBER 20 (87-60): 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 NOVEMBER 16-20 (87-64): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSIS AND PREVIOUSLY IDENTIFIED INSPECTOR FOLLOWUP ITEMS. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PERFORM SURVEYS FOR IN-PLANT NOBLE GAS CONCENTRATION CALCULATIONS.

INSPECTION NOVEMBER 16-20 (87-65): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF QUALITY ASSURANCE IMPLEMENTING PROCEDURES, WORK PERFORMANCE AND QUALITY RECORDS FOR CONTAINMENT 1 TENDON SURVEILLANCE, BACKFILL OPERATIONS, COATINGS REPAIRS ON THE UNIT 2 CONTAINMENT DOME LINER PLATE AND TENDON RAM CALIBRATION RECORDS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION NOVEMBER 16-20 (87-66): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF WELDING AND NON-WELDING ACTIVITIES ASSOCIATED WITH CONTAINMENT SPRAY PIPING SUPPORTS (UNIT 2), PRESERVICE INSPECTION (UNIT 2), HOUSEKEEPING AND MATERIALS CONTROL (UNIT 2) WELDING ACTIVITIES ASSOCIATED WITH REACTOR HEAD VENT LINES (UNITS 1 AND 2), HVAC QUALITY CONCERNS (UNITS 1 AND 2), AND LICENSEE IDENTIFIED 50.55-(E) ITEMS (UNIT 2). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION STATUS - (CONTINUED)

ENFORCEMENT SUMMARY

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

* INADVERTENT TRIP ON 1/17/88, ENTERED 12 DAY OUTAGE TO REPLACE GENERATOR HYDROGEN SEALS

LAST IE SITE INSPECTION DATE: NOVEMBER 16-20, 1987 +

INSPECTION REPORT NO: 50-424/87-66 +

REPORTS FROM LICENSEE

PAGE 2-451

1. Docket: 50-397 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: LEONARD HUTCHISON (509) 377-2486

4. Licensed Thermal Power (Mwt): 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:

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>744.0</u>	<u>8,760.0</u>	<u>26,720.2</u>
13. Hours Reactor Critical	<u>652.0</u>	<u>6,199.4</u>	<u>19,907.1</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>340.4</u>
15. Hrs Generator On-Line	<u>636.1</u>	<u>5,981.0</u>	<u>19,141.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>381.7</u>
17. Gross Therm Ener (MWH)	<u>1,990,216</u>	<u>16,701,587</u>	<u>50,382,767</u>
18. Gross Elec Ener (MWH)	<u>673,660</u>	<u>5,597,870</u>	<u>16,817,140</u>
19. Net Elec Ener (MWH)	<u>650,610</u>	<u>5,397,981</u>	<u>16,167,952</u>
20. Unit Service Factor	<u>85.5</u>	<u>82.3</u>	<u>71.6</u>
21. Unit Avail Factor	<u>85.5</u>	<u>68.3</u>	<u>73.1</u>
22. Unit Cap Factor (MDC Net)	<u>79.9</u>	<u>56.3</u>	<u>55.3</u>
23. Unit Cap Factor (DER Net)	<u>79.5</u>	<u>56.0</u>	<u>55.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>8.7</u>	<u>7.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>569.8</u>	<u>1,645.1</u>

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

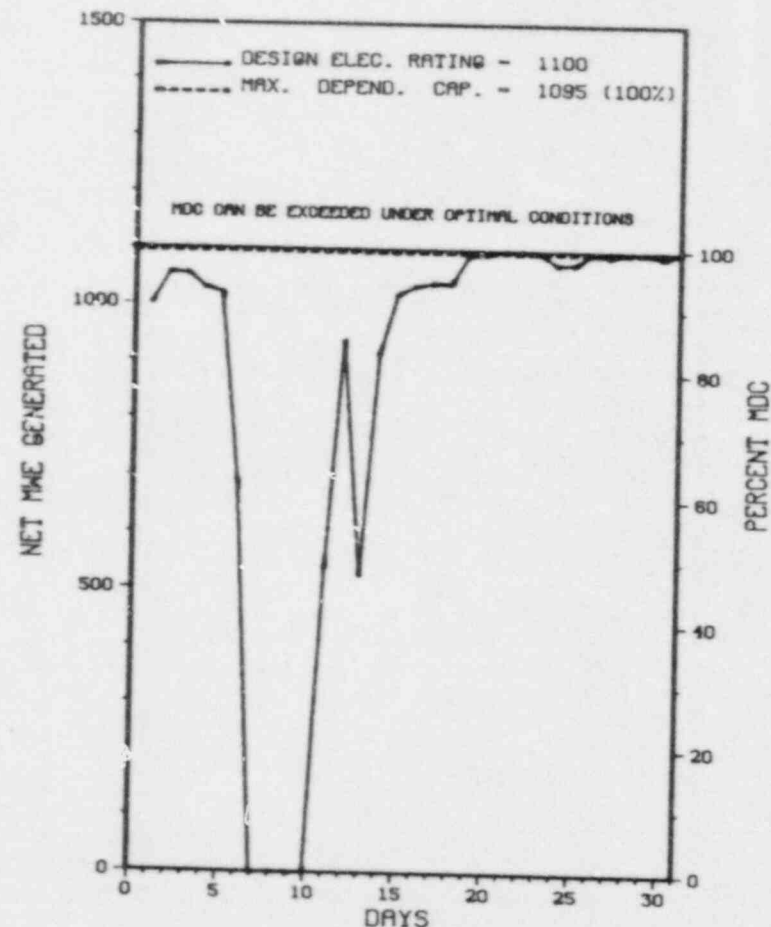
REFUELING/MAINTENANCE - 4/18/88 - 45 DAY DURATION.

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

* WASHINGTON NUCLEAR 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WASHINGTON NUCLEAR 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* WASHINGTON NUCLEAR 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
87-14	12/06/87	S	103.8	B	1			PLANT WS SHUTDOWN FOR INSPECTION OF CONDENSATE FILTER DEMINERALIZERS, REPAIR OF CFD VALVES, REPLACEMENT OF RESIN STRAINERS, REPAIR OF REACTOR BUILDING VENTILATION SUPPLY FANS AND CORRECTION OF TURBINE SIDE STEAM LEAKS
87-15	12/31/87	S	4.1	B	1			GENERATOR WAS REMOVED FROM SERVICE TO PERFORM TESTS TO DETERMINE EXTENT OF MECHANICAL BINDING OF TURBINE GOVERNOR VALVE #4.

***** WNP-2 INCURRED 2 SHUTDOWNS IN DECEMBER FOR SCHEDULED MAINTENANCE AND 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)

* WASHINGTON NUCLEAR 2 *

FACILITY DATA

Report Period DEC 1987

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.....R. DODDS
LICENSING PROJ MANAGER....R. SAMWORTH
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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON AUGUST 3-28, 1987 (REPORT NO. 50-397/87-19) AREAS INSPECTED: THE OBJECTIVE OF THIS INSPECTION WAS TO ASSESS THE OPERATIONAL READINESS OF SELECTED SAFETY SYSTEMS AT WNP-2.

RESULTS: OF THE AREAS INSPECTED, TEN VIOLATIONS OF NRC REQUIREMENTS WERE IDENTIFIED.

+ INSPECTION ON OCTOBER 1 - NOVEMBER 5, 1987 (REPORT NO. 50-397/87-27) AREAS INSPECTED: ROUTINE INSPECTION BY THE RESIDENT INSPECTOR OF CONTROL ROOM OPERATIONS, ENGINEERED SAFETY FEATURE (ESF) STATUS, SURVEILLANCE PROGRAM, MAINTENANCE PROGRAM, LICENSEE EVENT REPORTS, SPECIAL INSPECTION TOPICS, AND LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: TWO VIOLATIONS WERE IDENTIFIED: EXCEEDING TECHNICAL SPECIFICATION OVERTIME LIMITATIONS WITHOUT AUTHORIZATION, AND CONDUCTING A PLANT OPERATIONS COMMITTEE MEETING WITHOUT THE MINIMUM TECHNICAL SPECIFICATION QUORUM.

+ INSPECTION ON NOVEMBER 8 - DECEMBER 13, 1987 (REPORT NO. 50-397/87-30) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON NOVEMBER 30 - DECEMBER 18, 1987 (REPORT NO. 50-397/87-31) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON DECEMBER 14, 1987 - JANUARY 18, 1988 (REPORT NO. 50-397/87-32) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

Report Period DEC 1987

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

* WASHINGTON NUCLEAR 2 *

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE PLANT CONTINUED FULL POWER OPERATION DURING MOST OF DECEMBER. THE PLANT WAS SHUT DOWN FOR FOUR DAYS TO REPAIR STEAM LEAKS AND PERFORM OTHER CORRECTIVE MAINTENANCE.

LAST IE SITE INSPECTION DATE: 12/14/87 - 01/18/88+

INSPECTION REPORT NO: 50-397/87-32+

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-L0	09-16-87	10-16-87	SPURIOUS CONTAINMENT ISOLATION CAUSED BY TEMPERATURE MONITORING SYSTEM COMPONENT FAILURE M
87-29-L0	09-16-87	10-16-87	T.S. FIRE-RATED FLOOR PENETRATION IMPAIRED DURING DESIGN MODIFICATION DUE TO TRAINING M

=====

1. Docket: 50-382 OPERATING STATUS

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

3. Utility Contact: GEORGE MILLER (504) 467-8211

4. Licensed Thermal Power (MWt): 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>744.0</u>	<u>8,760.0</u>	<u>19,897.0</u>
13. Hours Reactor Critical	<u>682.7</u>	<u>7,224.3</u>	<u>16,104.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>676.6</u>	<u>7,087.8</u>	<u>15,814.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,224,789</u>	<u>23,097,209</u>	<u>51,460,972</u>
18. Gross Elec Ener (MWH)	<u>755,850</u>	<u>7,811,810</u>	<u>17,380,810</u>
19. Net Elec Ener (MWH)	<u>721,764</u>	<u>7,425,710</u>	<u>16,532,458</u>
20. Unit Service Factor	<u>90.9</u>	<u>80.9</u>	<u>79.5</u>
21. Unit Avail Factor	<u>90.9</u>	<u>80.9</u>	<u>79.5</u>
22. Unit Cap Factor (MDC Net)	<u>90.2</u>	<u>78.9</u>	<u>77.3</u>
23. Unit Cap Factor (DER Net)	<u>87.9</u>	<u>76.8</u>	<u>75.3</u>
24. Unit Forced Outage Rate	<u>5.8</u>	<u>9.3</u>	<u>9.9</u>
25. Forced Outage Hours	<u>41.5</u>	<u>726.3</u>	<u>1,728.8</u>

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

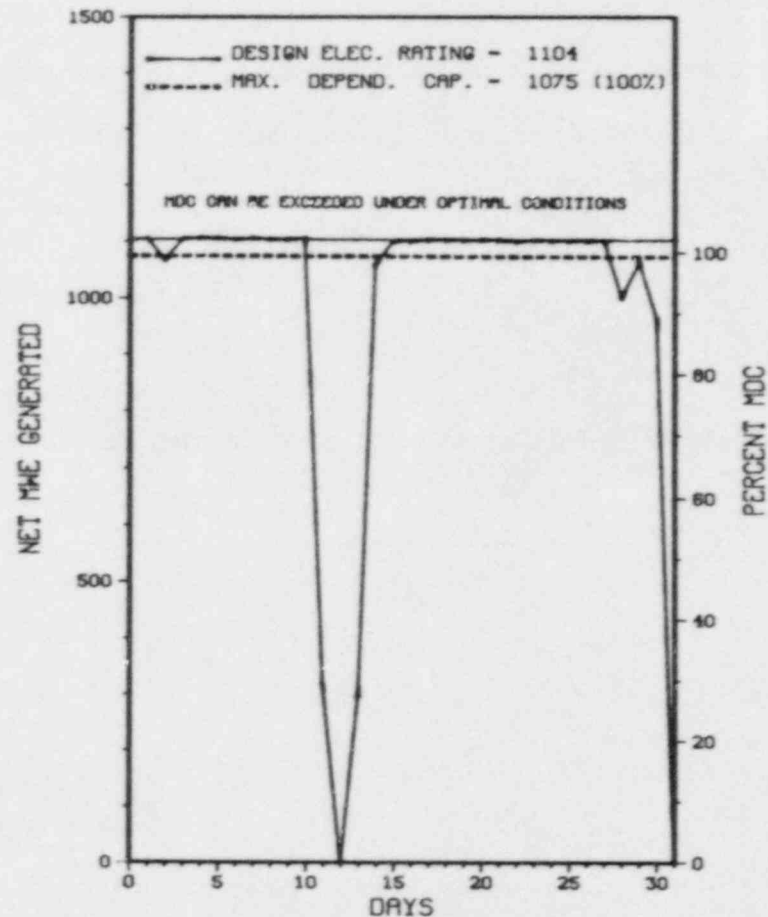
REFUELING/MAINTENANCE - 4/2/88 - 60 DAY DURATION

27. If Currently Shutdown Estimated Startup Date: 01/02/88

* WATERFORD 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WATERFORD 3



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * WATERFORD 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-11	12/11/87	F	41.5	A	3	87-028	SB	PSV	AT 90% POWER, A REACTOR TRIP OCCURRED DUE TO INADVERTENT CLOSURE OF MAIN STEAM ISOLATION VALVE #2. 87-028
87-12	12/30/87	S	25.9	B	1		AB	STR	UNIT SHUTDOWN TO CHANGE SUPPLY OIL STRAINER ON REACTOR COOLANT PUMP 2B.

 * SUMMARY *

 WATERFORD 3 INCURRED 2 OUTAGES IN DECEMBER FOR REASONS INDICATED 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)

* WATERFORD 3 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED OCT.16 - NOV.15, 1987 (87-24) ROUTINE, UNANNOUNCED INSPECTION CONSISTING OF ONSITE FOLLOWUP OF EVENTS, OPERATIONAL SAFETY VERIFICATION, MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS, LICENSEE EVENT REPORT FOLLOWUP, AND PLANT STATUS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED. THREE UNRESOLVED ITEMS WERE IDENTIFIED.

INSPECTION CONDUCTED NOV.16 - DEC.15, 1987 (87-25) ROUTINE, UNANNOUNCED INSPECTION CONSISTING OF FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS, MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, ENGINEERED SAFETY FEATURE SYSTEM WALKDOWN, COLD WEATHER PREPARATIONS INSPECTION, ONSITE FOLLOWUP OF EVENTS, OPERATIONAL SAFETY VERIFICATION, LICENSEE EVENT REPORT FOLLOWUP, AND PLANT STATUS. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. ONE UNRESOLVED ITEM WAS IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT FULL POWER

LAST IE SITE INSPECTION DATE: DEC.15, 1987

INSPECTION REPORT NO: 50-382/87-25

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-024	09/11/87	10/12/87	DIESEL FUEL OIL TANK VOLUME PROBLEM
87-025	10/05/87	11/04/87	MISSED SAMPLES DUE TO INADEQUATE ADMIN CONTROLS

1. Docket: 50-482 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>20,399.7</u>
13. Hours Reactor Critical	<u>.0</u>	<u>6,152.6</u>	<u>15,466.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>79.1</u>	<u>250.3</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>6,013.0</u>	<u>15,203.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>19.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>19,681,012</u>	<u>49,426,384</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>6,822,521</u>	<u>17,188,891</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>6,504,145</u>	<u>16,412,708</u>
20. Unit Service Factor	<u>.0</u>	<u>68.6</u>	<u>74.5</u>
21. Unit Avail Factor	<u>.0</u>	<u>68.6</u>	<u>74.6</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>65.8</u>	<u>71.3</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>63.5</u>	<u>68.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>7.5</u>	<u>5.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>485.8</u>	<u>876.3</u>

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

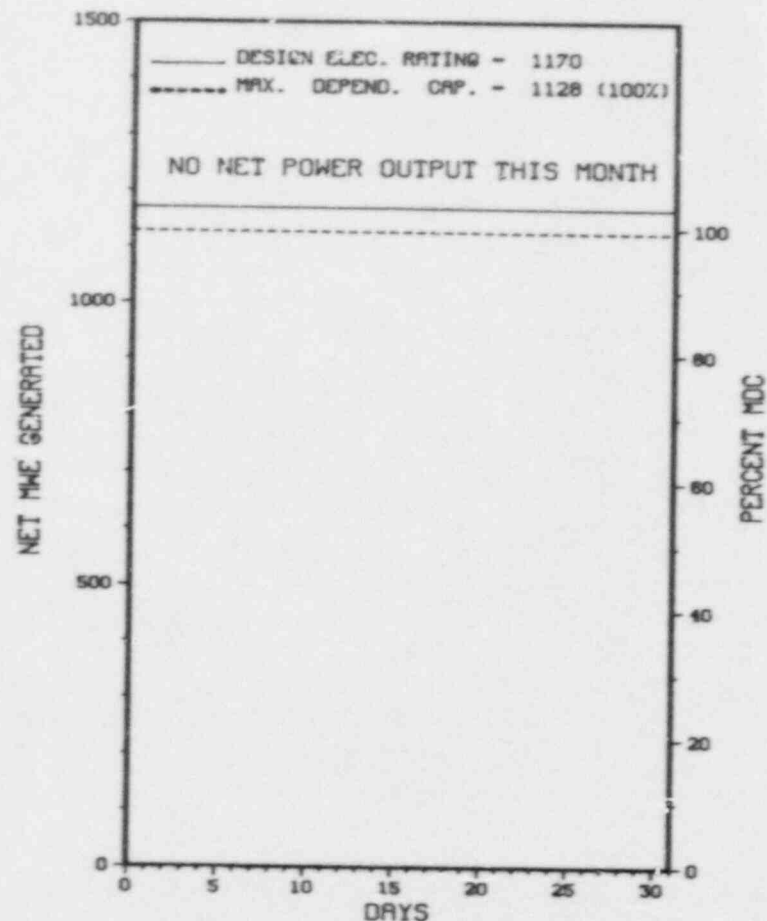
NONE

27. If Currently Shutdown Estimated Startup Date: 01/05/88

 * WOLF CREEK 1 *

AVERAGE DAILY POWER (MWe) PLOT

WOLF CREEK 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* WOLF CREEK 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
15	09/27/87	S	744.0	C	4			REFUELING OUTAGE.

***** WOLF CREEK REMAINED SHUTDOWN FOR SCHEDULED REFUELING OUTAGE.

* SUMMARY *

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)

* WOLF CREEK 1 *

FACILITY DATA

Report Period DEC 1987

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED OCT.1-25, 1987 (87-27) NONROUTINE, UNANNOUNCED INSPECTION INCLUDING PLANT STATUS, OPERATIONAL SAFETY VERIFICATION, MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTEN-ANCE OBSERVATION, ONSITE EVENT FOLLOWUP, PHYSICAL SECURITY VERIFICATION, RADIOLOGICAL PROTECTION, REFUELING ACTIVITIES, AND ONSITE FOLLOWUP OF REPORTABLE EVENTS WHICH OCCURRED BETWEEN OCT.10 AND 15, 1987. WITHIN THE AREAS INSPECTED, SIX UNRESOLVED ITEMS WERE IDENTIFIED. FOUR OPEN ITEMS WERE ALSO IDENTIFIED.

INSPECTION CONDUCTED OCT.26-30, 1987 (87-28) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIATION PROTECTION ACTIVITIES DURING THE SECOND REFUELING OUTAGE. WITHIN THE AREAS INSPECTED ONE VIOLATION AND NO DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED OCT.26-30, 1987 (87-29) ROUTINE, UNANNOUNCED INSPECTION OF DESIGN CHANGES AND MODIFICATIONS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED OCT.31 - NOV.18, 1987 (87-31) ROUTINE, UNANNOUNCED INSPECTION INCLUDING ONSITE EVENT FOLLOWUP, REVIEW OF LICENSEE EVENT REPORT, PHYSICAL SECURITY VERIFICATION, RADIOLOGICAL PROTECTION, AND OPERATIONAL SAFETY VERIFICATION. WITHIN THE AREAS INSPECTED, ONE POTENTIAL VIOLATION WAS IDENTIFIED.

INSPECTION CONDUCTED NOV.16-20, 1987 (87-34) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S LOCKS AND KEYS, PHYSICAL BARRIERS - PA, LIGHTING, ASSESSMENT AIDS, ACCESS CONTROL - PACKAGES, DETECTION AIDS - PA, AND SECURITY SYSTEMS POWER SUPPLY. WITHIN THE

Report Period DEC 1987

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

* WOLF CREEK 1 *

INSPECTION SUMMARY

AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

INSPECTION CONDUCTED NOV.16-20, 1987 (87-35) ROUTINE, ANNOUNCED INSPECTION OF NOTIFICATIONS AND COMMUNICATIONS, CHANGES TO THE EMERGENCY PREPAREDNESS PROGRAM, AND OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

PLANT STATUS:

LAST IE SITE INSPECTION DATE: NOV.20, 1987

INSPECTION REPORT NO: 50-482/87-35

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: 50-029 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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): 7440

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>744.0</u>	<u>8,760.0</u>	<u>237,765.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>7,248.2</u>	<u>191,112.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>7,100.7</u>	<u>186,081.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>445,147</u>	<u>4,031,079</u>	<u>101,613,025</u>
18. Gross Elec Ener (MWH)	<u>135,170</u>	<u>1,215,422</u>	<u>30,784,745</u>
19. Net Elec Ener (MWH)	<u>126,704</u>	<u>1,135,611</u>	<u>28,804,544</u>
20. Unit Service Factor	<u>100.0</u>	<u>81.1</u>	<u>78.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>81.1</u>	<u>78.3</u>
22. Unit Cap Factor (MDC Net)	<u>102.0</u>	<u>77.6</u>	<u>74.3*</u>
23. Unit Cap Factor (DER Net)	<u>97.3</u>	<u>74.1</u>	<u>70.8*</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.9</u>	<u>5.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>140.1</u>	<u>8,903.9</u>

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

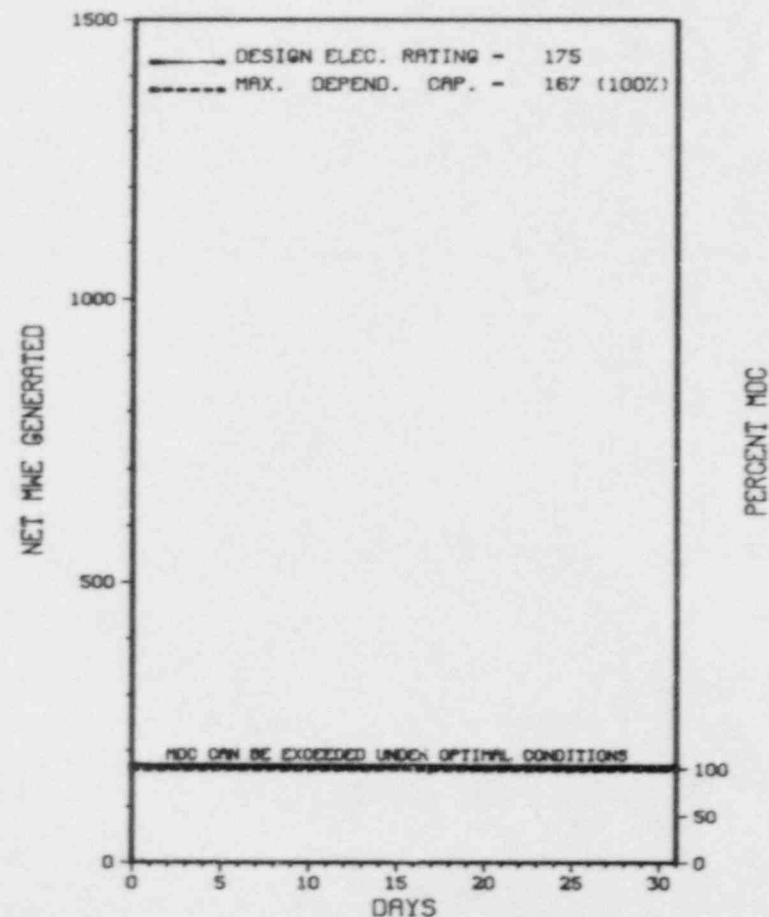
NONE

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

* YANKEE-ROWE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

YANKEE-ROWE 1



DECEMBER 1987

* Item calculated with a Weighted Average

PAGE 2-464

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* YANKEE-ROWE 1 *

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

* SUMMARY *

YANKEE ROWE OPERATED ROUTINELY IN DECEMBER 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)

* YANKEE-ROWE 1 *

F A C I L I T Y D A T A

Report Period DEC 1987

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 GEHER...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 DEC 1987

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

* YANKEE-ROWE 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

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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: 50-295 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>122,736.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>6,877.3</u>	<u>86,085.4</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,621.8</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>6,482.4</u>	<u>83,540.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,224,765</u>	<u>18,764,069</u>	<u>241,226,327</u>
18. Gross Elec Ener (MWH)	<u>751,884</u>	<u>6,345,552</u>	<u>77,215,609</u>
19. Net Elec Ener (MWH)	<u>722,116</u>	<u>6,058,385</u>	<u>73,372,393</u>
20. Unit Service Factor	<u>100.0</u>	<u>74.0</u>	<u>68.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>74.0</u>	<u>68.1</u>
22. Unit Cap Factor (MDC Net)	<u>93.3</u>	<u>66.5</u>	<u>57.5</u>
23. Unit Cap Factor (DER Net)	<u>93.3</u>	<u>66.5</u>	<u>57.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>12.8</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>11,668.2</u>

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

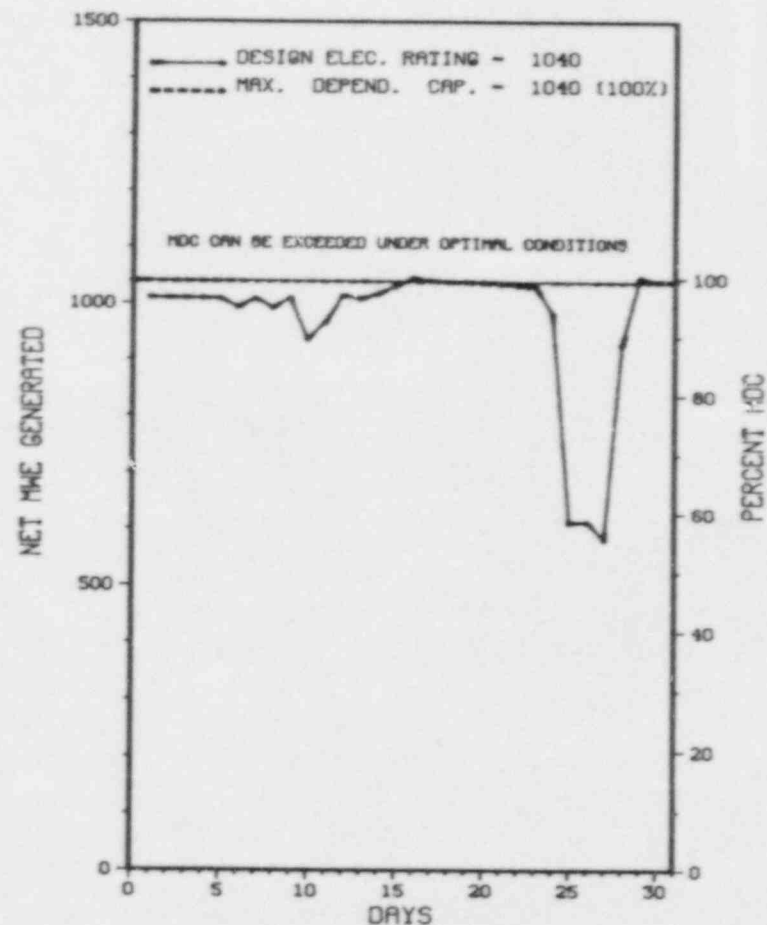
REFUELING OUTAGE - FEBRUARY 25, 1988

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

* Z I O N 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 1



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

 * ZION 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
5	12/24/87	S	0.0	H	5			REDUCED LOAD TO 550 MWE PER LOAD DISPATCHER

***** ZION 1 EXPERIENCED 1 POWER REDUCTION IN DECEMBER FOR REASON STATED ABOVE.
 * SUMMARY *

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
	& Licence Examination		9-Other
			Exhibit F & H
			Instructions for
			Preparation of
			Data Entry Sheet
			Licensee Event Report
			(LER) File (NUREG-0161)

* ZION 1 *

FACILITY DATA

Report Period DEC 1987

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS
COUNTY.....LAKE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...40 MI N OF
CHICAGO, ILL
TYPE OF REACTOR.....PHR
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

INSPECTION STATUS

INSPECTION SUMMARY

MEETING ON OCTOBER 30, 1987 (87035; 87036): AN ENFORCEMENT CONFERENCE CONDUCTED TO DISCUSS CONCERNS ASSOCIATED WITH REACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVE TESTING.

INSPECTION ON OCTOBER 19-23, 1987 (87030; 87031): SPECIAL, ANNOUNCED INSPECTION OF BALANCE OF PLANT (FEEDWATER SYSTEM) IN ACCORDANCE WITH TI 2515/83, "BALANCE OF PLANT TRIAL INSPECTION PROGRAM." NO ITEMS OF CONCERN WERE IDENTIFIED.

INSPECTION FROM OCTOBER 8 THROUGH NOVEMBER 19, 1987 (87031; 87032): ROUTINE, UNANNOUNCED RESIDENT INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; SUMMARY OF OPERATIONS; OPERATIONAL SAFETY VERIFICATION AND ENGINEERED SAFETY FEATURES (ESF) SYSTEM WALKDOWN; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; AND TRAINING. OF THE FIVE AREAS INSPECTED, NO VIOLATIONS OR DEFICIENCIES WERE IDENTIFIED.

INSPECTION ON AUGUST 6 THROUGH NOVEMBER 18, 1987 (87025; 87026): SPECIAL INSPECTION PERTAINING TO A NAMED INDIVIDUAL ALLEGEDLY BEING ONSITE UNDER THE INFLUENCE OF DRUGS ON JULY 26, 1987. THE ALLEGATION WAS NOT SUBSTANTIATED.

INSPECTION ON SEPTEMBER 1 THROUGH NOVEMBER 18, 1987 (87023; 87024): SPECIAL INSPECTION PERTAINING TO ALLEGED INADEQUATE PRE-EMPLOYMENT SCREENING IN 1982 FOR A NUCLEAR PLANT EMPLOYEE AT THE ZION NUCLEAR GENERATING STATION. THE ALLEGATION WAS NOT SUBSTANTIATED. THE INSPECTION SHOWED THAT PRE-EMPLOYMENT SCREENING REQUIREMENTS IDENTIFIED IN THE LICENSEE'S SECURITY PLAN HAD BEEN COMPLETED.

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 16-20, 1987 (87033; 87034) SECURITY PLAN/IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; SECURITY SYSTEM POWER SUPPLY; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; ALARM STATIONS; COMMUNICATIONS; TRAINING AND QUALIFICATION; SAFEGUARDS CONTINGENCY PLAN; AND PROTECTION OF SAFEGUARDS INFORMATION. THE LICENSEE WAS DETERMINED TO BE IN COMPLIANCE WITH NRC REQUIREMENTS IN ALL 23 INSPECTED AREAS, WHICH IS INDICATIVE OF AN EXCELLENT SECURITY PROGRAM.

INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87023; 87023; 87027; 87028): SPECIAL, ANNOUNCED CLOSET INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT OPERATED FOR THE ENTIRE PERIOD IN MODE 1 AT POWER LEVELS UP TO 100% POWER.

LAST IE SITE INSPECTION DATE: 02/22/88

INSPECTION REPORT NO: 88005

Report Period DEC 1987

REPORTS FROM LICENSEE

* ZION 1 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
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87-16     113087    123087    INOPERABLE CONTAINMENT ISOLATION VALVE
=====
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1. Docket: 50-304 O P E R A T I N G S T A T U S

2. Reporting Period: 12/01/87 Outage + On-line Hrs: 744.0

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>744.0</u>	<u>8,760.0</u>	<u>116,449.0</u>
13. Hours Reactor Critical	<u>744.0</u>	<u>5,569.7</u>	<u>84,772.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>226.1</u>
15. Hrs Generator On-Line	<u>744.0</u>	<u>5,384.5</u>	<u>82,364.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,268,607</u>	<u>16,057,971</u>	<u>244,693,767</u>
18. Gross Elec Ener (MWH)	<u>762,486</u>	<u>5,366,832</u>	<u>77,342,133</u>
19. Net Elec Ener (MWH)	<u>732,478</u>	<u>5,114,145</u>	<u>73,625,820</u>
20. Unit Service Factor	<u>100.0</u>	<u>61.5</u>	<u>70.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>61.5</u>	<u>76.7</u>
22. Unit Cap Factor (MDC Net)	<u>94.7</u>	<u>56.1</u>	<u>60.8</u>
23. Unit Cap Factor (DER Net)	<u>94.7</u>	<u>56.1</u>	<u>60.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.4</u>	<u>14.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>133.9</u>	<u>13,795.9</u>

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

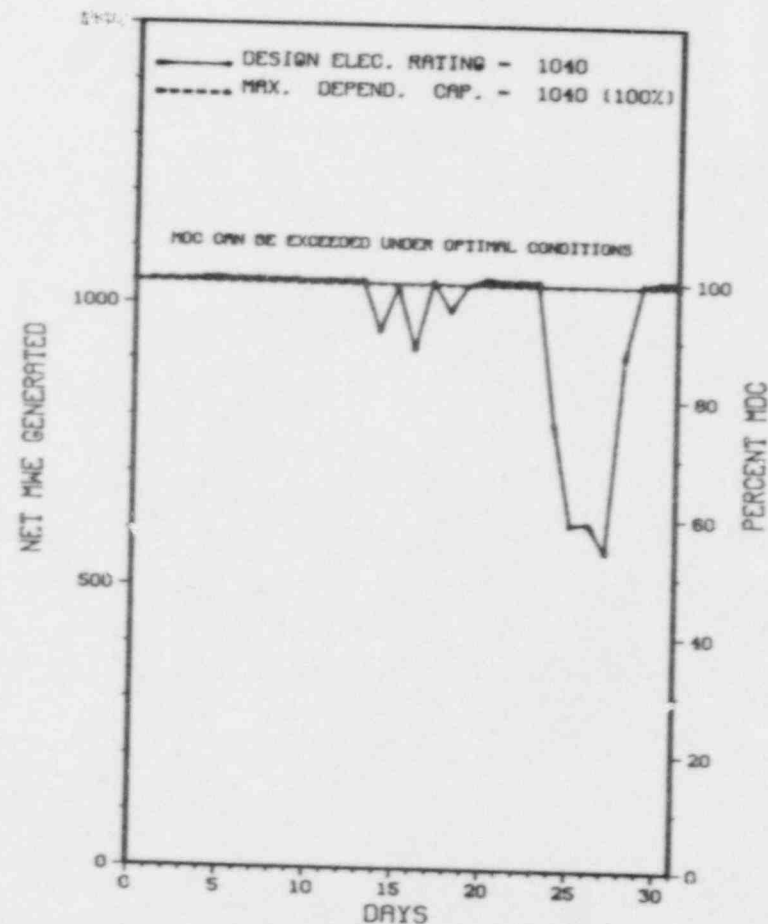
NONE

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

* ZION 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 2



DECEMBER 1987

Report Period DEC 1987

UNIT SHUTDOWNS / REDUCTIONS

* ZION 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
3	12/24/87	S	0.0	H	5			REDUCED LOAD TO 550 MWE FOR LOAD DISPATCHER

***** ZION 2 EXPERIENCED 1 POWER REDUCTION IN DECEMBER FOR REASON STATED ABOVE.
* 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)

* ZION 2 *

FACILITY DATA

Report Period DEC 1937

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.....KAUKEGAN 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

MEETING ON OCTOBER 30, 1987 (87035; 87036): AN ENFORCEMENT CONFERENCE CONDUCTED TO DISCUSS CONCERNS ASSOCIATED WITH REACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVE TESTING.

INSPECTION ON OCTOBER 19-23, 1987 (87030; 87031): SPECIAL, ANNOUNCED INSPECTION OF BALANCE OF PLANT (FEEDWATER SYSTEM) IN ACCORDANCE WITH TI 2515/83, "BALANCE OF PLANT TRIAL INSPECTION PROGRAM." NO ITEMS OF CONCERN WERE IDENTIFIED.

INSPECTION FROM OCTOBER 8 THROUGH NOVEMBER 19, 1987 (87031; 87032): ROUTINE, UNANNOUNCED RESIDENT INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; SUMMARY OF OPERATIONS; OPERATIONAL SAFETY VERIFICATION AND ENGINEERED SAFETY FEATURES (ESF) SYSTEM WALKDOWN; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; AND TRAINING. OF THE FIVE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON AUGUST 6 THROUGH NOVEMBER 18, 1987 (87025; 87026): SPECIAL INSPECTION PERTAINING TO A NAMED INDIVIDUAL ALLEGEDLY BEING ONSITE UNDER THE INFLUENCE OF DRUGS ON JULY 26, 1987. THE ALLEGATION WAS NOT SUBSTANTIATED.

INSPECTION ON SEPTEMBER 1 THROUGH NOVEMBER 18, 1987 (87023; 87024): SPECIAL INSPECTION PERTAINING TO ALLEGED INADEQUATE PRE-EMPLOYMENT SCREENING IN 1982 FOR A NUCLEAR PLANT EMPLOYEE AT THE ZION NUCLEAR GENERATING STATION. THE ALLEGATION WAS NOT SUBSTANTIATED. THE INSPECTION SHOWED THAT PRE-EMPLOYMENT SCREENING REQUIREMENTS IDENTIFIED IN THE LICENSEE'S SECURITY PLAN HAD BEEN COMPLETED.

INSPECTION SUMMARY

INSPECTION ON NOVEMBER 16-20, 1987 (87033; 87034): SECURITY PLAN/IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; SECURITY SYSTEM POWER SUPPLY; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; ALARM STATIONS; COMMUNICATIONS; TRAINING AND QUALIFICATION; SAFEGUARDS CONTINGENCY PLAN; AND PROTECTION OF SAFEGUARDS INFORMATION. THE LICENSEE WAS DETERMINED TO BE IN COMPLIANCE WITH NRC REQUIREMENTS IN ALL 23 INSPECTED AREAS, WHICH IS INDICATIVE OF AN EXCELLENT SECURITY PROGRAM.

INSPECTION ON SEPTEMBER 15-17, 21-23, 19, 30; OCTOBER 1, 2, 5-8, 19 (87031; 87030; 87028; 87028; 87023; 87023; 87027; 87028): SPECIAL, ANNOUNCED CLOSEOUT INSPECTION BY TWO REGIONAL INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS IN THE AREA OF PROCUREMENT. ALL 40 PREVIOUSLY IDENTIFIED INSPECTION FINDINGS WERE CLOSED.

INSPECTION ON OCTOBER 26-30 AND NOVEMBER 2, 1987 (87008; 87034; 87033): INCLUDED A REVIEW OF THE LICENSEE'S ACTION ON PREVIOUS INSPECTION FINDINGS; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; ACCESS CONTROL - PERSONNEL, PACKAGES AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS; PERSONNEL TRAINING AND QUALIFICATIONS - GENERAL REQUIREMENTS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW AND SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED, EXCEPT AS NOTED BELOW: ACCESS CONTROL - PERSONNEL: SOME SECURITY RELATED BADGES/KEY CARDS WERE NOT CONTROLLED AS REQUIRED BY THE SECURITY PLAN.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT OPERATED AT POWER LEVELS UP TO 100% UNTIL OCTOBER 2, 1987, WHEN THE UNIT WAS SHUT DOWN TO REPAIR A PACKING LEAKS ON BOTH PRESSURIZER SPRAY VALVES. FOLLOWING OCTOBER 6, 1987, THE UNIT WAS HOLDING AT 50% POWER FOR STEAM GENERATOR CHEMISTRY AT THE END OF THE PERIOD.

LAST IE SITE INSPECTION DATE: 02/22/88

INSPECTION REPORT NO: A8006

Report Period DEC 1987

REPORTS FROM LICENSEE

* ZION 2 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
87-09     111887    121887    MISSED TECH SPEC SURVEILLANCE CAUSED BY FAILURE TO PROMPTLY NOTIFY CONTROL ROOM OF PROCEDURE
          CHANGE
=====
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SECTION 3

APPENDIX

***** * PRESSURIZED* * WATER * * REACTORS * *****							STATUS OF SPENT FUEL STORAGE CAPABILITY		
(a)							(b)		
FACILITY	CORE SIZE (NO. OF ASSEMBLIES)	PRESENT AUTH. STORAGE POOL CAP. (FUEL ASSEMBLIES)	NO. OF ASSEMBLIES REMAINING STORAGE CAPABILITY (NO. OF ASSEMBLIES)	REMAINING CAPACITY IF PENDING REQUEST APPROVED (NO. OF ASSEMBLIES)	NEXT REFUEL SCHED. DATE	WILL FILL PRESENT AUTH. CAPACITY			
*****	*****	*****	*****	*****	*****	*****			
ARKANSAS 1	177	968	423	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				
BYRON 2	193	1050	0	1050	N/S	1995			
CALLAWAY	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	1117	03-88	1991			
FORT CALHOUN 1	133	729	393	336	10-87	1994			
GINNA	121	1016	420	596	09-88	1996			
HADDAM NECK	157	1168	653	515	02-88	1993			
HARRIS 1	157		0		07-87	1996			
INDIAN POINT 1 (d)	0	288	160	128	N/S				
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(1)	874	438(1)(n)	10-87	1993			
OCONEE 2	177				02-89	1991			
OCONEE 3	177	875	513	362	02-88	1991			
PALISADES	204	798	477	321	07-88	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			

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* PRESSURIZED * STATUS OF SPENT FUEL STORAGE CAPABILITY

* WATER *
* REACTORS *

REACTORS *****	(a) CORE SIZE (NO. OF ASSEMBLIES) *****	PRES. AUTH. STORAGE POOL CAP. (FUEL ASSEMBLIES) *****	NO. OF ASSEMBLIES STORED (NO. OF ASSEMBLIES) *****	REMAINING CAPACITY IF PENDING REQUEST APPROVED (NO. OF ASSEMBLIES) *****	REMAINING CAPACITY IF PENDING REQUEST APPROVED (NO. OF ASSEMBLIES) *****	NEXT REFUEL SCHED. DATE *****	(b) WILL FILL PRESENT AUTH. CAPACITY *****
ROBINSON 2	157	541	274	266(e)	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
SUMMER 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(d)	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						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.

N/S = Not Scheduled

* BOILING * STATUS OF SPENT FUEL STORAGE CAPABILITY

* WATER *

* REACTORS *

FACILITY *****	(a) CORE SIZE (NO. OF ASSEMBLIES) *****	PRESENT AUTH. STORAGE POOL CAP. (FUEL ASSEMBLIES) *****	NO. OF ASSEMBLIES REMAINING CAPACITY STORED (NO. OF ASSEMBLIES) *****	REMAINING CAPACITY IF PENDING REQUEST APPROVED (NO. OF ASSEMBLIES) *****	NEXT REFUEL SCHED. DATE *****	(b) WILL FILL PRESENT AUTH. CAPACITY *****
	BIG ROCK POINT 1	84	441	212	229	04-88
BROWNS FERRY 1	764	3471	1288	2183	N/S	1993
BROWNS FERRY 2	764	3471	1161	2310(m)	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	560	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

* BOILING * STATUS OF SPENT FUEL STORAGE CAPABILITY

* WATER *

* REACTORS *

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 AUTH. CAPACITY	PRESENT CAPACITY
*****	*****	*****	*****	*****	*****	*****	*****	*****
MONTICELLO	484	2237	822	1415		12-87	1999	
NINE MILE POINT 1	532	2776	1377	1399	1788	03-88	1996	
NINE MILE POINT 2						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						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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N/S = Not Scheduled

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(INCLUDES BOTH LICENSED
AND NON-LICENSED UNITS)

REACTOR YEARS OF EXPERIENCE

	YEARS	1ST ELEC GENERATE	UNIT

* LICENSED *	13.42	08/01/74	ARKANSAS 1
* OPERATING *	.38	08/17/87	BEAVER VALLEY 2
* ELECTRICAL *	14.21	10/15/73	BROWNS FERRY 1
* PRODUCING *	11.07	12/04/76	BRUNSWICK 1
* UNITS *	.90	02/06/87	BYRON 2
*****	11.07	12/07/76	CALVERT CLIFFS 2
	.69	04/24/87	CLINTON 1
	13.65	05/10/74	COOPER STATION
	3.14	11/11/84	DIABLO CANYON 1
	16.45	07/22/71	DRESDEN 3
	6.60	05/25/81	FARLEY 2
	14.35	08/25/73	FORT CALHOUN 1
	3.20	10/20/84	GRAND GULF 1
	13.14	11/11/74	HATCH 1
	14.52	06/26/73	INDIAN POINT 2
	5.33	09/04/82	LASALLE 1
	15.15	11/08/72	MAINE YANKEE
	17.09	11/29/70	MILLSTONE 1
	16.83	03/05/71	MONTICELLO
	9.71	04/17/78	NORTH ANNA 1
	14.07	12/05/73	OCONEE 2
	16.00	12/31/71	PALISADES
	.09	11/28/87	PALO VERDE 3
	1.03	12/19/86	PERRY 1
	15.41	08/02/72	POINT BEACH 2
	15.72	04/12/72	QUAD CITIES 1
	2.08	12/03/85	RIVER BEND 1
	6.58	06/03/81	SALEM 2
	4.27	09/25/83	SAN ONOFRE 3
	11.65	05/07/76	ST LUCIE 1
	15.49	07/04/72	SURRY 1
	3.50	07/03/84	SUSQUEHANNA 2
	15.16	11/02/72	TURKEY POINT 3
	.77	03/27/87	VOGTLE 1
	2.55	06/12/85	WOLF CREEK 1
	14.02	12/26/73	ZION 2

TOTAL 1059.06 YRS

	YEARS	1ST ELEC GENERATE	UNIT
	9.02	12/26/78	ARKANSAS 2
	25.07	12/08/62	BIG ROCK POINT 1
	13.34	08/28/74	BROWNS FERRY 2
	12.68	04/29/75	BRUNSWICK 2
	3.19	10/24/84	CALLAWAY 1
	2.94	01/22/85	CATAWBA 1
	12.89	02/10/75	COOK 1
	10.92	01/30/77	CRYSTAL RIVER 3
	2.20	10/20/85	DIABLO CANYON 2
	13.62	05/19/74	DUANE ARNOLD
	1.28	09/21/86	FERMI 2
	11.06	12/11/76	FORT ST VRAIN
	20.40	08/07/67	HADDAM NECK
	9.28	09/22/78	HATCH 2
	11.68	04/27/76	INDIAN POINT 3
	3.70	04/20/84	LASALLE 2
	6.51	06/30/81	MCGUIRE 1
	12.15	11/09/75	MILLSTONE 2
	18.14	11/09/69	NINE MILE POINT 1
	7.35	08/25/80	NORTH ANNA 2
	13.33	09/01/74	OCONEE 3
	2.56	06/10/85	PALO VERDE 1
	13.87	02/18/74	PEACH BOTTOM 2
	15.45	07/19/72	PILGRIM 1
	14.08	12/04/73	PRAIRIE ISLAND 1
	15.61	05/23/72	QUAD CITIES 2
	17.26	09/26/70	ROBINSON 2
	20.46	07/16/67	SAN ONOFRE 1
	7.44	07/22/80	SEQUOYAH 1
	4.55	06/13/83	ST LUCIE 2
	14.81	03/10/73	SURRY 2
	13.54	06/19/74	THREE MILE ISLAND 1
	14.53	06/21/73	TURKEY POINT 4
	3.60	05/27/84	WASHINGTON NUCLEAR 2
	27.14	11/10/60	YANKEE-ROWE 1

	YEARS	1ST ELEC GENERATE	UNIT
	11.55	06/14/76	BEAVER VALLEY 1
	.47	07/12/87	BRAIDWOOD 1
	11.30	09/12/76	BROWNS FERRY 3
	2.84	03/01/85	BYRON 1
	12.99	01/03/75	CALVERT CLIFFS 1
	1.62	05/18/86	CATAWBA 2
	9.78	03/22/78	COOK 2
	10.34	08/28/77	DAVIS-BESSE 1
	17.72	04/13/70	DRESDEN 2
	10.37	08/18/77	FARLEY 1
	12.91	02/01/75	FITZPATRICK
	18.08	12/02/69	GINNA
	.95	01/19/87	HARRIS 1
	1.42	08/01/86	HOPE CREEK 1
	13.73	04/08/74	KEWAUNEE
	2.72	04/13/85	LIMERICK 1
	4.61	05/23/83	MCGUIRE 2
	1.88	02/12/86	MILLSTONE 3
	.40	08/08/87	NINE MILE POINT 2
	14.66	05/06/73	OCONEE 1
	18.27	09/23/69	OYSTER CREEK 1
	1.62	05/20/86	PALO VERDE 2
	13.33	09/01/74	PEACH BOTTOM 3
	17.15	11/06/70	PGINT BEACH 1
	13.03	12/21/74	PRAIRIE ISLAND 2
	13.22	10/13/74	RANCHO SECO 1
	11.02	12/25/76	SALEM 1
	5.28	09/20/82	SAN ONOFRE 2
	6.02	12/23/81	SEQUOYAH 2
	5.13	11/16/82	SUMMER 1
	5.13	11/16/82	SUSQUEHANNA 1
	12.02	12/23/75	TROJAN
	15.28	09/20/72	VERMONT YANKEE 1
	2.79	03/18/85	WATERFORD 3
	14.51	06/28/73	ZION 1

	YEARS	1ST ELEC GENERATE	SHUTDOWN DATE	UNIT

* PERMANENTLY *	3.80	08/14/64	06/01/68	BONUS
* OR *	18.54	04/15/60	10/31/78	DRESDEN 1
* INDEFINITELY *	6.32	08/05/66	11/29/72	FERMI 1
* SHUTDOWN *	13.21	04/18/63	07/02/76	HUMBOLDT BAY
* UNITS *	19.01	04/26/68	04/30/87	LA CROSSE
*****	7.76	01/27/67	11/01/74	PEACH BOTTOM 1
	.93	04/21/78	03/28/79	THREE MILE ISLAND 2

TOTAL 93.78 YRS

	YEARS	1ST ELEC GENERATE	SHUTDOWN DATE	UNIT
	3.04	12/18/63	01/01/67	CVTR
	4.44	08/24/63	02/01/68	ELK RIVER
	1.26	05/29/63	09/01/64	HALLAM
	12.12	09/16/62	10/31/74	INDIAN POINT 1
	1.19	07/25/66	10/01/67	PAT'FINDER
	2.16	11/04/63	01/01/66	PIQUA

 * RESEARCH *
 * REACTORS *

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	NTA	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
COLORADO	SANTA BARBARA	UNIVERSITY OF CALIFORNIA, SANTA BARBARA	L-77	50-433	R-124	12-03-74	0.01
	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 *

NON-POWER REACTORS IN THE U. S.

STATE	CITY	LICENSEE	REACTOR TYPE	DOCKET	LICENSE NUMBER	DATE OL 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 II	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 - PHYSICS 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

 * RESEARCH *
 * REACTORS *

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	VIRGINIA POLYTECHNIC INSTITUTE	UTR-10	50-124	R-62	12-18-59	100.0
	CHARLOTTESVILLE	UNIVERSITY OF VIRGINIA	CAVALIER	50-396	R-123	09-24-74	0.1
	CHARLOTTESVILLE	UNIVERSITY OF VIRGINIA	POOL	50-062	R-66	06-27-60	2000.0
	LYNCHBURG	BABCOCK & WILCOX COMPANY	LPR	50-099	R-47	09-05-58	1000.0
WASHINGTON	PULLMAN	WASHINGTON STATE UNIVERSITY	TRIGA	50-027	R-76	03-06-61	1000.0
	SEATTLE	UNIVERSITY OF WASHINGTON	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 * *****							
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 * *****							
NEW YORK	TROY	RENSSELAER POLYTECHNIC INSTITUTE		50-225	CX-22	07-03-64	0.0
VIRGINIA	LYNCHBURG	BABCOCK & WILCOX COMPANY		50-013	CX-10	19-22-58	0.0
WASHINGTON	RICHLAND	BATTELLE MEMORIAL INSTITUTE		50-360	CX-26	11-29-71	0.0

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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.			11a. TYPE OF REPORT b. PERIOD COVERED (Inclusive dates) December 1987		
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