

NUREG-0020
Vol. 12, No. 5
May 1988

LICENSED OPERATING REACTORS

STATUS SUMMARY REPORT

DATA AS OF 04-30-88

UNITED STATES NUCLEAR REGULATORY COMMISSION



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Manuscript Completed: June 1988
Date Published: June 1988

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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1
1

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SECTION 1

**CURRENT
DATA
SUMMARIES**

MONTHLY HIGHLIGHTS

***** 105 IN COMMERCIAL OPERATION 91,453 CAPACITY MWe (Net) --Based upon maximum dependable
 * LICENSED * (a) 2 IN POWER ASCENSION. 2,370 capacity; design elec. rating
 * POWER * used if MDC not determined
 * REACTORS * (b) 107 LICENSED TO OPERATE 93,823 TOTAL
 ***** (c) 2 LICENSED FOR FUEL LOADING
 AND LOW POWER TESTING

	MDC NET	(b) Excludes these plants	DER		DATE	DER
(a)BRAIDWOOD 1	1120	1. DRESDEN 1.....	200	(c) BRAIDWOOD 2	12/18/87	1120
SOUTH TEXAS 1	1250	2. HUMBOLDT BAY.....	65	SHOREHAM	07/03/85	820
		3. TMI 2.....	906			
		4. LACROSSE.....	50			

		REPORT MONTH	PREVIOUS MONTH	YEAR-TO-DATE
*****	1. GROSS ELECTRICAL (MWHE)	41,969,866	46,072,264	179,152,154
* POWER *	2. NET ELECTRICAL (MWHE).	39,859,342	43,781,511	170,319,709
* GENERATION *	3. AVG. UNIT SERVICE FACTOR (%).	65.1	69.4	69.7
*****	4. AVG. UNIT AVAILABILITY FACTOR (%).	65.1	69.4	69.7
	5. AVG. UNIT CAPACITY FACTOR (MDC) (%).	61.6	65.5	66.0
	6. AVG. UNIT CAPACITY FACTOR (DER) (%).	60.3	63.9	64.5
	7. FORCED OUTAGE RATE (%).	9.5	10.3	11.6

		% OF POTENTIAL PRODUCTION
*****	1. ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD.39,859,342 NET	60.6
* ACTUAL VS. *	2. ENERGY NOT PRODUCED DUE TO SCHEDULED OUTAGES (NET).16,983,094 MWHe	25.8
* POTENTIAL *	3. ENERGY NOT PRODUCED DUE TO FORCED OUTAGES (NET) 6,680,446 MWHe	10.2
* ENERGY *	4. ENERGY NOT PRODUCED FOR OTHER REASONS (NET) 2,235,488 MWHe	3.4
* PRODUCTION *	POTENTIAL ENERGY PRODUCTION IN THIS PERIOD BY UNITS IN COMMERCIAL OPERATION	100.0% TOTAL
*****	(Using Maximum Dependable Capacity Net)	
	5. ENERGY NOT PRODUCED DUE TO NRC-REQUIRED OUTAGES MWHe	
	6. ENERGY NOT PRODUCED DUE TO NRC RESTRICTED POWER LEVELS. MWHe	3 UNIT(S) WITH NRC RESTRICTION

		NUMBER	HOURS	PERCENT OF CLOCK TIME	MWHE LOST PRODUCTION
*****	1. FORCED OUTAGES DURING REPORT PERIOD	44	6,849.7	9.1	6,680,446
* OUTAGE *	2. SCHEDULED OUTAGES DURING REPORT PERIOD.	47	19,478.3	25.8	16,983,094
* DATA *					
*****	TOTAL	91	26,328.0	34.9	23,663,540

MWHE LOST PRODUCTION = Down time X maximum dependable capacity net

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MONTHLY HIGHLIGHTS

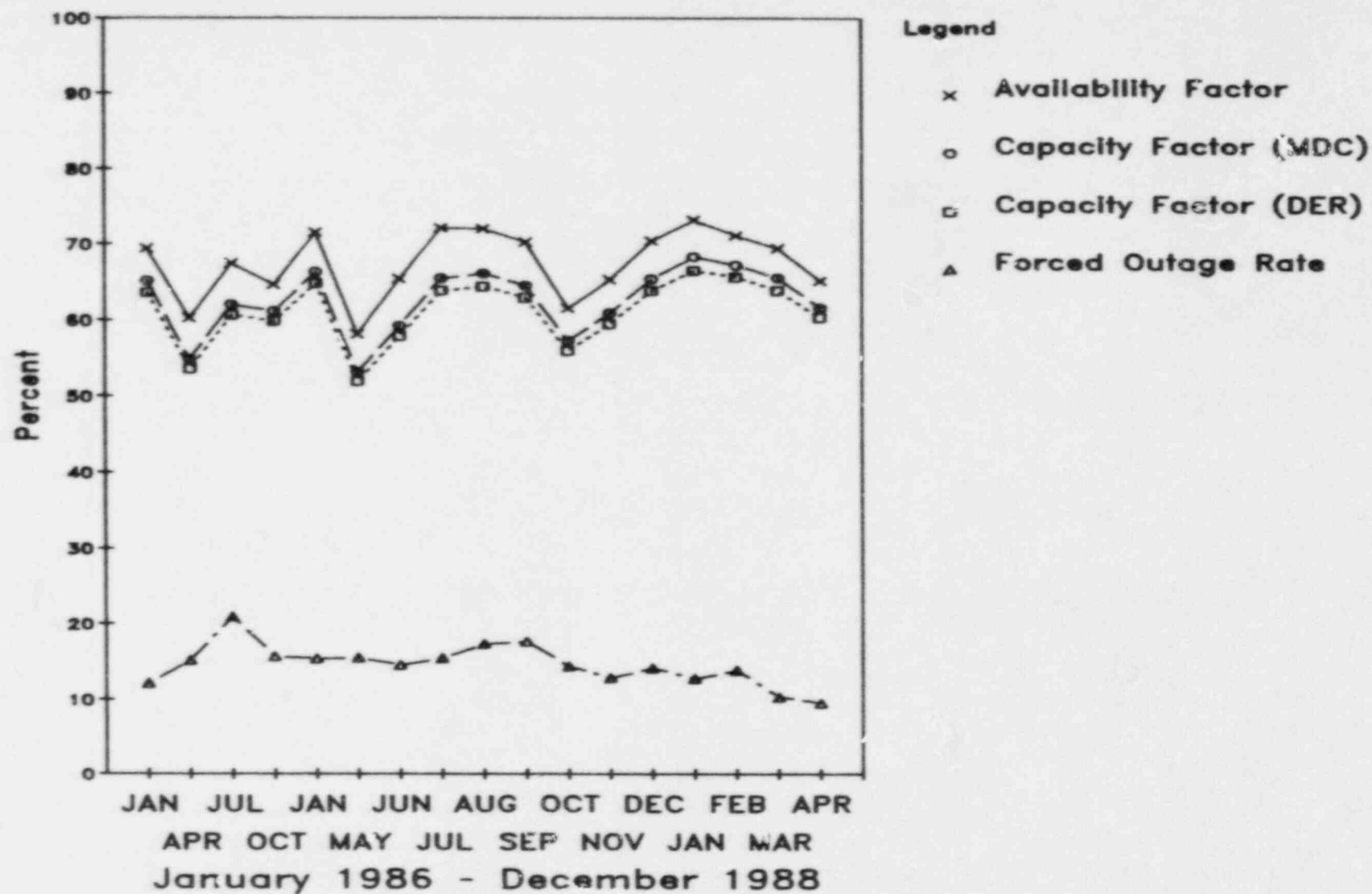
		NUMBER	HOURS LOST
*****	A - Equipment Failure	28	1,959.3
* REASONS *	B - Maintenance or Test	15	3,128.4
* FOR *	C - Refueling	28	15,513.4
* SHUTDOWNS *	D - Regulatory Restriction	0	0.0
*****	E - Operator Training & license Examination	1	260.8
	F - Administrative	8	3,607.5
	G - Operational Error	3	120.8
	H - Other	8	1,737.8
	TOTAL	91	26,328.0

		MDC (MWe Net)	POWER LIMIT (MWe Net)	TYPE
*****	BYRON 1	1120	1097	Self-imposed
* DERATED *	BYRON 2	1120	1055	Self-imposed
* UNITS *	COOK 1	1020	920	Self-imposed
*****	COOK 2	1060	864	Self-imposed
	FORT ST VRAIN	330	271	NRC Restriction
	PEACH BOTTOM 2	1051	0	NRC Restriction
	PEACH BOTTOM 3	1035	0	NRC Restriction
	ROBINSON 2	665	420	Self-imposed
	SAN ONOFRE 1	436	390	Self-imposed

	UNIT	REASON	UNIT	REASON	UNIT	REASON	UNIT	REASON
*****	ARKANSAS 2	C	BIG ROCK POINT 1	C	BROWNS FERRY 1	F	BROWNS FERRY 2	F
* SHUTDOWNS *	BROWNS FERRY 3	F	BRUNSWICK 2	C	BYRON 1	A	CALLAWAY 1	A
* GREATER *	CALVERT CLIFFS 1	C	CALVERT CLIFFS 2	A	CATAWBA 2	B	CLINTON 1	B
* THAN 72 HRS *	COOK 2	C	COOPER STATION	C	DAVIS-BESSE 1	C	DIABLO CANYON 1	C
* EACH *	DRESDEN 3	C	FARLEY 1	C	FERMI 2	B	FORT ST VRAIN	A
*****	HATCH 1	B,H	HATCH 2	H	HOPE CREEK 1	C	KEWAUNEE	C
	LASALLE 1	C	LIMERICK 1	B	MILLSTONE 2	B	MILLSTONE 3	H
	NINE MILE POINT 1	C	OCONEE 2	C	OCONEE 3	B	PALISADES	A
	PALO VERDE 2	C	PEACH BOTTOM 2	C	PEACH BOTTOM 3	C	PILGRIM 1	C
	POINT BEACH 1	C	QUAD CITIES 2	C	RANCHO SECO 1	E	SALEM 1	B
	SAN ONOFRE 1	H	SAN ONOFRE 2	B	SEQUOYAH 1	F	SEQUOYAH 2	F,F
	SURRY 1	C	SURRY 2	A	SUSQUEHANNA 2	C	TROJAN	C
	TURKEY POINT 4	A	VOGTLE 1	A	WATERFORD 3	C	ZION 1	C

Unit Availability, Capacity, Forced Outage

Avg Unit Percentage as of April 1988



AVERAGE DAILY POWER LEVEL FOR ALL COMMERCIALY OPERATING UNITS

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

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

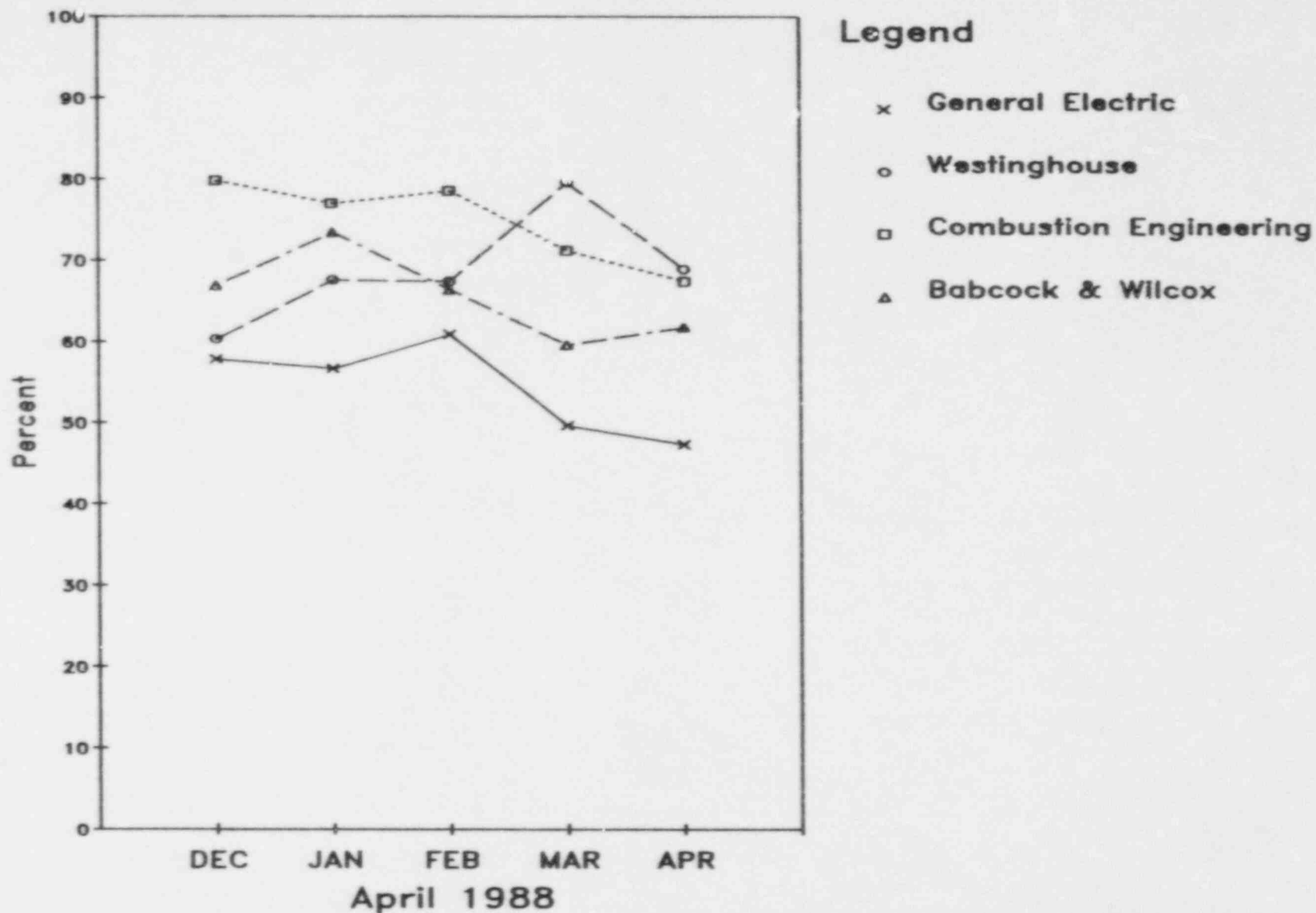
The scale on the left vertical axis runs in 1,000 MWe increments from 0 to 55,000 MWe (Net). The right vertical axis shows the percentage in 10% increments, up to 100% of the "SUM OF MDC".

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

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

Vendor Average Capacity Factors

4/30/88



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

AVERAGE CAPACITY FACTORS BY VENDORS

***** CFMDC
 * GENERAL * 0.0 BROWNS FERRY 1
 * ELECTRIC * 0.2 BRUNSWICK 2
 ***** 0.0 DRESDEN 3
 105.6 GRAND GULF 1
 0.0 LASALLE 1
 100.9 MONTICELLO
 0.0 PEACH BOTTOM 2
 88.1 QUAD CITIES 1
 0.0 SUSQUEHANNA 2

CFMDC
 0.0 BROWNS FERRY 2
 0.0 CLINTON 1
 89.5 DUANE ARNOLD
 29.9 HATCH 1
 89.8 LASALLE 2
 0.0 NINE MILE POINT 1
 0.0 PEACH BOTTOM 3
 27.9 QUAD CITIES 2
 100.9 VERMONT YANKEE 1

CFMDC
 0.0 BROWNS FERRY 3
 0.0 COOPER STATION
 0.0 FERMI 2
 52.6 HATCH 2
 40.8 LIMERICK 1
 93.7 NINE MILE POINT 2
 87.3 PERRY 1
 99.0 RIVER BEND 1
 91.6 WASHINGTON NUCLEAR 2

CFMDC
 94.6 BRUNSWICK 1
 86.4 DRESDEN 2
 103.1 FITZPATRICK
 45.3 HOPE CREEK 1
 97.5 MILLSTONE 1
 100.4 OYSTER CREEK 1
 0.0 PILGRIM 1
 101.2 SUSQUEHANNA 1

***** CFMDC
 * BABCOCK & * 80.2 ARKANSAS 1
 * WILCOX * 49.7 OCONEE 2

CFMDC
 101.7 CRYSTAL RIVER 3
 50.7 OCONEE 3

CFMDC
 0.0 DAVIS-BESSE 1
 13.7 RANCHO SECO 1

CFMDC
 100.0 OCONEE 1
 105.9 THREE MILE ISLAND 1

***** CFMDC
 * COMBUSTION * 0.0 ARKANSAS 2
 * ENGINEERING * 98.4 MAINE YANKEE
 ***** 0.0 PALO VERDE 2
 102.7 ST LUCIE 1

CFMDC
 25.6 CALVERT CLIFFS 1
 76.8 MILLSTONE 2
 95.9 PALO VERDE 3
 100.3 ST LUCIE 2

CFMDC
 89.4 CALVERT CLIFFS 2
 88.5 PALISADES
 82.9 SAN ONOFRE 2
 2.3 WATERFORD 3

CFMDC
 97.2 FORT CALHOUN 1
 86.5 PALO VERDE 1
 97.5 SAN ONOFRE 3

***** CFMDC
 * WESTINGHOUSE * 99.9 BEAVER VALLEY 1
 ***** 54.8 CALLAWAY 1
 58.3 COOK 2
 101.5 FARLEY 2
 103.6 INDIAN POINT 2
 101.5 MCGUIRE 2
 24.7 POINT BEACH 1
 58.7 ROBINSON 2
 0.0 SEQUOYAH 1
 78.7 SURRY 2
 77.1 VOGTLE 1
 89.9 ZION 2

CFMDC
 93.3 BEAVER VALLEY 2
 100.6 CATAHBA 1
 0.0 DIABLO CANYON 1
 103.3 GINNA
 92.3 INDIAN POINT 3
 7.5 MILLSTONE 3
 3 POINT BEACH 2
 50.1 SALEM 1
 0.0 SEQUOYAH 2
 39.0 TROJAN
 102.0 WOLF CREEK 1

CFMDC
 35.3 BYRON 1
 60.5 CATAHBA 2
 97.2 DIABLO CANYON 2
 94.6 HADDAM NECK
 41.6 KENAUNEE
 100.1 NORTH ANNA 1
 100.4 PRAIRIE ISLAND 1
 90.5 SALEM 2
 100.6 SUMMER 1
 101.5 TURKEY POINT 3
 95.7 YANKEE-ROWE 1

CFMDC
 89.8 BYRON 2
 89.3 COOK 1
 0.0 FARLEY 1
 101.9 HARRIS 1
 95.9 MCGUIRE 1
 100.0 NORTH ANNA 2
 99.7 PRAIRIE ISLAND 2
 0.0 SAN ONOFRE 1
 20.1 SURRY 1
 86.0 TURKEY POINT 4
 0.0 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.....	10,500,561	19,555,395	6,762,246	2,978,567	29,296,208
MDC NET.....	30,908	39,493	13,949	6,704	60,146
CFMDC.....	47.3	68.9	67.4	61.8	67.7

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% P. C. 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 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 2568

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

6. Design Electrical Rating (Net MWe): 850

7. Maximum Dependable Capacity (Gross MWe): 883

8. Maximum Dependable Capacity (Net MWe): 836

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

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

11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>117,162.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,871.2</u>	<u>81,926.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,044.0</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,865.6</u>	<u>80,294.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>817.5</u>
17. Gross Therm Ener (MWH)	<u>1,489,778</u>	<u>5,869,035</u>	<u>184,704,042</u>
18. Gross Elec Ener (MWH)	<u>507,575</u>	<u>2,003,425</u>	<u>61,270,555</u>
19. Net Elec Ener (MWH)	<u>482,094</u>	<u>1,900,693</u>	<u>58,290,070</u>
20. Unit Service Factor	<u>100.0</u>	<u>98.7</u>	<u>68.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>98.7</u>	<u>69.2</u>
22. Unit Cap Factor (MDC Net)	<u>80.2</u>	<u>78.3</u>	<u>59.5</u>
23. Unit Cap Factor (DER Net)	<u>78.9</u>	<u>77.0</u>	<u>58.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.3</u>	<u>13.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>37.4</u>	<u>12,435.0</u>

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

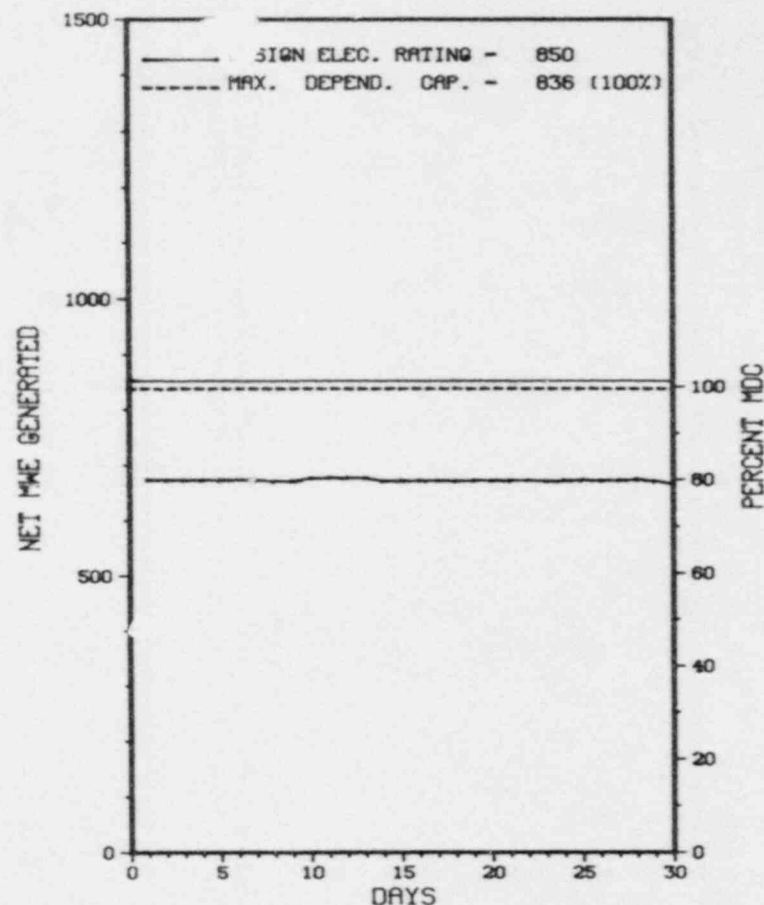
REFUELING - 9/2/88 - 72 DAY DURATION.

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

* ARKANSAS 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ARKANSAS 1



APRIL 1988

Report Period APR 1988

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 UNIT 1 OPERATED ROUTINELY AT 80% POWER DURING APRIL
FOR FUEL CONSERVATION AND INCURRED 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)

X ARKANSAS 1 X

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

Report Period APR 1988

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

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

INSPECTION SUMMARY

INSPECTION CONDUCTED FEB.21-26, 1988 (88-02) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIATION PROTECTION ACTIVITIES DURING THE UNIT 2 REFUELING OUTAGE (2R6). WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB. 29 - MARCH 10, 1988 (88-04) ROUTINE, UNANNOUNCED INSPECTION OF SUPPLEMENTAL DESIGN CONTROL, ALLEGATION ASSESSMENT, AND 10 CFR PART 21 INSPECTION. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED AND TWO UNRESOLVED ITEMS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB. 22 - MARCH 27, 1988 (88-06) ROUTINE, UNANNOUNCED INSPECTION INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, ALLEGATION FOLLOWUP, AND GENERIC LETTER FOLLOWUP. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED MARCH 22-24, 1988 (88-09) ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF THE EMERGENCY PLAN AND PROCEDURES DURING THE 1988 ANNUAL EMERGENCY EXERCISE. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. TWO DEFICIENCIES WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

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*****
*                ARKANSAS 1                *
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OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ONE REACTOR COOLANT PUMP OUT OF SERVICE

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: MCH 27, 1988

INSPECTION REPORT NO: 88-06

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	04/29/85	03/28/88	PLANT MODIFICATION DESIGN DEFICIENCIES RESULTING IN INCORRECT INSTALLATION OF SOLENOID OPERATED VALVES AND DEGRADATION OF CONTAINMENT ISOLATION CAPACITY.
88-03	02/17/88	04/05/88	REACTOR TRIP
88-04	02/10/88	04/05/88	REACTOR BUILDING HYDROGEN CONCENTRATION INSTRUMENT INOPERABLE DUE TO INADEQUATE POST-MODIFICATION TESTING.

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u>	<u>2,903.0</u>	<u>70,991.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>1,027.6</u>	<u>50,795.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,430.1</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>1,027.5</u>	<u>49,420.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>75.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>2,816,266</u>	<u>127,673,823</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>939,120</u>	<u>41,938,531</u>
19. Net Elec Ener (MWH)	<u>-4,377</u>	<u>889,498</u>	<u>39,908,995</u>
20. Unit Service Factor	<u>.0</u>	<u>35.4</u>	<u>69.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>35.4</u>	<u>69.7</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>35.7</u>	<u>65.5</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>33.6</u>	<u>61.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>8,336.0</u>

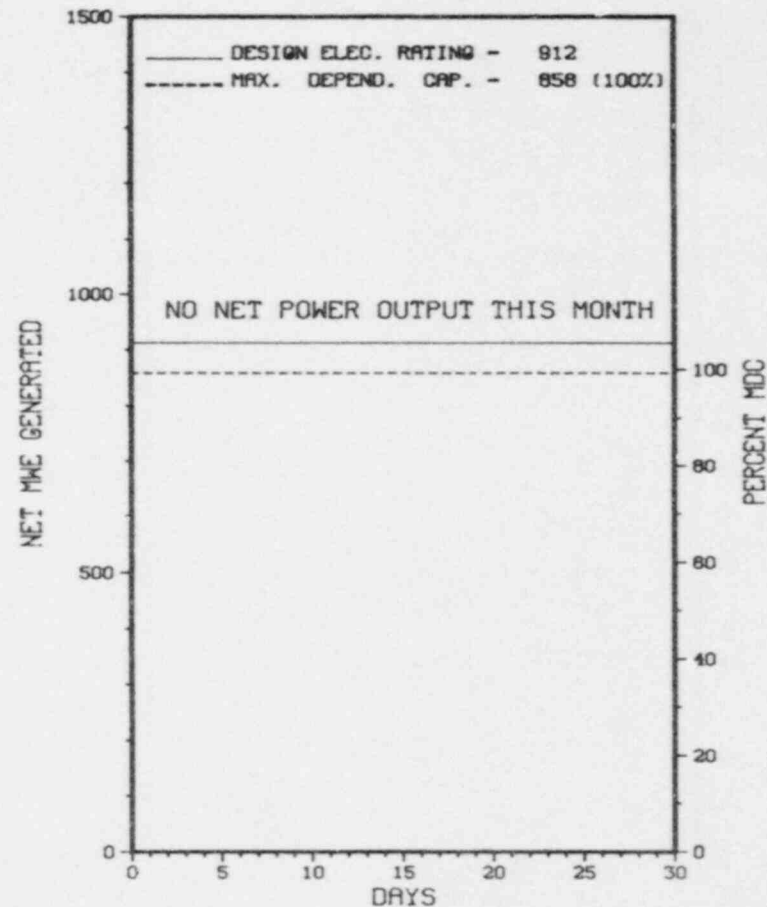
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

27. If Currently Shutdown Estimated Startup Date: 05/20/88

 * ARKANSAS 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ARKANSAS 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* ARKANSAS 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/12/88	S	719.0	C	4		ZZ ZZZZZZ	UNIT SHUTDOWN FOR REFUELING AND MAINTENANCE.

* SUMMARY *

ARKANSAS UNIT 2 REMAINED SHUTDOWN DURING APRIL FOR SCHEDULED
REFUELING AND MAINTENANCE OUTAGE.

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

* ARKANSAS 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ARKANSAS

COUNTY.....POPE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...6 MI WNW OF
RUSSELLVILLE, AR

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...DECEMBER 5, 1978

DATE ELEC ENER 1ST GENER...DECEMBER 26, 1978

DATE COMMERCIAL OPERATE...MARCH 26, 1980

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER...DARDANELLE RESERVOIR

ELECTRIC RELIABILITY
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....ARKANSAS POWER & LIGHT

CORPORATE ADDRESS.....NINTH & LOUISIANA STREETS
LITTLE ROCK, ARKANSAS 72203

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV

IE RESIDENT INSPECTOR.....W. JOHNSON

LICENSING PROJ MANAGER.....C. HARBUCK
DOCKET NUMBER.....50-368

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

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

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

INSPECTION SUMMARY

INSPECTION CONDUCTED FEB.21-26, 1988 (88-02) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIATION PROTECTION ACTIVITIES DURING THE UNIT 2 REFUELING OUTAGE (2R6). WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB. 29 - MARCH 10, 1988 (88-04) ROUTINE, UNANNOUNCED INSPECTION OF INSERVICE INSPECTION, DESIGN CHANGES AND MODIFICATIONS, SUPPLEMENTAL DESIGN CONTROL INSPECTION, USE OF E-BRITE 26-1 TUBING IN SHUTDOWN COOLING HEAT EXCHANGERS, ALLEGATION ASSESSMENT, AND 10 CFR PART 21 INSPECTION. WITHIN THE AREAS INSPECTED, TWO VIOLATIONS WERE IDENTIFIED AND TWO UNRESOLVED ITEMS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB. 22 - MARCH 27, 1988 (88-06) ROUTINE, UNANNOUNCED INSPECTION INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, ALLEGATION FOLLOWUP, REFUELING ACTIVITIES, PRESSURIZER REPAIR, EVENT FOLLOWUP, AND GENERIC LETTER FOLLOWUP. WITHIN THE AREAS INSPECTED, VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED MARCH 7-11, 1988 (88-07) ROUTINE, UNANNOUNCED INSPECTION OF THE INSERVICE TESTING PROGRAM FOR PUMPS AND VALVES. SUBJECT ACTIVITIES REVIEWED IN THIS AREA OF INSPECTION INCLUDED TRACKING METHODOLOGY FOR INSERVICE TESTING, TEST PROCEDURES AND RESULTS, INSERVICE TESTING TREND REPORTS, QUALITY ASSURANCE AUDITS, AND WITNESSING OF AN INSERVICE TEST. WITHIN THE ONE AREA INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED MARCH 22-24, 1988 (88-09) ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF THE EMERGENCY PLAN AND PROCEDURES DURING THE 1988 ANNUAL EMERGENCY EXERCISE. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                ARKANSAS 2                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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IDENTIFIED. TWO DEFICIENCIES WERE IDENTIFIED.

CONTRARY TO TECH. SPEC. 6.8.1 THE LICENSEE FAILED TO PROPERLY CONTROL COMBUSTIBLES IN THE NORTH EMERGENCY DIESEL GENERATOR ROOM.
(8800 4)

SYSTEMS AND COMPONENT PROBLEMS:

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER OPERATION

LAST IE S - INSPECTION DATE: MARCH 27, 1988

INSPECTION REPORT NO: 50-368/88-06

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-04	02/11/88	04/11/88	VIBRATION INDUCED CLOSURE OF AIR VOLUME SYSTEM.
88-05	03/19/88	04/07/88	CONTINUOUS FIRE WATCH PERSONNEL FOUND ASLEEP.

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: P.A. SMITH (412) 393-7621

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

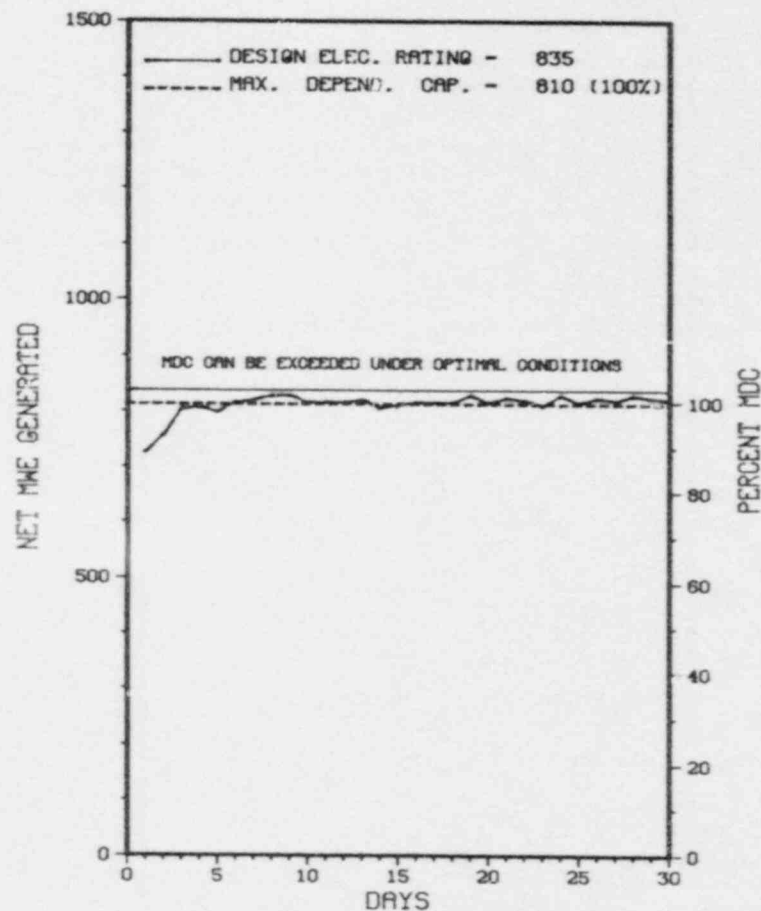
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>105,191.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>1,489.6</u>	<u>60,677.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>4,482.7</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>1,429.0</u>	<u>59,083.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2.2</u>
17. Gross Therm Ener (MWH)	<u>1,884,007</u>	<u>3,561,633</u>	<u>140,478,943</u>
18. Gross Elec Ener (MWH)	<u>616,790</u>	<u>1,164,149</u>	<u>45,929,909</u>
19. Net Elec Ener (MWH)	<u>581,970</u>	<u>1,085,627</u>	<u>42,021,230</u>
20. Unit Service Factor	<u>100.0</u>	<u>49.2</u>	<u>58.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>49.2</u>	<u>58.5</u>
22. Unit Cap Factor (MDC Net)	<u>99.9</u>	<u>46.2</u>	<u>52.5</u>
23. Unit Cap Factor (DER Net)	<u>96.9</u>	<u>44.8</u>	<u>51.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.6</u>	<u>19.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>8.1</u>	<u>19,049.5</u>

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

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

* BEAVER VALLEY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
BEAVER VALLEY 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BEAVER VALLEY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
10	04/01/88	F	0.0	B	5		HC	HTEXCH	THE UNIT ENTERED THE MONTH AT 80% POWER TO PERMIT CLEANING CONDENSER TUBES IN THE 'B' WATERBOX OF THE UNIT'S MAIN CONDENSER.
11	04/01/88	F	0.0	B	5		HC	HTEXCH	THENIT'S OUTPUT WAS REDUCED TO 80% TO PERMIT CLEANING THE CONDENSER TUBES IN THE 'C' WATERBOX OF THE UNIT'S MAIN CONDENSER.
12	04/04/88	F	0.0	A	5		HH	VALVEX	THE UNIT'S OUTPUT WAS REDUCED TO 80% TO STABILIZE THE STEAM GENERATOR FEEDWATER SYSTEM WHILE CONDENSATE PUMP DISCHARGE PRESSURE WAS BELOW ITS NORMAL VALUE.

* SUMMARY *

BEAVER VALLEY 1 INCURRED 3 POWER REDUCTIONS
IN APRIL 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)

* BEAVER VALLEY 1 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA

COUNTY.....BEAVER

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...SHIPPINGPORT, PENNSYLVANIA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 10, 1976

DATE ELEC ENER 1ST GENER...JUNE 14, 1976

DATE COMMERCIAL OPERATE...OCTOBER 1, 1976

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER...OHIO RIVER

ELECTRIC RELIABILITY
COUNCIL.....FAST CENTRAL AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DUQUESNE LIGHT

CORPORATE ADDRESS.....ONE OXFORD CENTRE, 301 GRANT STREET
PITTSBURGH, PENNSYLVANIA 15279

CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....J. BEALL

LICENSING PROJ MANAGER.....P. TAM
DOCKET NUMBER.....50-334

LICENSE & DATE ISSUANCE....DPR-66, JULY 2, 1976

PUBLIC DOCUMENT ROOM.....B.F. JONES MEMORIAL LIBRARY
633 FRANKLIN AVENUE
ALIQUIPPA, 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 APR 1978

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

* BEAVER VALLEY 1 *

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (Mwt): 2652

5. Nameplate Rating (Gross MWe): 923

6. Design Electrical Rating (Net MWe): 836

7. Maximum Dependable Capacity (Gross MWe): 885

8. Maximum Dependable Capacity (Net MWe): 833

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

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

11. Reasons for Restrictions, If Any: _____

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>3,974.0</u>
13. Hours Reactor Critical	<u>698.5</u>	<u>2,483.0</u>	<u>3,448.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>692.7</u>	<u>2,464.4</u>	<u>3,414.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,816,453</u>	<u>6,373,823</u>	<u>8,759,460</u>
18. Gross Elec Ener (MWH)	<u>589,700</u>	<u>2,073,000</u>	<u>2,855,200</u>
19. Net Elec Ener (MWH)	<u>558,678</u>	<u>1,958,071</u>	<u>2,696,175</u>
20. Unit Service Factor	<u>96.3</u>	<u>84.9</u>	<u>58.5</u>
21. Unit Avail Factor	<u>96.3</u>	<u>84.9</u>	<u>58.5</u>
22. Unit Cap Factor (MDC Net)	<u>93.3</u>	<u>81.0</u>	<u>52.5</u>
23. Unit Cap Factor (DER Net)	<u>92.9</u>	<u>80.7</u>	<u>51.0</u>
24. Unit Forced Outage Rate	<u>3.7</u>	<u>3.6</u>	<u>19.3</u>
25. Forced Outage Hours	<u>26.3</u>	<u>91.6</u>	<u>212.8</u>

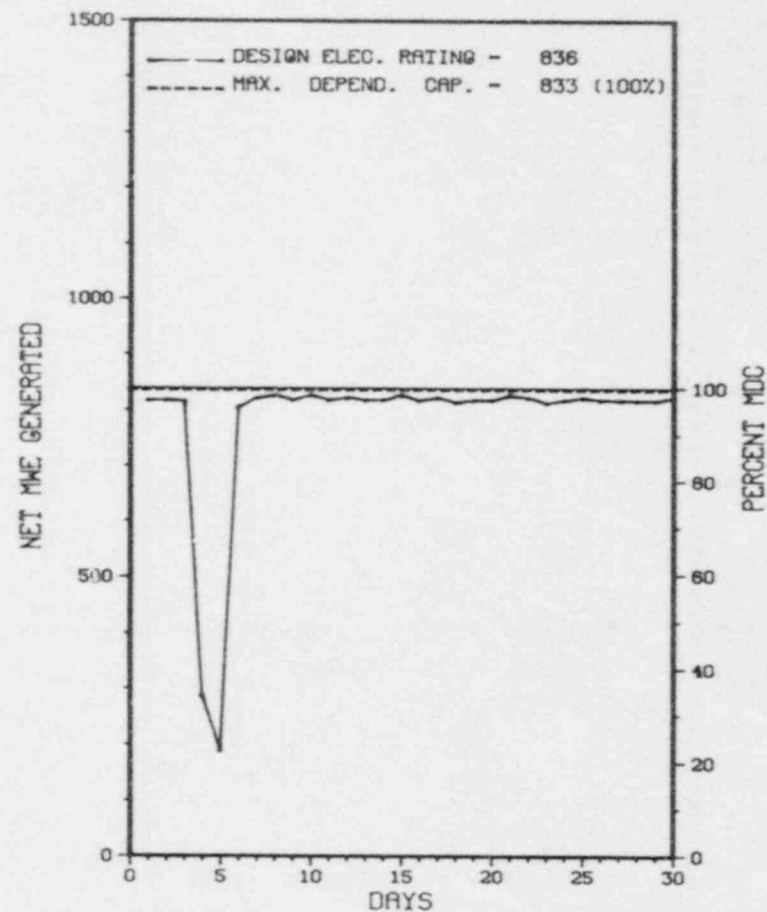
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

NONE

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

* BEAVER VALLEY 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
BEAVER VALLEY 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BEAVER VALLEY 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8	04/04/88	F	26.3	A	3	88-007	EB	RELAYX	THE UNIT TRIPPED FROM 100% POWER WHEN THE 'A' REACTOR COOLANT PUMP TRIPPED AFTER THE UNIT'S '2A' 4 KV BUS BECAME DE-ENERGIZED BY A FAULTY RELAY.

* SUMMARY *

BEAVER VALLEY 2 INCURRED 1 OUTAGE IN APRIL
DUE TO A FAULTY RELAY WHICH CAUSED 'A'
REACTOR COOLANT PUMP TO TRIP.

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 2 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA

COUNTY.....BEAVER

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...SHIPPINGPORT, PENNSYLVANIA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...AUGUST 4, 1987

DATE ELEC ENER 1ST GENER...AUGUST 17, 1987

DATE COMMERCIAL OPERATE...NOVEMBER 17, 1987

CONDENSER COOLING METHOD...HNDCT

CONDENSER COOLING WATER...OHIO RIVER

ELECTRIC RELIABILITY
COUNCIL.....EAST CENTRAL AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DUQUESNE LIGHT

CORPORATE ADDRESS.....435 SIXTH AVENUE
PITTSBURGH, PENNSYLVANIA 15219

CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....J. BEALL

LICENSING PROJ MANAGER.....P. TAM
DOCKET NUMBER.....50-412

LICENSE & DATE ISSUANCE...NPF-73, AUGUST 14, 1987

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633 FRANKLIN AVENUE
ALIQUIPPA, 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 APR 1988

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

* BEAVER VALLEY 2 *

PLANT STATUS:

INFO. NOT SUPPLIED BY REGION

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

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

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

=====

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

INFO. NOT SUPPLIED BY REGION

=====

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u>	<u>2,903.0</u>	<u>219,954.0</u>
13. Hours Reactor Critical	<u>190.6</u>	<u>2,187.6</u>	<u>158,021.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>187.2</u>	<u>2,141.0</u>	<u>155,275.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>32,664</u>	<u>401,610</u>	<u>29,335,133</u>
18. Gross Elec Ener (MWH)	<u>10,830</u>	<u>130,951</u>	<u>9,302,785</u>
19. Net Elec Ener (MWH)	<u>10,205</u>	<u>123,730</u>	<u>8,796,972</u>
20. Unit Service Factor	<u>26.0</u>	<u>73.8</u>	<u>70.6</u>
21. Unit Avail Factor	<u>26.0</u>	<u>73.8</u>	<u>70.6</u>
22. Unit Cap Factor (MDC Net)	<u>20.6</u>	<u>61.8</u>	<u>59.4*</u>
23. Unit Cap Factor (DER Net)	<u>19.7</u>	<u>59.2</u>	<u>55.5</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>7.1</u>	<u>13.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>163.3</u>	<u>12,270.0</u>

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

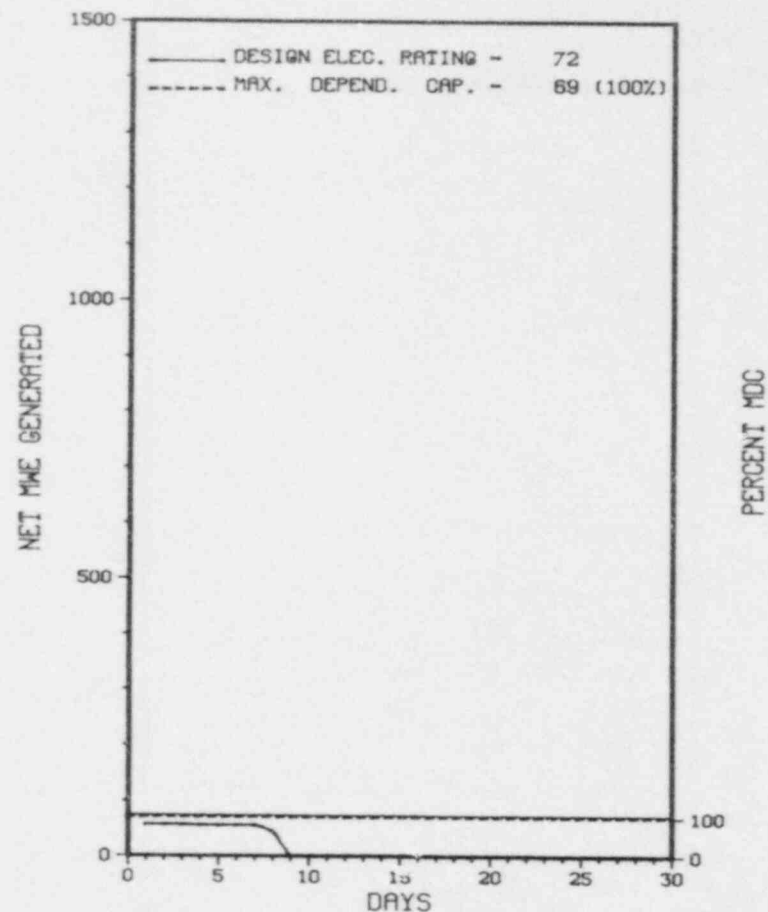
NONE

27. If Currently Shutdown Estimated Startup Date: 06/06/88

* BIG ROCK POINT 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BIG ROCK POINT 1



APRIL 1988

* Item calculated with a Weighted Average

PAGE 2-018

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BIG ROCK POINT 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-09	04/08/88	S	531.8	C	1				A CONTROLLED POWER REDUCTION IN PREPARATION FOR THE 1988 REFUELING OUTAGE. THE REFUELING OUTAGE IS EXPECTED TO CONTINUE UNTIL APPROX. JUNE 6, 1988.

* SUMMARY *

BIG ROCK POINT COMMENCED SCHEDULED
REFUELING OUTAGE ON APRIL 9, 1988.

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)

* BIG ROCK POINT 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MICHIGAN

COUNTY.....CHARLEVOIX

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...4 MI NE OF
CHARLEVOIX, MICH

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...SEPTEMBER 27, 1962

DATE ELEC ENER 1ST GENER...DECEMBER 8, 1962

DATE COMMERCIAL OPERATE...MARCH 29, 1963

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...LAKE MICHIGAN

ELECTRIC RELIABILITY
COUNCIL.....EAST CENTRAL AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....CONSUMERS POWER

CORPORATE ADDRESS.....212 WEST MICHIGAN AVENUE
JACKSON, MICHIGAN 49201

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....S. GUTHRIE

LICENSING PROJ MANAGER.....W. SCOTT
DOCKET NUMBER.....50-155

LICENSE & DATE ISSUANCE....DPR-6, AUGUST 30, 1962

PUBLIC DOCUMENT ROOM.....NORTH CENTRAL MICHIGAN COLLEGE
1515 HOWARD STREET
PETOSKEY, MICHIGAN 49770

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

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

RDS VALVES CORROSION PROBLEM

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

Report Period APR 1988

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

* BIG ROCK POINT 1 *

OTHER ITEMS

NONE

PLANT STATUS:

REFUELING OUTAGE 4/7 TO 6/6

LAST IE SITE INSPECTION DATE: 04/19/88

INSPECTION REPORT NO: 88005

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

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

=====			

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u>	<u>2,903.0</u>	<u>7,056.0</u>
13. Hours Reactor Critical	<u>163.1</u>	<u>249.0</u>	<u>3,308.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>140.6</u>	<u>213.2</u>	<u>2,823.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>154,593</u>	<u>250,909</u>	<u>5,266,581</u>
18. Gross Elec Ener (MWH)	<u>49,032</u>	<u>79,586</u>	<u>1,684,190</u>
19. Net Elec Ener (MWH)	<u>42,025</u>	<u>58,136</u>	<u>1,514,787</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>578.4</u>	<u>783.4</u>	<u>1,655.6</u>

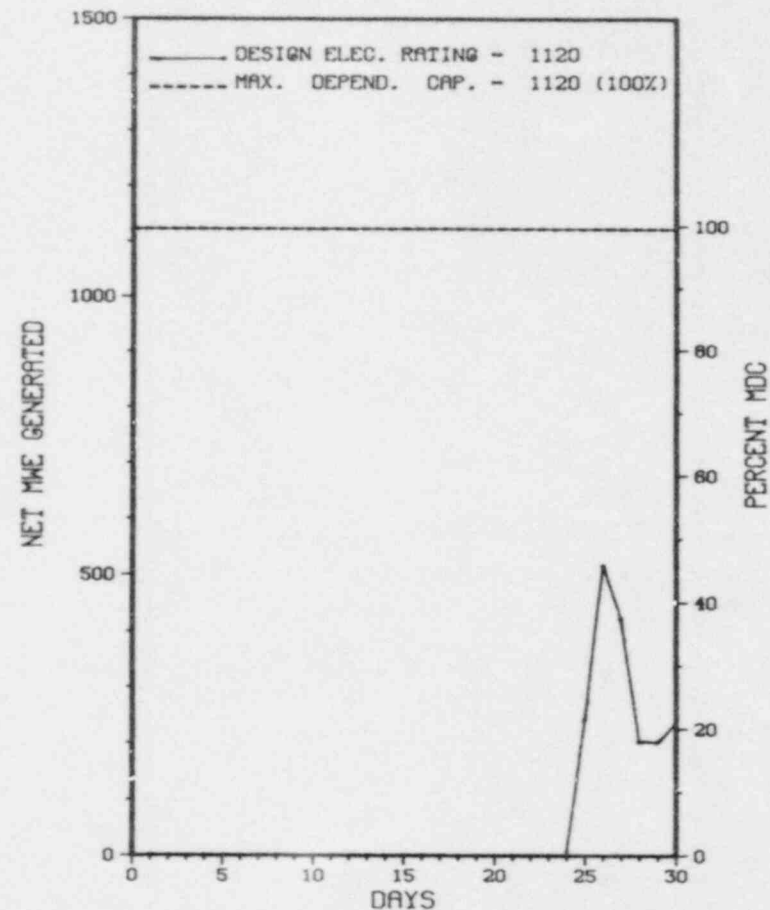
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

NONE

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

* BRAIDWOOD 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
BRAIDWOOD 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BRAIDWOOD 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
02	03/23/88	F	578.4	H	4			UNIT SHUT DOWN DUE TO ENVIRONMENTAL QUALIFICATION CONCERNS WITH LIMITORQUE VALVE OPERATOR GREASE. GREASE WAS CHANGED AS REQUIRED.

* SUMMARY *

BRAIDWOOD 1 ENTERED APRIL IN MODE 5. UNIT CAME ON LINE ON APRIL 25 AT 50% POWER. POWER REDUCED TO 25% ON APRIL 28 AND REMAINED AT THIS LEVEL FOR REMAINDER OF THE MONTH.

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

* BRAIDWOOD 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS

COUNTY.....WILL

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...24 MI SSW OF
JOLIET, ILL

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 29, 1987

DATE ELEC ENER 1ST GENER...JULY 12, 1987

DATE COMMERCIAL OPERATE...*****

CONDENSER COOLING METHOD...CC ART

CONDENSER COOLING WATER...KANKAKEE RIVER

ELECTRIC RELIABILITY
COUNCIL.....MID-AMERICA
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....COMMONWEALTH EDISON

CORPORATE ADDRESS.....P.O. BOX 767
CHICAGO, ILLINOIS 60690

CONTRACTOR
ARCHITECT/ENGINEER.....SARGENT & LUNDY

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....COMMONWEALTH EDISON

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....L. MCGREGOR

LICENSING PROJ MANAGER.....S. SANDS
DOCKET NUMBER.....50-456

LICENSE & DATE ISSUANCE...NPF-72, JULY 2, 1987

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WILMINGTON PUBLIC LIBRARY
201 SOUTH KANKAKEE STREET
WILMINGTON, ILLINOIS, 60481

INSPECTION STATUS

INSPECTION SUMMARY

Inspection on October 5 through December 22, 1987, January 19 and February 18 and 26, 1988 (87038; 87036): Routine, unannounced safety inspection of licensee action on previous inspection findings; review of electrical and instrumentation components including systems design and completed installations; examination of Remote Shutdown Panel; inspection of Main Steam Line and Main Feedwater Isolation Valve components; observation of ongoing field activities; review of selected systems and components; review of Critical Drawings in the control room; review of OAD construction activities; and training (92701, 99020, 41400, 51053, 51054, 51055, 51056, 51063, 51065, 51066, 52053, 52054, 52055, 52056, 52063, 52064, 52066). Of the nine areas inspected, no violations or deviations were identified in three areas; one violation with three examples - failure to follow procedure or inadequate procedures; one violation with five examples.

Inspection on March 14 through March 30, 1988 (88010; 88011): Routine announced inspection conducted to review the status of fire protection license conditions and open items. The following inspection modules were employed by the inspector: 64704 and 92701. Of the areas inspected, no violations or deviations were identified.

Inspection from March 14 through March 25, 1988 (88012): Special safety inspection conducted by the resident inspectors concerning an event in which the 2B Safety Injection pump was found incapable of performing its intended function when its manual discharge valve (2SI8921B) was found locked shut. One violation (failure to meet a Technical Specification requirement) was identified.

INSPECTION SUMMARY

Inspection from February 14 through April 9, 1988 (88008; 88009): Routine, unannounced safety inspection by the resident inspector of licensee action on previously identified items; confirmatory action letters; regional requests; followup on TMI action items; operators' use of measuring and test equipment (M&TE); control room log entries; startup test observation; initial criticality witnessing; operational safety verification; radiological protection; engineered safety feature systems; sustained control room and plant observations; physical security; monthly maintenance observation monthly surveillance observation; training effectiveness; report review; and meetings and other activities. Of the nineteen areas inspected, no violations were identified in seventeen. In the remaining areas, violations were identified regarding operators' use of M&TE and control room log entries.

Inspection on February 16 through March 7, 1988 (88007): Special announced team inspection by Region III, NRC Headquarters, and senior resident based inspectors to perform an operational readiness inspection prior to full power licensing of the Braidwood Unit 2 plant. Areas reviewed included: operations, surveillance and testing, maintenance, radiation controls, chemistry controls, nuclear engineer activities, and training. Of the seven functional areas inspected, no violations or deviations were identified in six of the seven areas. However, one Open Item was identified in one functional area (maintenance) to track resolution of a perceived problem with the licensee's scheduling of periodic lubrications, and one Unresolved Item was identified in another functional area (radiation controls) to track resolution of a potential noncompliance with Technical Specification requirements for control of Radiation Control Technicians overtime. Within the remaining functional area (operations) two violations were identified. One violation was identified for failure to write a deviation report, as required, after the Boric Acid Transfer Pumps recirculation line was identified as having become plugged. The second violation involved multiple examples of a weak and ineffective Out-of-Service program. After returning to the Braidwood station to followup on corrective actions instituted by the licensee as a result of the initial inspection, the ORI was able to make a recommendation to Region II management for issuance of a full power license for Braidwood Unit 2.

Meeting On March 28, 1988 (880012): An enforcement conference conducted to discuss licensee errors associated with a design change to the electrical heaters in the Control Room Ventilation Systems.

Inspection from March 14 through March 25, 1988 (88011; 88013): Special safety inspection conducted by resident inspector to evaluate circumstances and significance of events surrounding the inoperability of non-accessible area exhaust filter plenums on December 18, 1987, and on March 13, 1988, for Units 1 and 2. One violation of NRC requirements was identified: two events involving two inoperable non-accessible area exhaust filter plenums with the subsequent failure to place units in the applicable operating modes as specified in Technical specification 3.0.3.

Inspection on March 3-7, 1988 (88009; 88010): Special safety inspection to follow-up allegation RIII 88-A-0009. No violations or deviations were identified.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXX,XXXXXXXXXXXXXXXXXXXXX
X          BRAIDWOOD 1          X
XXXXXXXXXXXXXXXXXXXXX,XXXXXXXXXXXXXXXXXXXXX

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NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 04/27/88

INSPECTION REPORT NO: 88014

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-08	032588	042588	REACTOR COOLANT SYSTEM LEAKAGE DUE TO BROKEN RELIEF VALVE DISC PIN
88-09	040788	042688	LOSS OF OB CONTROL ROOM CHILLER DUE TO DETERMINATION OF TEMPERA TURE CONTROLLER
88-10	041088	042888	CONTROL ROOM VENTIALTION TO MAKEUP MODE OF OPERATION FROM A HIGH RADIATION ALARM DUE TO INCORRECT SETPOINT

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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 Charges 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>719.0</u>	<u>2,903.0</u>	<u>120,529.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>59,520.9</u>
14. Bx Reserve Shtdn 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 Shtdn 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>-4,606</u>	<u>-9,415</u>	<u>53,658,502</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>48.4</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>48.4</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>41.8</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>41.8</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>42.8</u>
25. Forced Outage Hours	<u>719.0</u>	<u>2,903.0</u>	<u>43,601.1</u>

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

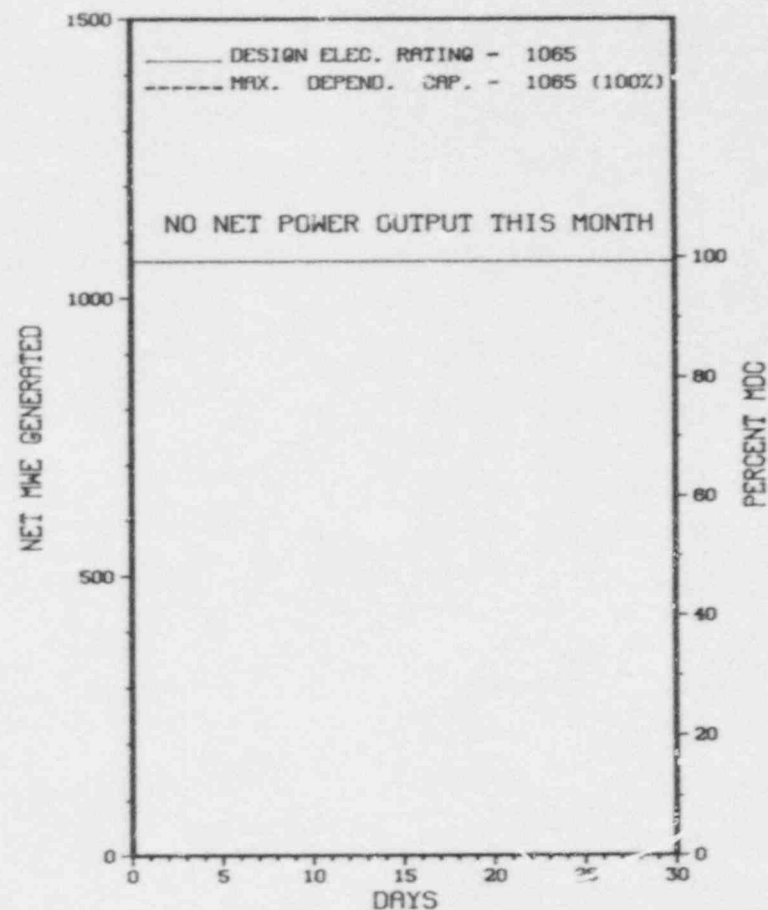
NONE

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

* BROWNS FERRY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BROWNS FERRY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
315	06/01/85	F	719.0	F	4			ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

* SUMMARY *

BROWN'S FERRY 1 REMAINED ON ADMINISTRATIVE
HOLD IN APRIL IN ORDER TO RESOLVE VARIOUS
TVA AND NRC CONCERNS.

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)

* BROWNS FERRY 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ALABAMA
COUNTY.....LIMESTONE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...10 MI NW OF
DECATUR, ALA
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...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 JANUARY 6-13 (88-01): THIS ANNOUNCED SPECIAL INSPECTION WAS CONDUCTED IN THE CORPORATE OFFICES IN CHATTANOOGA TO REVIEW THE LICENSEE'S CORRECTIVE MEASURES IN RESPONSE TO UNRESOLVED ITEM NO. 50-259.260 AND 296/86-37-01 AND 50-327 AND 328/86-58-01. THE UNRESOLVED ITEM IS CLOSED.

INSPECTION MARCH 14-21 (88-06): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF ULTRASONIC EXAMINATION OF UNIT 2 REACTOR VESSEL SHROUD ACCESS COVER AS REFERENCED IN NRC INFORMATION NOTICE NO. 88-03 AND GENERAL ELECTRIC (GE) SURVEILLANCE INSTRUCTION LETTER (SIL) NO. 462 AND INSERVICE INSPECTION STATUS FOR UNITS 1 AND 3. ONE VIOLATION WAS IDENTIFIED - FAILURE TO FOLLOW PROCEDURE FOR PREVENTION OF FOREIGN MATERIAL IN REACTOR VESSEL CAVITY.

INSPECTION MARCH 22-24 (88-08): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED TO ENSURE THAT OPERATORS IN GROUP 4 OF YOUR ACCELERATED REQUALIFICATION TRAINING COURSE HAD SATISFACTORILY COMPLETED THE COURSE AND ARE READY TO PERFORM LICENSED DUTIES IN THE SHUTDOWN AND REFUELING MODES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THIS REPORT.

INSPECTION APRIL 4-8 (88-09): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED REVIEW AND EVALUATION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

FAILURE TO MAINTAIN AND FOLLOW CONTROL AND ACCOUNTABILITY FOR NON FUEL SNM. FAILURE TO UPDATE INTERNAL RECORDS IN A TIMELY MANNER.

(8702 4)

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION II, CRITERION V, CRITERION XVII, QA TOPICAL REPORT TABLE 17E-1, NUCLEAR QUALITY ASSURANCE MANUAL (NQAM), PART 1, SECTION 2.17, AND NUCLEAR ENGINEERING PROCEDURE 1.2, REV. 1, AS OF OCTOBER 1987, DNE TRAINING AND DOCUMENTATION FAILED TO MEET THE FOLLOWING REQUIREMENTS OF NEP-1.2: (1) THE ASSISTANT CHIEF MECHANICAL ENGINEER'S TRAINING COULD NOT BE CONFIRMED FOR 30 OF 40 REQUIRED TRAINING SUBJECTS. A LEAD MECHANICAL ENGINEER'S TRAINING COULD NOT BE CONFIRMED FOR 35 OF 40 REQUIRED TRAINING SUBJECTS. (2) WATTS BAR SITE-SPECIFIED TRAINING REQUIREMENTS WERE LESS THAN THE TRAINING PROGRAM SPECIFIED BY NEP-1.2. A TYPICAL EXAMPLE CONCERNS A WATTS BAR ASSISTANT PROJECT ENGINEER (APE), WHOSE SITE-SPECIFIED TRAINING REQUIREMENTS DID NOT INCLUDE SEVEN AREAS REQUIRED BY NEP-1.2. (3) THE LICENSEE WAS UNABLE TO CONFIRM THAT REQUIREMENTS OF THE TRAINING MATRIX HAD BEEN ACCOMPLISHED FOR FIVE MECHANICAL ENGINEERING BRANCH (MEB) PERSONNEL AND TWO WATTS BAR APES. SINCE AN ADDITIONAL OPPORTUNITY TO CONFIRM THE ABOVE TRAINING WAS AFFORDED SUBSEQUENT TO THE EXIT INTERVIEW AND THE TRAINING WAS NOT CONFIRMED, THE NRC CONCLUDES THAT THE TRAINING WAS NOT CONDUCTED.

CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION XVIII, CRITERION XVI, AND NQAM, PART 1, SECTION 2.18, REV. 0, 10 AUDITS FROM 1985 TO JANUARY 1987 IDENTIFIED TRAINING DEFICIENCIES WHICH, AT THE TIME OF THE INSPECTION, HAD NOT BEEN CORRECTED.

(8703 4)

CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION V, AND NEP 1.3, REV. 0, CORRECTIONS WERE MADE TO NUMEROUS DOCUMENTS IN A MANNER NOT IN CONFORMANCE WITH THE ONE LINE, INITIAL, AND DATE METHOD.

(8703 5)

CONTRARY TO TECHNICAL SPECIFICATION (TS) 4.7.B.2.A, THE TEST PERFORMED ON SGTs TRAIN B NOVEMBER 25, 1987, TO SATISFY THIS REQUIREMENT FOLLOWING A FIRE IN THE UNIT 2 DRYWELL DID NOT COMPLY WITH ANSI N510-1975 IN THE FOLLOWING EXAMPLES: (1) THE FREON GAS GENERATOR OUTPUT WAS NOT HELD TO PLUS OR MINUS 20% OF THE PRE-SET VALUE AS SPECIFIED IN STEP 12.4.3 OF ANSI N510-1975. (2) THE UPSTREAM CONCENTRATION OF FREON TRACER GAS WAS NOT LIMITED TO 20 PPM AS SPECIFIED IN STEP 12.4.3 OF ANSI N510-1975.

(8704 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ENVIRONMENTAL QUALIFICATION WORK.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

TVA APPOINTED MR. JOHN WALKER TO PLANT MANAGER POSITION.

PLANT STATUS:

SHUTDOWN FOR REPAIRS ON 03/19.

Report Period APR 1988

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

* BROWNS FERRY 1 *

OTHER ITEMS

LAST IE SITE INSPECTION DATE: APRIL 4-8, 1988 +

INSPECTION REPORT NO: 50-259/88-09 +

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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88-013    03/28/88    04/26/88    RADIATION MONITOR SPIKE INITIATES CONTROL ROOM EMERGENCY VENTILATION
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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: 04/01/88 Outage + On-line Hrs: 719.0

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

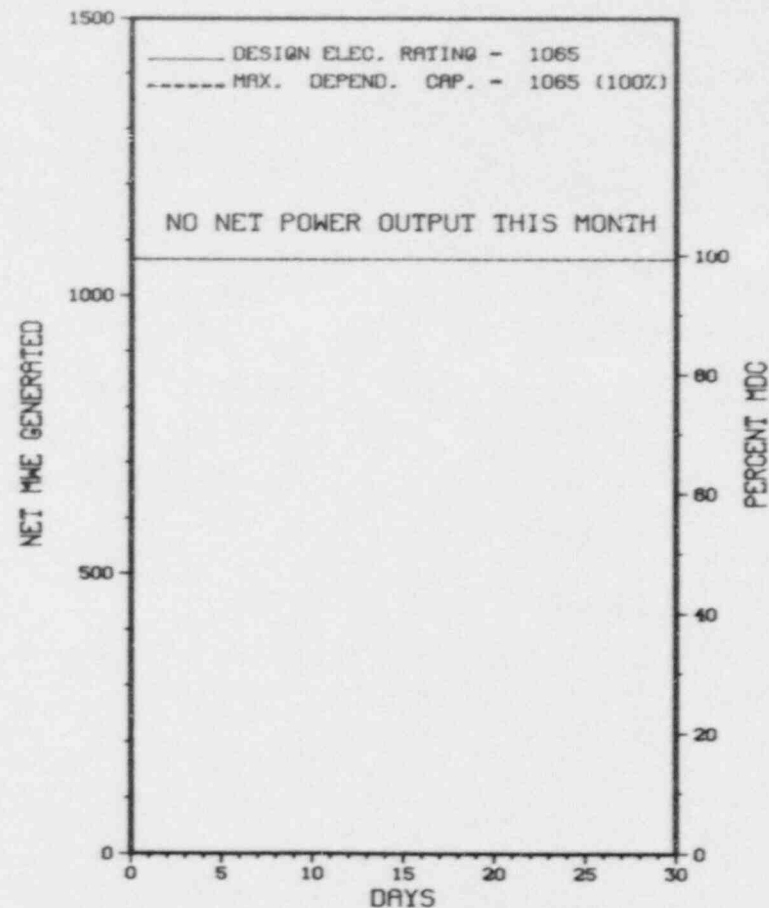
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>115,440.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>.0</u>	<u>55,859.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>14,200.4</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>.0</u>	<u>54,338.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>0</u>	<u>153,245,167</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>0</u>	<u>50,771,798</u>
19. Net Elec Ener (MWH)	<u>-1,924</u>	<u>-7,666</u>	<u>49,176,167</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>47.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>47.1</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>42.1</u>
25. Forced Outage Hours	<u>719.0</u>	<u>2,903.0</u>	<u>39,656.4</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



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * BROWNS FERRY 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
305	09/15/84	F	719.0	F	4			ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

 * SUMMARY *

 BROWN'S FERRY 2 REMAINED ON ADMINISTRATIVE
 HOLD IN MARCH 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ALABAMA
COUNTY.....LIMESTONE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...10 MI NW OF
DECATUR, ALA
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...JULY 20, 1974
DATE ELEC ENER 1ST GENER...AUGUST 23, 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
TUBINE 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 JANUARY 6-13 (88-01): THIS ANNOUNCED SPECIAL INSPECTION WAS CONDUCTED IN THE CORPORATE OFFICES IN CHATTANOOGA TO REVIEW THE LICENSEE'S CORRECTIVE MEASURES IN RESPONSE TO UNRESOLVED ITEM NO. 50-259,260 AND 296/86-37-01 AND 50-327 AND 328/86-58-01. THE UNRESOLVED ITEM IS CLOSED.

INSPECTION MARCH 14-21 (88-06): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF ULTRASONIC EXAMINATION OF UNIT 2 REACTOR VESSEL SHROUD ACCESS COVER AS REFERENCED IN NRC INFORMATION NOTICE NO. 88-03 AND GENERAL ELECTRIC (GE) SURVEILLANCE INSTRUCTION LETTER (SIL) NO. 462 AND INSERVICE INSPECTION STATUS FOR UNITS 1 AND 3. ONE VIOLATION WAS IDENTIFIED - FAILURE TO FOLLOW PROCEDURE FOR PREVENTION OF FOREIGN MATERIAL IN REACTOR VESSEL CAVITY.

INSPECTION MARCH 22-24 (88-08): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED TO ENSURE THAT OPERATORS IN GROUP 4 OF YOUR ACCELERATED REQUALIFICATION TRAINING COURSE HAD SATISFACTORILY COMPLETED THE COURSE AND ARE READY TO PERFORM LICENSED DUTIES IN THE SHUTDOWN AND REFUELING MODES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THIS REPORT.

INSPECTION APRIL 4-8 (88-09): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED REVIEW AND EVALUATION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION STATUS - (CONTINUED)

ENFORCEMENT SUMMARY

(8702 4)

CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION XVIII, CRITERION XVI, AND NQAM, PART 1, SECTION 2.18, REV. 0, 10 AUDITS FROM 1985 TO JANUARY 1987 IDENTIFIED TRAINING DEFICIENCIES WHICH, AT THE TIME OF THE INSPECTION, HAD NOT BEEN CORRECTED. (8703 4)

CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION V, AND NEP 1.3, REV. 0, CORRECTIONS WERE MADE TO NUMEROUS DOCUMENTS IN A MANNER NOT IN CONFORMANCE WITH THE ONE LINE, INITIAL, AND DATE METHOD.
(8703 5)

CONTRARY TO TECHNICAL SPECIFICATION (TS) 4.7.B.2.A, THE TEST PERFORMED ON SGTs TRAIN B NOVEMBER 25, 1987, TO SATISFY THIS REQUIREMENT FOLLOWING A FIRE IN THE UNIT 2 DRYWELL DID NOT COMPLY WITH ANSI N510-1975 IN THE FOLLOWING EXAMPLES: (1) THE FREON GAS GENERATOR OUTPUT WAS NOT HELD TO PLUS OR MINUS 20% OF THE PRE-SET VALUE AS SPECIFIED IN STEP 12.4.3 OF ANSI N510-1975. (2) THE UPSTREAM CONCENTRATION OF FREON TRACER GAS WAS NOT LIMITED TO 20 PPM AS SPECIFIED IN STEP 12.4.3 OF ANSI N510-1975. (8704 4)

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.

Report Period APR 1988

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

* BROWNS FERRY 2 *

OTHER ITEMS

LAST IE SITE INSPECTION DATE: APRIL 4-8, 1988 +

INSPECTION REPORT NO: 50-260/88-09 +

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

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NONE.			

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1. Docket: 50-296 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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):

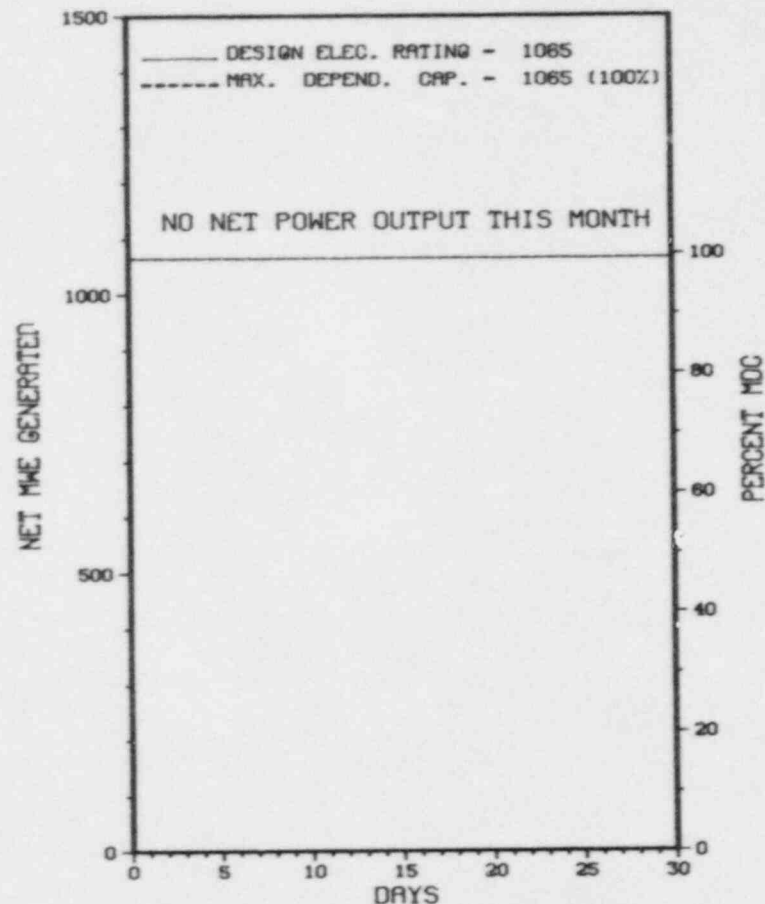
11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>97,895.0</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>-1,763</u>	<u>-10,530</u>	<u>42,031,538</u>
20. Unit Service Factor	<u>.0</u>	<u>.0</u>	<u>45.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>.0</u>	<u>45.1</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>.0</u>	<u>40.3</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>.0</u>	<u>40.3</u>
24. Unit Forced Outage Rate	<u>100.0</u>	<u>100.0</u>	<u>43.2</u>
25. Forced Outage Hours	<u>719.0</u>	<u>2,903.0</u>	<u>33,640.4</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

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

* BROWNS FERRY 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
BROWNS FERRY 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * BROWNS FERRY 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
157	03/03/85	F	719.0	F	4				ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

 * SUMMARY *

BROWN'S FERRY 3 REMAINED ON ADMINISTRATIVE
 HOLD IN MARCH 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ALABAMA

COUNTY.....LIMESTONE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...10 MI NW OF
DECATUR, ALA

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...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 JANUARY 6-13 (88-01): THIS ANNOUNCED SPECIAL INSPECTION WAS CONDUCTED IN THE CORPORATE OFFICES IN CHATTANOOGA TO REVIEW THE LICENSEE'S CORRECTIVE MEASURES IN RESPONSE TO UNRESOLVED ITEM NO. 50-259,260 AND 296/86-37-01 AND 50-327 AND 328/86-58-01. THE UNRESOLVED ITEM IS CLOSED.

INSPECTION MARCH 14-21 (88-06): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF ULTRASONIC EXAMINATION OF UNIT 2 REACTOR VESSEL SHROUD ACCESS COVER AS REFERENCED IN NRC INFORMATION NOTICE NO. 88-03 AND GENERAL ELECTRIC (GE) SURVEILLANCE INSTRUCTION LETTER (SIL) NO. 462 AND INSERVICE INSPECTION STATUS FOR UNITS 1 AND 3. ONE VIOLATION WAS IDENTIFIED - FAILURE TO FOLLOW PROCEDURE FOR PREVENTION OF FOREIGN MATERIAL IN REACTOR VESSEL CAVITY.

INSPECTION MARCH 22-24 (88-08): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED TO ENSURE THAT OPERATORS IN GROUP 4 OF YOUR ACCELERATED REQUALIFICATION TRAINING COURSE HAD SATISFACTORILY COMPLETED THE COURSE AND ARE READY TO PERFORM LICENSED DUTIES IN THE SHUTDOWN AND REFUELING MODES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THIS REPORT.

INSPECTION APRIL 4-8 (88-09): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED REVIEW AND EVALUATION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period APR 1988

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

* BROWNS FERRY 3 *

OTHER ITEMS

LAST IE SITE INSPECTION DATE: APRIL 4-8, 1988 +

INSPECTION REPORT NO: 50-296/88-09 +

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

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NONE.			

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1. Docket: 50-325 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u>	<u>2,903.0</u>	<u>97,488.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,249.8</u>	<u>63,187.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,647.1</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,180.6</u>	<u>60,041.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,669,936</u>	<u>5,108,689</u>	<u>127,088,225</u>
18. Gross Elec Ener (MWH)	<u>553,025</u>	<u>1,684,420</u>	<u>41,793,967</u>
19. Net Elec Ener (MWH)	<u>537,142</u>	<u>1,631,013</u>	<u>40,210,145</u>
20. Unit Service Factor	<u>100.0</u>	<u>75.1</u>	<u>61.6</u>
21. Unit Avail Factor	<u>100.0</u>	<u>75.1</u>	<u>61.6</u>
22. Unit Cap Factor (MDC Net)	<u>94.6</u>	<u>71.1</u>	<u>52.2</u>
23. Unit Cap Factor (DER Net)	<u>91.0</u>	<u>68.4</u>	<u>50.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>15.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,619.7</u>

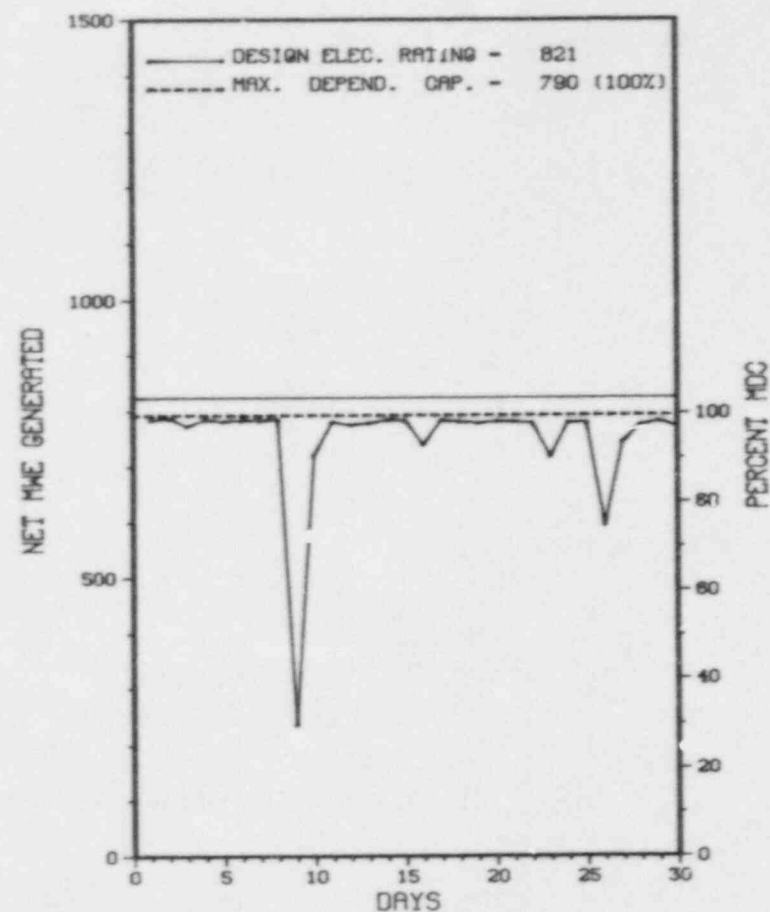
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* BRUNSWICK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRUNSWICK 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BRUNSWICK 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88020	04/08/88	S	0.0	A	5				REDUCE POWER TO MAKE DRYWELL ENTRY TO ADD OIL TO RECIRC PUMP
88022	04/10/88	S	0.0	B	5				REDUCE POWER FOR CONTROL ROD PATTERN CHANGE.
88023	04/13/88	S	0.0	B	5				REDUCE POWER FOR CONTROL ROD PATTERN CHANGE.
88021	04/23/88	S	0.0	B	5				REDUCE POWER FOR CONTROL ROD PATTERN CHANGE.
88026	04/26/88	F	0.0	A	5				1B REACTOR RECIRCULATION PUMP MG SET FIELD BREAKER TRIP.
88027	04/26/88	F	0.0	A	5				1B REACTOR FEED PUMP BECAME STEAM BOUND FOLLOWING REACTOR RECIRCULATION PUMP TRIP (EVENT NO. 88026)
88028	04/27/88	S	0.0	B	5				REDUCE POWER FOR CONTROL ROD PATTERN CHANGE.
88029	04/28/88	S	0.0	A	5				1C CIRCULATING WATER INTAKE PUMP TRAVELING SCREEN CHAIN DRIVE HAD A CRACKED SIDEBAR. POWER REDUCED TO CHANGE OUT SIDEBAR.

* SUMMARY *

BRUNSWICK 1 INCURRED 8 POWER REDUCTIONS
IN APRIL FOR REASONS STATED ABOVE.

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

FACILITY DESCRIPTION

Report Period APR 1988

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 MARCH 7-11 (88-13): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF THE PREVIOUS OPEN ITEMS AND MARK I CONTAINMENT LONG TERM PROGRAM MODIFICATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TS 4.0.5.4.2 AND 6.8.1, ASME SECTION XI, REQUIREMENTS FOR STROKE TIMING POWER OPERATED VALVES WERE NOT PROPERLY IMPLEMENTED. CONTRARY TO TS 6.12.2, ON NOVEMBER 12, 1987, AN AUXILIARY EQUIPMENT OPERATOR (AEO) WHILE PERFORMING DAILY ROUNDS OF PLANT SYSTEMS UNLOCKED THE ENTRANCE TO THE UNIT 2, 80 FOOT EAST FUEL POOL HEAT EXCHANGER ROOM, A HIGH RADIATION AREA, AND LEFT THE AREA UNATTENDED. CONTRARY TO TS 6.11.1, TS 6.8.1, RG 1.33, APPENDIX A, SECTION I.3, PLANT PROCEDURE ENP-46, RADIATION CONTROL AND PROTECTION PROCEDURE, VOLUME VIII, SECTION 6.6.2 AND SECTION 6.6.3, THE LICENSEE FAILED TO ESTABLISH ADEQUATE RADIATION PROTECTION PROCEDURES CONCERNING HANDLING OF IRRADIATED DRY TUBES AND USING PERSONNEL MONITORING DEVICES, AND TO ADHERE TO A RADIATION CONTROL PROCEDURE.

(8800 4)

CONTRARY TO 3.8.1.1.B, REQUIREMENTS WERE NOT MET IN THAT, WITH TWO DIESEL GENERATORS INOPERABLE ON JANUARY 5, 1988, AT 3:52 P.M., THE REMAINING OPERABLE DIESEL GENERATORS WERE NOT OPERATED AT LEAST AT 1750 KW FOR 15 MINUTES WITHIN 2 HOURS. DIESEL GENERATOR

Report Period APR 1988

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

* BRUNSWICK 1 *

ENFORCEMENT SUMMARY

NO. 4 COMPLETED ITS 15 MINUTE RUN AT 6:00 P.M., ON JANUARY 5, 1988.
(8800 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ GE CR305 SERIES AUXILIARY CONTACTS (REPLACED GE CR205) USED IN SAFETY RELATED SYSTEMS WERE FOUND TO BE SICKING, AND CONSEQUENTLY CAUSING VALVE FAILURE. GE HAS CORRECTED RELATED MANUFACTURING PROBLEM, AND IS PRESENTLY TESTING THE CR305 REPLACEMENT BEFORE INSTALLATION INTO BOTH UNITS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ PLANT OPERATION AT 100% POWER.

LAST IE SITE INSPECTION DATE: MARCH 7-11, 1988 +

INSPECTION REPORT NO: 50-325/88-13 +

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

=====

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-009	03/09/88	04/05/88	ACCIDENTIAL DEENERGIZATION OF UNIT 2 PROCESS OFF-GAS RAD MONITOR AND REACTOR BLDG VENTILATION EXHAUST RAD M ONI DURING MAINT.

=====

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWh): 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

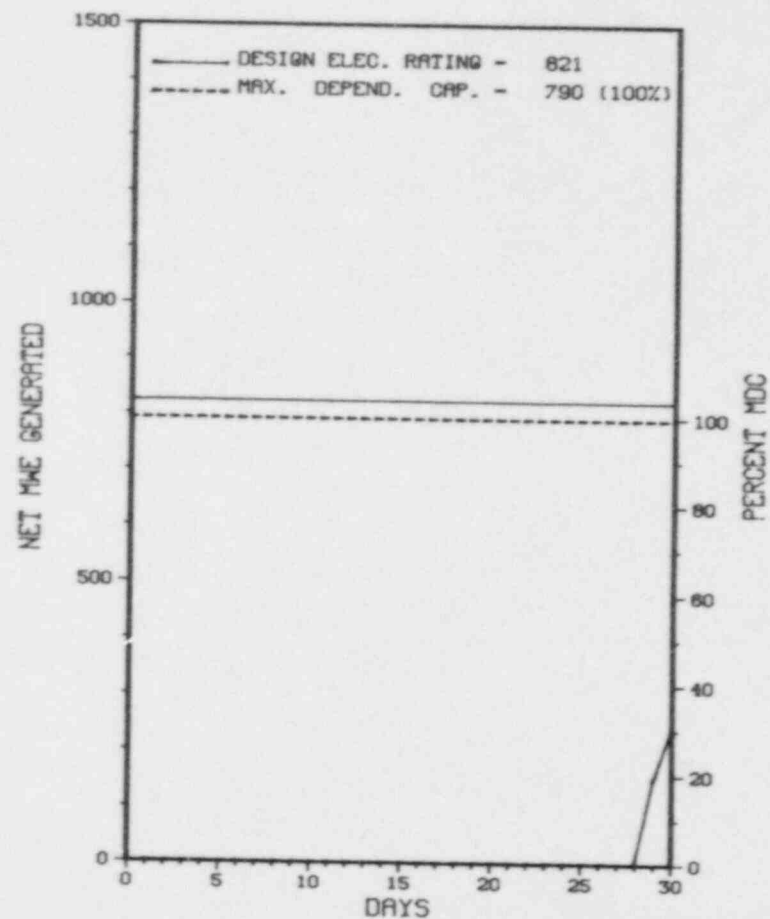
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>109,512.0</u>
13. Hours Reactor Critical	<u>124.2</u>	<u>148.5</u>	<u>67,221.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>44.9</u>	<u>69.2</u>	<u>63,315.7</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>29,407</u>	<u>67,122</u>	<u>126,654,601</u>
18. Gross Elec Ener (MWH)	<u>10,140</u>	<u>22,050</u>	<u>41,763,582</u>
19. Net Elec Ener (MWH)	<u>928</u>	<u>-554</u>	<u>40,042,275</u>
20. Unit Service Factor	<u>6.2</u>	<u>2.4</u>	<u>57.8</u>
21. Unit Avail Factor	<u>6.2</u>	<u>2.4</u>	<u>57.8</u>
22. Unit Cap Factor (MDC Net)	<u>.2</u>	<u>.0</u>	<u>46.3</u>
23. Unit Cap Factor (DER Net)	<u>.2</u>	<u>.0</u>	<u>44.5</u>
24. Unit Forced Outage Rate	<u>18.2</u>	<u>12.7</u>	<u>14.9</u>
25. Forced Outage Hours	<u>10.0</u>	<u>10.1</u>	<u>11,469.9</u>

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

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

* BRUNSWICK 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
BRUNSWICK 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BRUNSWICK 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88002	01/02/88	S	663.2	C	4		RC	FUELXX	COMPLETE REFUELING AND APPENDIX R MODIFICATIONS.
88003	04/28/88	F	10.0	A	3				TURBINE TRIP CAUSED BY LP TURBINE NO. 5 BEARING VIBRATION. TURBINE SHOT PERFORMED.
88005	04/29/88	S	0.9	B	2				PERFORM TURBINE OVERSPEED TESTING.

* SUMMARY *

BRUNSWICK 2 COMPLETED SCHEDULED REFUELING OUTAGE IN APRIL. SUBSEQUENTLY INCURRED 2 OUTAGES 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 APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION MARCH 7-11 (88-13): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF THE PREVIOUS OPEN ITEMS AND MARK I CONTAINMENT LONG TERM PROGRAM MODIFICATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TS 4.0.5.A.2 AND 6.8.1, ASME SECTION XI, REQUIREMENTS FOR STROKE TIMING POWER OPERATED VALVES WERE NOT PROPERLY IMPLEMENTED. CONTRARY TO TS 6.12.2, ON NOVEMBER 12, 1987, AN AUXILIARY EQUIPMENT OPERATOR (AEO) WHILE PERFORMING DAILY ROUNDS OF PLANT SYSTEMS UNLOCKED THE ENTRANCE TO THE UNIT 2, 80 FOOT EAST FUEL POOL HEAT EXCHANGER ROOM, A HIGH RADIATION AREA, AND LEFT THE AREA UNATTENDED. CONTRARY TO TS 6.11.1, TS 6.8.1, RG 1.33, APPENDIX A, SECTION I.3, PLANT PROCEDURE ENP-46, RADIATION CONTROL AND PROTECTION PROCEDURE, VOLUME VIII, SECTION 6.6.2 AND SECTION 6.6.3, THE LICENSEE FAILED TO ESTABLISH ADEQUATE RADIATION PROTECTION PROCEDURES CONCERNING HANDLING OF IRRADIATED DRY TUBES AND USING PERSONNEL MONITORING DEVICES, AND TO ADHERE TO A RADIATION CONTROL PROCEDURE.
(8800 4)

CONTRARY TS 3.8.1.1.B, REQUIREMENTS WERE NOT MET IN THAT, WITH TWO DIESEL GENERATORS INOPERABLE ON JANUARY 5, 1988, AT 3:52 P.M., THE REMAINING OPERABLE DIESEL GENERATORS WERE NOT OPERATED AT LEAST AT 1750 KW FOR 15 MINUTES WITHIN 2 HOURS. DIESEL GENERATOR

Report Period APR 1988

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

* BRUNSWICK 2 *

ENFORCEMENT SUMMARY

NO. 4 COMPLETED ITS 15 MINUTE RUN AT 6:00 P.M., ON JANUARY 5, 1988.
(8800 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ GE CR305 SERIES AUXILIARY CONTACTS (REPLACED GE CR205) USED IN SAFETY RELATED SYSTEMS WERE FOUND TO BE SICKING, AND CONSEQUENTLY CAUSING VALVE FAILURE. GE HAS CORRECTED RELATED MANUFACTURING PROBLEM, AND IS PRESENTLY TESTING THE CR305 REPLACEMENT BEFORE INSTALLATION INTO BOTH UNITS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ UNIT 15 SHUTDOWN TO FACILITATE SILICON-BRONZE BOLT REPLACEMENT IN DC & MOTOR CONTROL CABINETS.

LAST IE SITE INSPECTION DATE: MARCH 7-11, 1988 +

INSPECTION REPORT NO: 50-324/88-13 +

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

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

88-006	03/08/88	04/06/88	CONTROL ROD 10-39 UNKNOWINGLY WITHDRAWN WITH REACTOR PROTECTION SYSTEM SHORTING LINKS INSTALLED
88-007	03/19/88	04/18/88	PINHOLE LEAKS AND LINEAR INDICATIONS IN THE INSERT AND WITHDRAW LINES OF UNIT 2 CONTROL ROD DRIVES
=====			

1. Docket: 50-454 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1175

6. Design Electrical Rating (Net MWe): 1120

7. Maximum Dependable Capacity (Gross MWe): 1120

8. Maximum Dependable Capacity (Net MWe): 1120

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

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

11. Reasons for Restrictions, If Any: _____

STEAM GENERATOR SPLIT FLOW

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>22,992.0</u>
13. Hours Reactor Critical	<u>368.7</u>	<u>2,552.7</u>	<u>17,864.9</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>37.8</u>
15. Hrs Generator On-Line	<u>359.1</u>	<u>2,543.1</u>	<u>17,504.1</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>934,505</u>	<u>7,826,762</u>	<u>51,422,613</u>
18. Gross Elec Ener (MWH)	<u>310,196</u>	<u>2,592,971</u>	<u>17,218,748</u>
19. Net Elec Ener (MWH)	<u>283,917</u>	<u>2,443,456</u>	<u>16,182,933</u>
20. Unit Service Factor	<u>49.9</u>	<u>87.6</u>	<u>76.1</u>
21. Unit Avail Factor	<u>49.9</u>	<u>87.6</u>	<u>76.1</u>
22. Unit Cap Factor (MDC Net)	<u>35.3</u>	<u>75.2</u>	<u>62.8</u>
23. Unit Cap Factor (DER Net)	<u>35.3</u>	<u>75.2</u>	<u>62.8</u>
24. Unit Forced Outage Rate	<u>15.4</u>	<u>2.5</u>	<u>5.3</u>
25. Forced Outage Hours	<u>65.3</u>	<u>65.3</u>	<u>977.4</u>

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

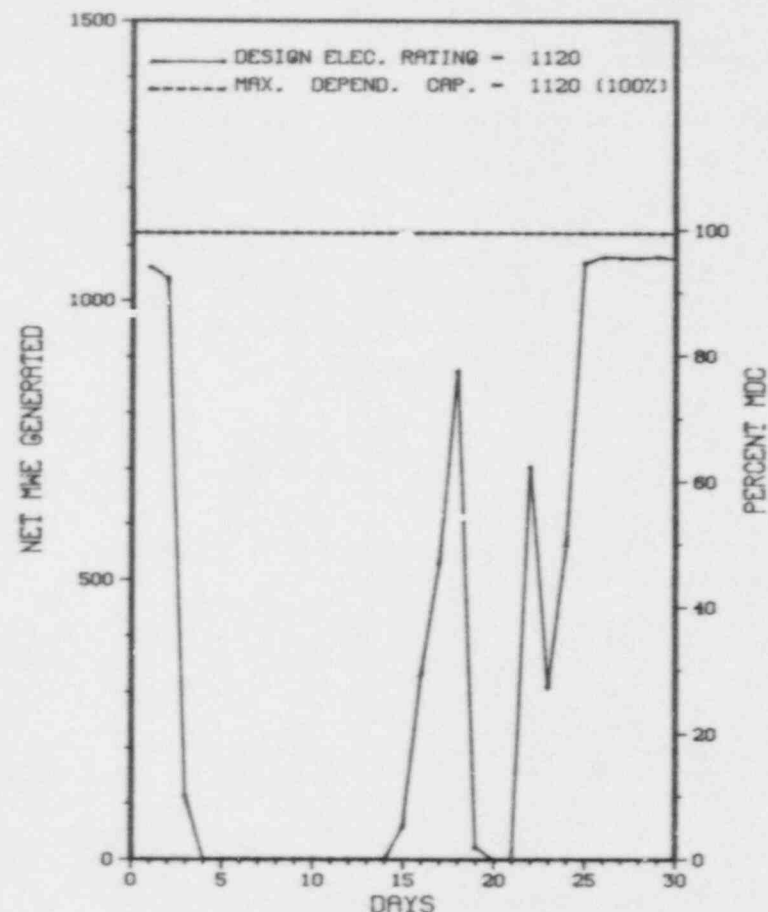
REFUELING 9/3/88.

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

 * BYRON 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * BYRON 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	04/07/88	S	294.6	A	1		SG		OUTAGE FOR SNUBBER INSPECTION AND 1D STEAM GENERATOR LEAK REPAIR.
5	04/18/88	F	65.3	A	3	6-88-002-00			RX TRIP ON POWER RANGE FLUX RATE HIGH.
6	04/23/88	S	0.0	B	5				RE-ADJUST POWER RANGE N.I. "HIGH FLUX RX TRIP" SETPOINTS.

 * SUMMARY *

 BYRON 1 INCURRED 2 OUTAGES AND 1 POWER REDUCTION DURING APRIL
 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)

* BYRON 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS
COUNTY.....OGLE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...17 MI SW OF
ROCKFORD, ILL
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...FEBRUARY 2, 1985
DATE ELEC 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 January 13 through March 17, 1988 (88005; 88004): Routine, unannounced safety inspection of licensee actions on previous inspection findings (92701, 92702) startup test results evaluation (72301, 72400, 72596, 72600, 72608, 72616, 72624); and startup test results verification (72301, 72596, 72600, 72608, 72616, 72624). No violations or deviations were identified. The licensee's review of the startup test results were adequate to address the results and any concerns identified during testing.

Inspection from February 12 - March 31, 1988 (88006; 88006): Routine, unannounced safety inspection by the resident inspectors of licensee action on previous inspection findings; licensee event reports; bulletins; generic letters; operations summary; training; surveillance; maintenance; operational safety and engineered safety features system walkdowns; event followup; followup of Region III requests; licensee action reports; engineering and technical support; and management changes. Of the 12 areas inspected, no violations or deviations were identified. One potential issue affecting the public's health and safety was identified (environmentally unqualified pressure switches).

ENFORCEMENT SUMMARY

NONE

INSPECTION STATUS - (CONTINUED)

PAGE 2-057

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: D. J. SPITZER (815)254-5441 X2023

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1175

6. Design Electrical Rating (Net MWe): 1120

7. Maximum Dependable Capacity (Gross MWe): 1120

8. Maximum Dependable Capacity (Net MWe): 1120

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

10. Power Level To Which Restricted, If Any (Net MWe): 1052

11. Reasons for Restrictions, If Any: _____

STEAM GENERATOR SPLIT FLOW.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>6,096.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,888.6</u>	<u>5,215.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,690.2</u>	<u>4,970.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,215,387</u>	<u>7,660,532</u>	<u>14,132,696</u>
18. Gross Elec Ener (MWH)	<u>765,010</u>	<u>2,561,438</u>	<u>4,665,749</u>
19. Net Elec Ener (MWH)	<u>723,376</u>	<u>2,410,588</u>	<u>4,381,489</u>
20. Unit Service Factor	<u>100.0</u>	<u>92.7</u>	<u>81.5</u>
21. Unit Avail Factor	<u>100.0</u>	<u>92.7</u>	<u>81.5</u>
22. Unit Cap Factor (MDC Net)	<u>89.8</u>	<u>74.1</u>	<u>64.2</u>
23. Unit Cap Factor (DER Net)	<u>89.8</u>	<u>74.1</u>	<u>64.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.9</u>	<u>5.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>25.2</u>	<u>313.2</u>

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

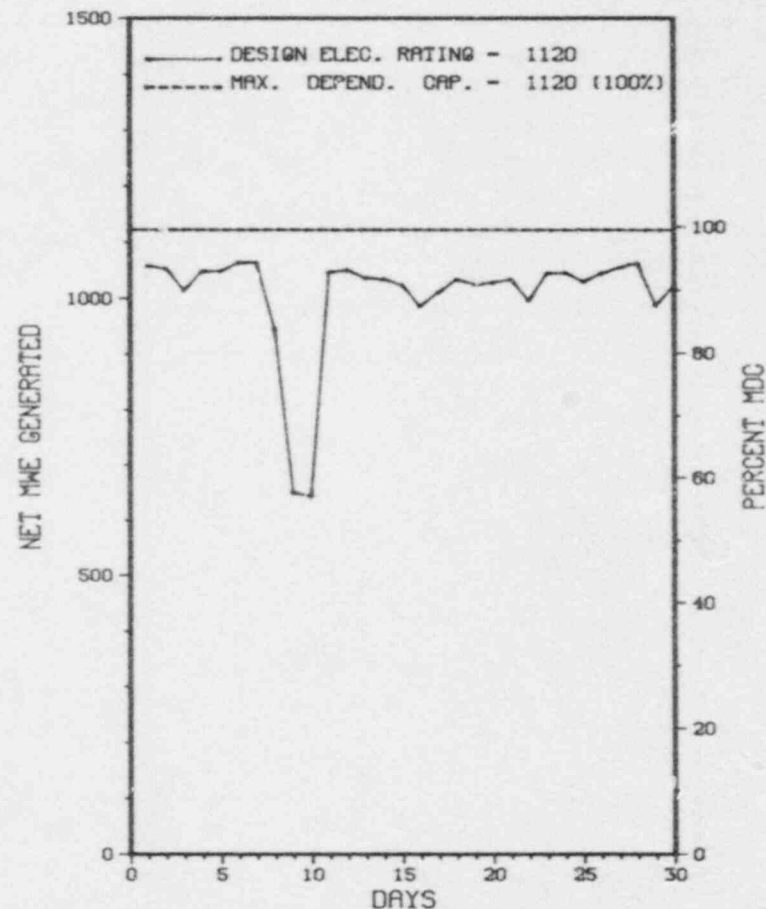
NONE

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

* BYRON 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 2



APRIL 1'88

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* BYRON 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
7	04/08/88	S	0.0	A	5		FW 2CFWPP	2C FEEDWATER PUMP LOW PRESSURE GOVERNOR VALVE.

* SUMMARY *

BYRON 2 INCURRED ONE POWER REDUCTION DURING APRIL AS
DISCUSSED 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)

* BYRON 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

Inspection from January 13 through March 17, 1988 (88005; 88004): Routine, unannounced safety inspection of licensee actions on previous inspection findings (92701, 92702) startup test results evaluation (72301, 72400, 72596, 72600, 72608, 72616, 72624); and startup test results verification (72301, 72596, 72600, 72608, 72616, 72624). No violations or deviations were identified. The licensee's review of the startup test results were adequate to address the results and any concerns identified during testing.

Inspection from February 12 - March 31, 1988 (88006; 88006): Routine, unannounced safety inspection by the resident inspectors of licensee action on previous inspection findings; licensee event reports; bulletins; generic letters; operations summary; training; surveillance; maintenance; operational safety and engineered safety features system walkdowns; event followup; followup of Region III requests; licensee action reports; engineering and technical support; and management changes. Of the 12 areas inspected, no violations or deviations were identified. One potential issue affecting the public's health and safety was identified (environmentally unqualified pressure switches).

ENFORCEMENT SUMMARY

NONE

Report Period APR 1988

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

* BYRON 2 *

OTHER

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

CHANGE NRC RESIDENT TO P BROCHMAN

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 03/31/88

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

88-02	032988	042888	COMPONENT COOLING WATER SURGE TANK LEVEL INSTRUMENTATION DIS CREPANCIES DUE TO A DESIGN ERROR
88-03	032988	042688	TECHNICAL SPECIFICATION ACTION STATEMENT NOT SATISFIED DURING UNINTENDED 2B DIESEL GENERATOR INOPERABILITY DUE TO INCORRECT DRAWING
=====			

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

2. Reporting Period: 04/01/88 Outage + On-line Mins: 719.0

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

4. Licensed Thermal Power (Mwt): 3565

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 (Not MWe): _____

11. Reasons for Restrictions, If Any: _____

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	719.0	2,903.0	29,485.5
13. Hours Reactor Critical	440.9	2,518.6	24,516.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	424.3	2,471.9	23,927.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,401,495	8,261,129	76,570,906
18. Gross Elec Ener (MWH)	472,075	2,819,443	25,861,163
19. Net Elec Ener (MWH)	441,600	2,678,320	24,567,996
20. Unit Service Factor	59.0	85.1	81.2
21. Unit Avail Factor	59.0	85.1	81.2
22. Unit Cap Factor (MDC Net)	54.8	82.4	74.4
23. Unit Cap Factor (DER Net)	52.4	78.8	71.2
24. Unit Forced Outage Rate	15.1	7.9	4.5
25. Forced Outage Hours	75.3	211.7	1,115.2

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

NONE

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

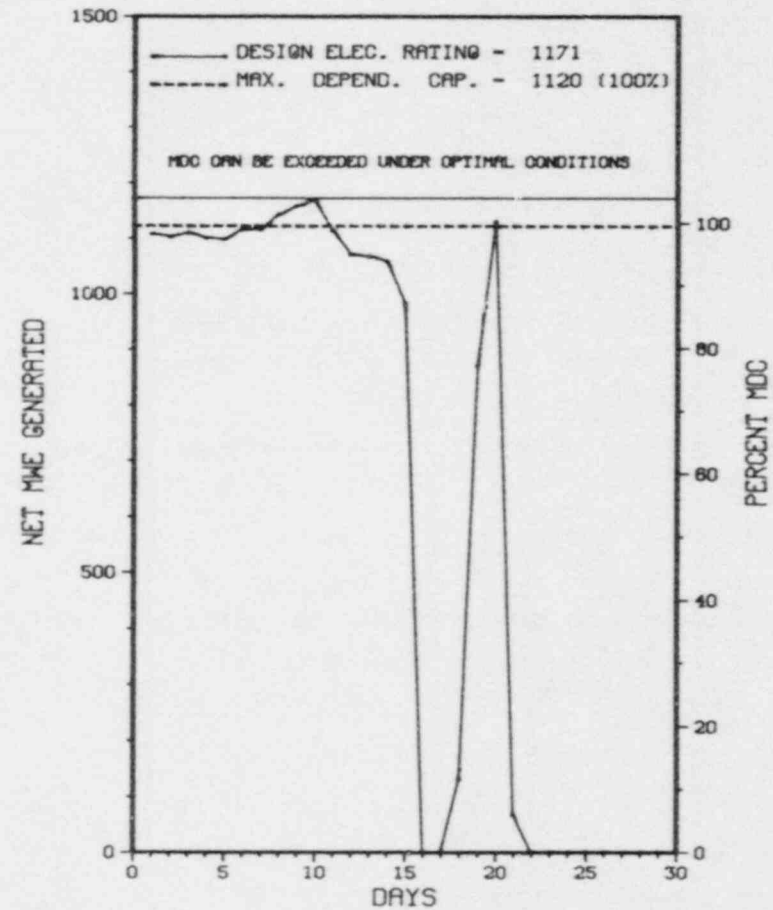
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*****
*                CALLAWAY 1                *
*****

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AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALLAWAY 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* CALLAWAY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	04/11/88	F	0.0	A	5				REDUCE POWER TO 94% DUE TO TUBE LEAK IN THE 1C FEEDWATER HEATER.
5	04/16/88	S	39.1	A	1				SHUTDOWN TO REPAIR TUBE LEAK IN 1C FEEDWATER HEATER.
6	04/17/88	F	18.6	A	5				TURBINE/REACTOR TRIP DUE TO STEAM GENERATOR LEVEL OSCILLATIONS DURING PLANT STARTUP. LER 88-005-0.
7	1/88	F	56.7	A	2				TURBINE/REACTOR TRIP DUE TO FAILURE OF 'C' FEED REG VALVE. LER 88-006-0.
8	04/23/88	S	180.3	A	1				COOLDOWN TO MODE 5 TO REPAIR LEAKING CONOSEAL.

* SUMMARY *

CALLAWAY 1 HAD 4 OUTAGES AND 1 POWER REDUCTION IN APRIL 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	G-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)

* CALLAWAY 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MISSOURI

COUNTY.....CALLAWAY

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...10 MI SE OF
FULTON, MO

TYPE OF REACTOR.....PWR

DATE INTIAL CRITICALITY...OCTOBER 2, 1984

DATE ELEC ENER 1ST GENER...OCTOBER 24, 1984

DATE COMMERCIAL OPERATE...DECEMBER 19, 1984

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER...MISSOURI RIVER

ELECTRIC RELIABILITY
COUNCIL.....MID-AMERICA
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....UNION ELECTRIC

CORPORATE ADDRESS.....P.O. BOX 149
ST LOUIS, MISSOURI 63166

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....DANIEL INTERNATIONAL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....B. LITTLE

LICENSING PROJ MANAGER.....T. ALEXION
DOCKET NUMBER.....50-483

LICENSE & DATE ISSUANCE...NPF-30, OCTOBER 18, 1984

PUBLIC DOCUMENT ROOM.....WASHINGTON UNIVERSITY
JOHN M. OLIN LIBRARY
SKINKER & LINDELL BLVD.
ST. LOUIS MO. 63130

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

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

INSPECTION STATUS - (CONTINUED)

* CALLAWAY 1 *

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

LAST IE SITE INSPECTION DATE: 03/03/88

INSPECTION REPORT NO: 88005

REPORTS FROM LICENSEE

[illegible]

1. Docket: 50-317 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 2700

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

6. Design Electrical Rating (Net MWe): 845

7. Maximum Dependable Capacity (Gross MWe): 860

8. Maximum Dependable Capacity (Net MWe): 825

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

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

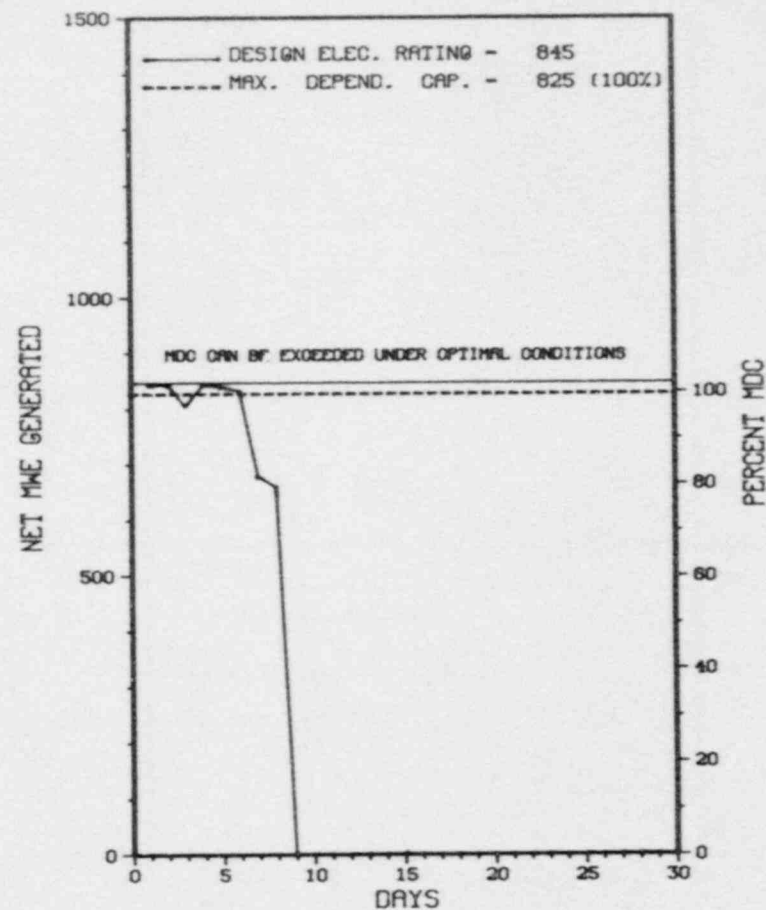
11. Reasons for Restrictions, If Any: _____
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>113,796.0</u>
13. Hours Reactor Critical	<u>194.3</u>	<u>2,378.3</u>	<u>88,765.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>2,299.2</u>
15. Hrs Generator On-Line	<u>192.9</u>	<u>2,351.3</u>	<u>86,804.2</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>470,945</u>	<u>6,099,545</u>	<u>218,174,263</u>
18. Gross Elec Ener (MWH)	<u>158,913</u>	<u>2,051,480</u>	<u>72,267,081</u>
19. Net Elec Ener (MWH)	<u>151.854</u>	<u>1,967,731</u>	<u>68,983,248</u>
20. Unit Service Factor	<u>26.8</u>	<u>31.0</u>	<u>76.3</u>
21. Unit Avail Factor	<u>26.8</u>	<u>81.0</u>	<u>76.3</u>
22. Unit Cap Factor (MDC Net)	<u>25.6</u>	<u>82.2</u>	<u>73.5*</u>
23. Unit Cap Factor (DER Net)	<u>25.0</u>	<u>80.2</u>	<u>71.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>1.1</u>	<u>9.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>25.6</u>	<u>8,607.8</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Startup Date: 05/29/88

* CALVERT CLIFFS 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
CALVERT CLIFFS 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * CALVERT CLIFFS 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	04/09/88	S	526.1	C	1				SHUTDOWN FOR REFUELING OPERATIONS.

 * SUMMARY *

 CALVERT CLIFFS 1 SHUTDOWN FOR SCHEDULED
 REFUELING OUTAGE IN APRIL.

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 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MARYLAND

COUNTY.....CALVERT

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...40 MI S OF
ANNAPOLIS, MD

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...OCTOBER 7, 1974

DATE ELEC ENER 1ST GENER...DECEMBER 30, 1974

DATE COMMERCIAL OPERATE...MAY 8, 1975

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING 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

LICFNSE & DATE ISSUANCE...DPR-53, JULY 31, 1974

PUBLIC DOCUMENT ROOM.....CALVERT COUNTY LIBRARY
FOURTH STREET
PRINCE FREDERICK, MARYLAND 20618

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 APR 1988

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: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWh): 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):

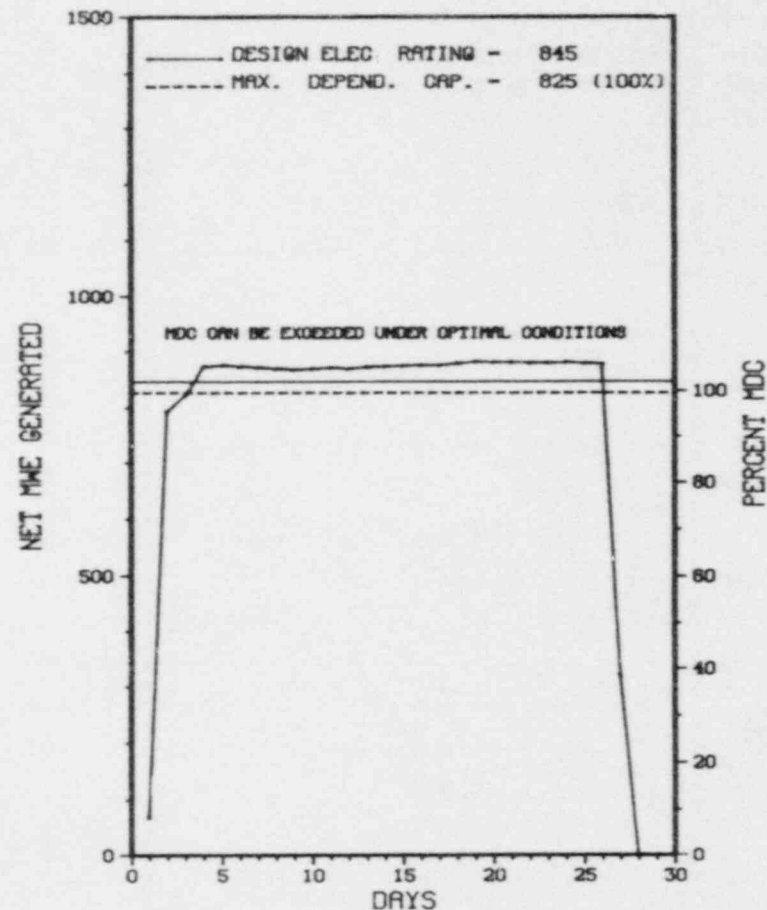
11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>97,151.0</u>
13. Hours Reactor Critical	<u>618.0</u>	<u>1,975.7</u>	<u>79,818.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,296.0</u>
15. Hrs Generator On-Line	<u>613.4</u>	<u>1,961.3</u>	<u>78,647.0</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,638,533</u>	<u>5,194,779</u>	<u>198,535,442</u>
18. Gross Elec Ener (MWH)	<u>551,496</u>	<u>1,762,169</u>	<u>65,650,305</u>
19. Net Elec Ener (MWH)	<u>530,227</u>	<u>1,691,405</u>	<u>62,680,302</u>
20. Unit Service Factor	<u>85.3</u>	<u>67.7</u>	<u>81.0</u>
21. Unit Avail Factor	<u>85.3</u>	<u>67.7</u>	<u>81.0</u>
22. Unit Cap Factor (MDC Net)	<u>89.4</u>	<u>70.6</u>	<u>78.2</u>
23. Unit Cap Factor (DER Net)	<u>87.3</u>	<u>69.0</u>	<u>76.4</u>
24. Unit Forced Outage Rate	<u>12.4</u>	<u>5.0</u>	<u>5.6</u>
25. Forced Outage Hours	<u>87.2</u>	<u>103.0</u>	<u>4,675.5</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

27. If Currently Shutdown Estimated Startup Date: 05/02/88

 * CALVERT CLIFFS 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 CALVERT CLIFFS 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* CALVERT CLIFFS 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-06	02/27/88	S	18.4	B	4				CONTINUED SHUTDOWN FOR PRE-SUMMER GENERAL MAINTENANCE MINI-OUTAGE.
88-07	04/27/88	F	87.2	A	2	88-04	HB	PUMPXX	TRIP ON LOW STEAM GENERATOR WATER LEVEL BECAUSE 21 SGFP TRIPPED FOR NO APPARENT REASON. THERE WERE NO PRIOR (OR SUBSEQUENT) SYMPTOMS. 1. MONITOR TRIP CIRCUITRY TO FIND ROOT CAUSE. 2. EVALUATE POSSIBLE REPLACEMENT OF INSTALLED THRUST BEARING WEAR MONITOR.

* SUMMARY *

CALVERT CLIFFS 2 COMPLETED PRE-SUMMER GENERAL MAINTENANCE MINI-OUTAGE. SUBSEQUENTLY INCURRED 1 FORCED OUTAGE 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)

* CALVERT CLIFFS 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MARYLAND
COUNTY.....CALVERT
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...40 MI S OF
ANNAPOLIS, MD
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...NOVEMBER 30, 1976
DATE ELEC ENR 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 APR 1988

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

* CALVERT CLIFFS 2 *

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (Mwt): 3411

5. Nameplate Rating (Gross MWe): 1305

6. Design Electrical Rating (Net MWe): 1145

7. Maximum Dependable Capacity (Gross MWe): 1145

8. Maximum Dependable Capacity (Net MWe): 1129

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

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

11. Reasons for Restrictions, If Any: _____

NONE

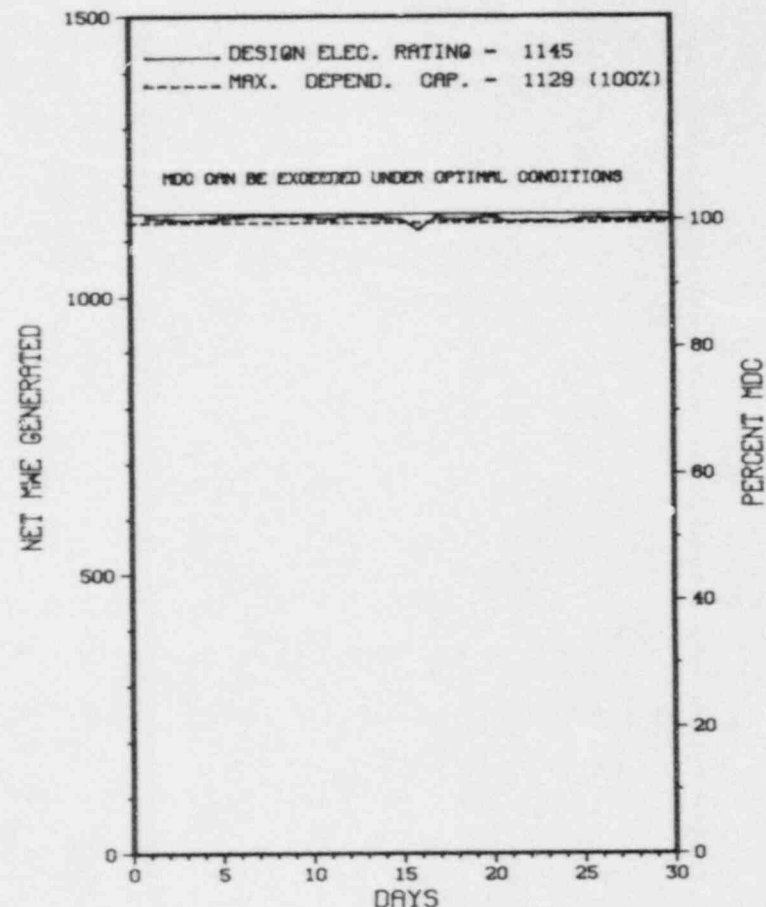
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,703.0</u>	<u>24,888.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,616.8</u>	<u>17,730.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,573.6</u>	<u>17,172.9</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,413,567</u>	<u>8,292,891</u>	<u>54,347,755</u>
18. Gross Elec Ener (MWH)	<u>860,692</u>	<u>2,945,762</u>	<u>19,036,884</u>
19. Net Elec Ener (MWH)	<u>816,617</u>	<u>2,776,677</u>	<u>17,777,522</u>
20. Unit Service Factor	<u>100.0</u>	<u>88.7</u>	<u>69.0</u>
21. Unit Avail Factor	<u>100.0</u>	<u>88.7</u>	<u>69.0</u>
22. Unit Cap Factor (MDC Net)	<u>100.6</u>	<u>84.7</u>	<u>63.3</u>
23. Unit Cap Factor (DER Net)	<u>99.2</u>	<u>83.5</u>	<u>62.4</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>11.3</u>	<u>17.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>128.9</u>	<u>3,588.0</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

NONE

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

 * CATAWBA 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 CATAWBA 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * CATAWBA 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
31-P	04/14/88	F	0.0	A	5		HH	PIPEXX	POWER REDUCTION DUE TO MAIN STEAM LINE WELD LEAKING, CAUSING LOSS OF VACUUM.
32-P	04/16/88	S	0.0	B	5		HB	VALVEX	REDUCTION DUE TO CONTROL VALVE MOVEMENT TEST

 * SUMMARY *

 CATAWBA 1 INCURRED 2 POWER REDUCTIONS IN
 APRIL 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)

* CATANBA 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....SOUTH CAROLINA
COUNTY.....YORK
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...6 MI NNW OF
ROCK HILL, SC
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...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

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION FEBRUARY 22-26 (88-12): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF THE RADIATION PROTECTION ASPECTS OF THE UNIT 2 OUTAGE INCLUDING: AUDITS AND SURVEILLANCES; PLANNING AND PREPARATION; TRAINING AND QUALIFICATION; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS AND MONITORING; THE PROGRAM TO MAINTAIN EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA) AND FOLLOWUP ON PREVIOUS ENFORCEMENT ITEMS AND IE NOTICES. ONE LICENSEE IDENTIFIED VIOLATION WAS IDENTIFIED: FAILURE OF AN INDIVIDUAL TO WEAR AN INTEGRATING, ALARMING DOSIMETER IN A HIGH RADIATION AREA (HRA).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X          CATAWBA 1          X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NONE.

LAST IE SITE INSPECTION DATE: FEBRUARY 22-26, 1988 +

INSPECTION REPORT NO: 50-413/88-12 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-012	02/08/88	03/31/88	INADVERTENT RELEASE DUE TO LEAKAGE FOLLOWING SYSTEM MAINTENANCE
88-014	01/13/88	04/01/88	INOPERABLE FIRE BARRIER IN VIOLATION OF TS DUE TO THE INSTALLATION OF TELEPHONE WIRE BECAUSE OF A MGT DEFICIENCY
88-015	03/09/88	04/08/88	DEGRADED PERFORMANCE OF UNIT 1 AUXILIARY FEEDWATER SYSTEM AND REQUIREMENT SHUTDOWN OF BOTH UNITS DUE TO A STATIC CLAM INFEST NSWS
88-017	03/17/88	04/15/88	INADVERTENT ACTUATION OF A REACTOR TRIP BREAKER DUE TO A PERSONNEL ERROR

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1305

6. Design Electrical Rating (Net MWe): 1145

7. Maximum Dependable Capacity (Gross MWe): 1145

8. Maximum Dependable Capacity (Net MWe): 1129

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

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

11. Reasons for Restrictions, If Any: _____

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>14,904.0</u>
13. Hours Reactor Critical	<u>566.4</u>	<u>944.1</u>	<u>9,549.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>556.6</u>	<u>871.6</u>	<u>9,216.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,523,048</u>	<u>2,363,133</u>	<u>28,090,626</u>
18. Gross Elec Ener (MWH)	<u>530,403</u>	<u>821,690</u>	<u>9,898,718</u>
19. Net Elec Ener (MWH)	<u>491,127</u>	<u>726,799</u>	<u>9,193,496</u>
20. Unit Service Factor	<u>77.4</u>	<u>30.0</u>	<u>61.8</u>
21. Unit Avail Factor	<u>77.4</u>	<u>30.0</u>	<u>61.8</u>
22. Unit Cap Factor (MDC Net)	<u>60.5</u>	<u>22.2</u>	<u>54.6</u>
23. Unit Cap Factor (DER Net)	<u>59.7</u>	<u>21.9</u>	<u>53.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>34.7</u>	<u>29.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>463.5</u>	<u>3,857.5</u>

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

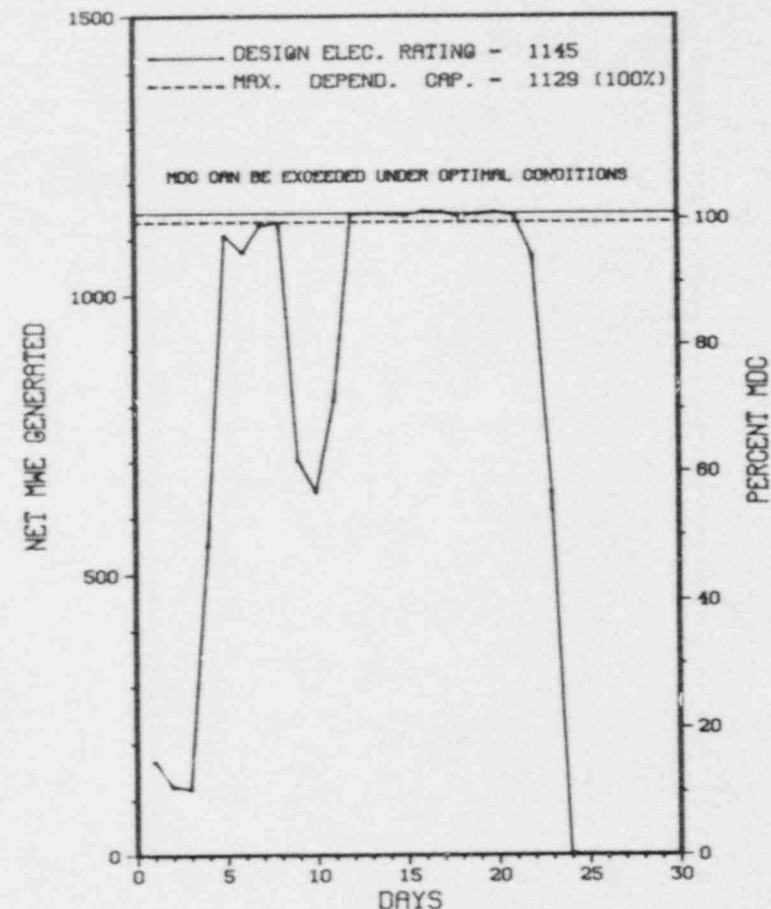
NONE

27. If Currently Shutdown Estimated Startup Date: 05/03/88

 * CATAWBA 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CATAWBA 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * CATAWBA 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
18-P	04/01/88	F	0.0	B	5		HH	VALVEX	POWER DECREASE TO REPAIR STEAM GENERATOR '2A' FEEDWATER CONTROL VALVE.
20-P	04/04/88	S	0.0	B	5		CB	INSTRU	HOLDING POWER FOR REACTOR COOLANT SYSTEM LEAKAGE CALCULATION
23-P	04/05/88	F	0.0	H	5		CB	XXXXXX	POWER DECREASE DUE TO LOW SUBCOOLING ON TRAIN A INADEQUATE CORE COOLING SYSTEM MONITOR
29-P	04/23/88	F	0.0	A	5		HA	XXXXXX	POWER REDUCTION DUE TO GROUND FAULT ON EXCITER FIELD
8	04/24/88	S	162.4	B	1		HA	XXXXXX	UNIT REMOVED FROM SERVICE TO REPAIR EXCITER GROUND FAULT

 * SUMMARY *

 CATAWBA 2 INCURRED 1 POWER OUTAGE AND SEVERAL POWER REDUCTIONS IN APRIL 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)

 * CATAWBA 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....SOUTH CAROLINA
 COUNTY.....YORK
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...6 MI NNW OF
 ROCK HILL, SC
 TYPE OF REACTOR.....PWR
 DATE INITIAL CRITICALITY...MAY 8, 1986
 DATE ELEC ENER 1ST 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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 22-26 (88-12): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF THE RADIATION PROTECTION ASPECTS OF THE UNIT 2 OUTAGE INCLUDING: AUDITS AND SURVEILLANCES; PLANNING AND PREPARATION; TRAINING AND QUALIFICATION; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS AND MONITORING; THE PROGRAM TO MAINTAIN EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA) AND FOLLOWUP ON PREVIOUS ENFORCEMENT ITEMS AND IE NOTICES. ONE LICENSEE IDENTIFIED VIOLATION WAS IDENTIFIED: FAILURE OF AN INDIVIDUAL TO WEAR AN INTEGRATING, ALARMING DOSIMETER IN A HIGH RADIATION AREA (HRA).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

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

* CATAWBA 2 *

OTHER ITEMS

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NONE.

LAST IE SITE INSPECTION DATE: FEBRUARY 22-26, 1988 +

INSPECTION REPORT NO: 50-414/88-12 +

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

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

88-011	12/29/87	04/01/88	ESSENTIAL SWITCHGEAR INCOMING BREAKER FAILS TO TRIP DURING TESTING DUE TO OPEN SLIDING LINK IN CONTROL CIRCUIT
88-012	03/09/88	04/08/88	REACTOR TRIP FOLLOWED BY AN AUXILIARY FEEDWATER SUCTION SWAP TO THE NUCLEAR SERVICE WATER SYSTEM DUE TO EQUIPMENT FAILURES
88-013	03/14/88	04/13/88	FEEDWATER ISOLATION CAUSED BY STEAM GENERATOR HIGH LEVEL DUE TO A VALVE FAILURE AND A PERSONNEL ERROR
88-014	03/17/88	04/15/88	AUXILIARY FEEDWATER AUTO START FOLLOWED BY AUX FEEDWATER SUCTION SWAP TO THE NUCLEAR SERVICE WATER SYSTEM DUE TO DELAMINATED COAT MAT.
=====			

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 2894

5. Nameplate Rating (Gross MWe): _____

6. Design Electrical Rating (Net MWe): 933

7. Maximum Dependable Capacity (Gross MWe): 933

8. Maximum Dependable Capacity (Net MWe): 930

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

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

11. Reasons for Restrictions, If Any: _____

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>3,801.3</u>
13. Hours Reactor Critical	<u>.0</u>	<u>1,875.3</u>	<u>2,773.6</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>1,870.5</u>	<u>2,768.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>5,085.874</u>	<u>7,231,374</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>1,703,040</u>	<u>2,419,690</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>1,628,016</u>	<u>2,312,119</u>
20. Unit Service Factor	<u>.0</u>	<u>64.4</u>	<u>72.8</u>
21. Unit Avail Factor	<u>.0</u>	<u>64.4</u>	<u>72.8</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>60.3</u>	<u>65.4</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>60.1</u>	<u>65.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>0</u>	<u>.0</u>
25. Forced Outage Hours	<u>.0</u>	<u>0</u>	<u>.0</u>

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

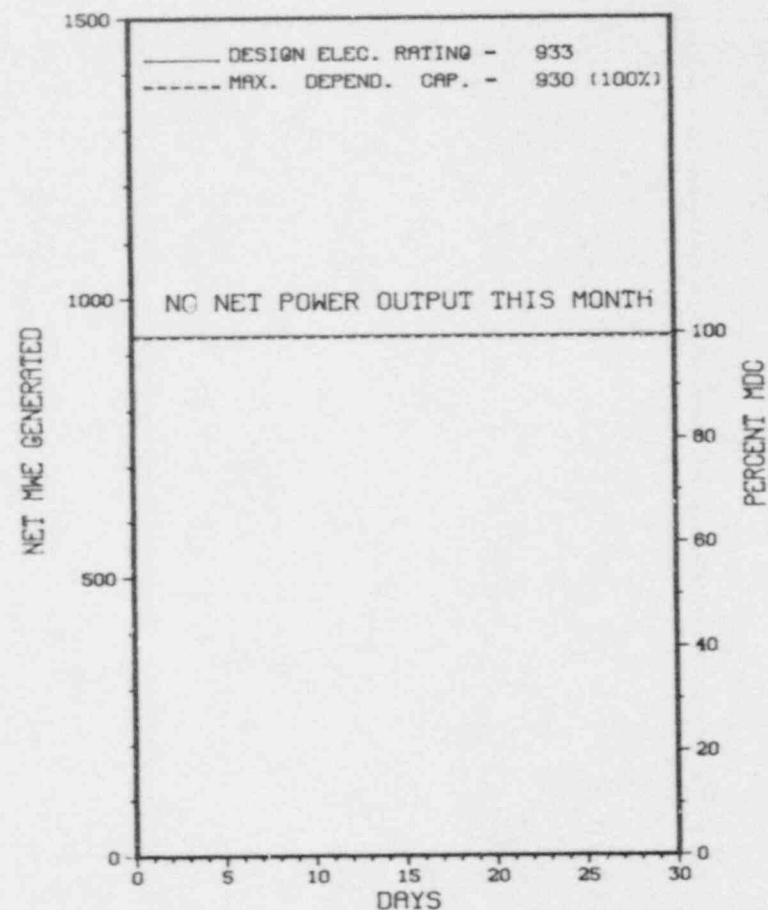
NONE

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

* CLINTON 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CLINTON 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* CLINTON 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8	03/19/88	S	719.0	B	4				PLANT SHUTDOWN TO PERFORM SURVEILLANCE TESTING AND SCHEDULED MAINTENANCE.

* SUMMARY *

CLINTON 1 REMAINED SHUTDOWN IN APRIL TO PERFORM SURVEILLANCE TESTING AND SCHEDULED 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	Licenses Event Report
	& License Examination		9-Other	(LER) File (NUREG-0161)

 * CLINTON 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

Inspection on February 24-26, 1988 (88005): Routine, unannounced inspection of the solid radwaste program, including: organization and management controls (IP 83722), qualifications and training (IP 83723), solid radwaste (IP 84721), and transportation activities (IP 84721). Also reviewed were an apparent resin intrusion into the liquid radwaste stream, a licensee investigation of a former employee's concerns (IP 99024), and previous inspection findings (IP 92701). The licensee's solid radwaste and transportation programs appear to satisfy NRC, DOT, and burial site requirements for processing, packaging, and disposal of solid radwaste. Waste appears to be solidified in accordance with the licensee's approved Process Control Program to meet applicable federal and state regulations. No violations or deviations were identified.

Inspection on January 15 through April 6, 1988 (88002): Routine, unannounced safety inspection of actions on a previously identified item (92701), and review of startup test results (72532, 92301). Of the two areas inspected, no violations or deviations were identified. Overall, the licensee appeared to have well documented test packages that included all required data/information to establish proper validation of test results against approved acceptance criteria.

Inspection on April 5-8, 1988 (88011): Included a review of a licensee reported security event on April 14, 1988. The licensee was found to be in apparent noncompliance with NRC requirements as noted below: Access Control - Personnel: The licensee failed to adequately control access to a vital area because of the ineffectiveness of compensatory measures.

Inspection on March 14-18, March 28-31, and April 6, 1988 (88006): Routine, unannounced inspection by two region based inspectors of the modification process and associated quality verification process, and followup of previous inspector identified problems.

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X          CLINTON 1                      X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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The inspection was conducted utilizing portions of Inspection Procedure 37702. No violations were identified.

NONE

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: 04/08/88

INSPECTION REPORT NO: 88011

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-07	031488	041388	FAILURE TO UNDERSTAND DIESEL GENERATOR (DG) VENTILATION OFF-NORMAL OPERATION RESULTS IN IMPAIRED FIRE PROTECTION AND TEMPERATURE CONTROL IN THE DG ROOMS
88-10	040188	042188	OVERSIGHT BY UTILITY-LICENSED OPERATORS RESULTS IN FAILURE TO PERFORM SHIFT CONTROL ROOM OPERATOR SURVEILLANCE LOG

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWh): 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>719.0</u>	<u>2,903.0</u>	<u>116,855.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,850.3</u>	<u>84,687.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>463.0</u>
15. Hrs Cenerator On-Line	<u>719.0</u>	<u>2,838.0</u>	<u>83,075.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>321.0</u>
17. Gross Therm Ener (MWH)	<u>2,089,788</u>	<u>8,171,533</u>	<u>241,162,903</u>
18. Gross Elec Ener (MWH)	<u>681,160</u>	<u>2,663,920</u>	<u>78,808,590</u>
19. Net Elec Ener (MWH)	<u>655,125</u>	<u>2,560,859</u>	<u>75,791,857</u>
20. Unit Service Factor	<u>100.0</u>	<u>97.8</u>	<u>72.3</u>
21. Unit Avail Factor	<u>100.0</u>	<u>97.8</u>	<u>72.3</u>
22. Unit Cap Factor (MDC Net)	<u>89.3</u>	<u>86.5</u>	<u>64.7</u>
23. Unit Cap Factor (DER Net)	<u>88.5</u>	<u>85.6</u>	<u>62.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.9</u>	<u>8.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>26.5</u>	<u>6,644.7</u>

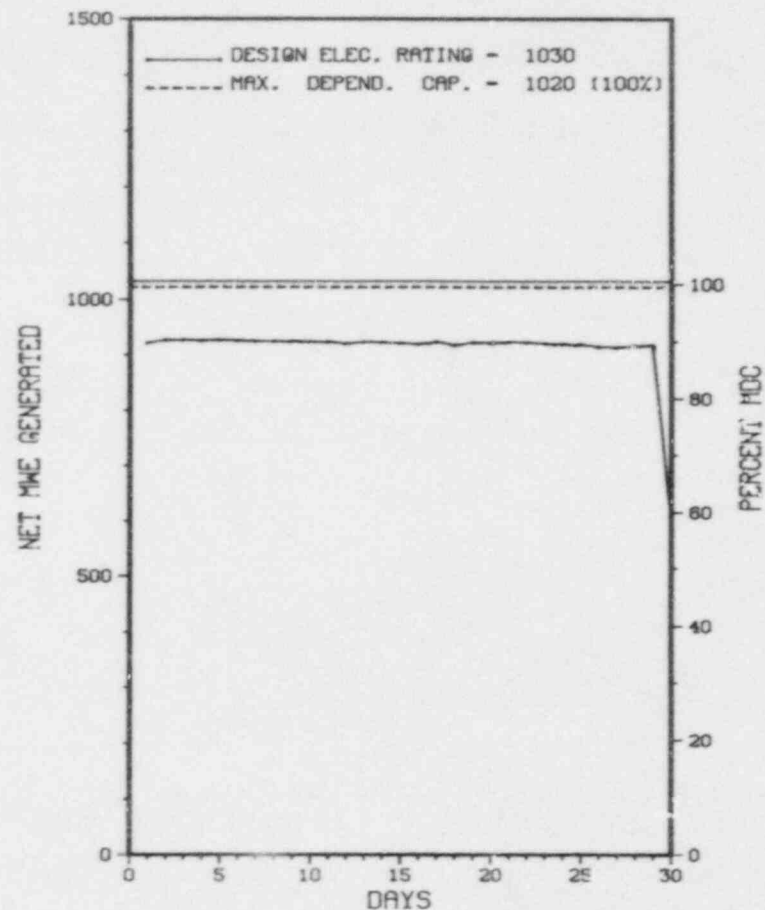
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

NONE

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

 X COOK 1 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 COOK 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* COOK 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
269	04/30/88	S	0.0	B	5		HF	HTEXCH	UNIT POWER WAS REDUCED TO 58% TO CLEAN THE MAIN FEED PUMP TURBINE CONDENSER WATERBOXES. POWER WAS RESTORED TO 90% (ADMINISTRATIVE LIMIT) ON 5-1-88.

* SUMMARY *

COOK 1 INCURRED 1 POWER REDUCTION IN APRIL FOR REASONS STATED ABOVE WHILE OPERATING AT AN ADMINISTRATIVE IMPOSED LEVEL OF 90% POWER.

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 APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

Inspection on February 8-26, 1988 (88007; 88008): This special safety inspection was conducted to determine the adequacy of the licensee's 10 CFR 50.59 safety evaluations. This was an announced inspection conducted under IE Module 92702. The licensee's safety evaluations were judged to be adequate. The use of a dedicated group to perform these evaluations was considered a major strength. This resulted in generally comprehensive safety evaluations. One weakness noted was the failure to directly address the three criteria defining an unreviewed safety question in the safety evaluation documentation. This led to some doubts in certain instances as to whether or not these criteria had been thoroughly addressed. No violations or deviations were identified.

INSPECTION ON JANUARY 27 THROUGH MARCH 14, 1988 (88008; 88009): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF : ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; PLANT OPERATIONS; RADIOLOGICAL CONTROLS; MAINTENANCE; SURVEILLANCE FIRE PROTECTION; SECURITY; QUALITY PROGRAM ACTIVITIES; AND NRC INFORMATION NOTICES. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN ANY AREAS.

INSPECTION ON MARCH 15-31, 1988 (88013; 88015): 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 TI2515/64RI AND TI2515/91. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* COOK 1 *

ENFORCEMENT SUMMARY

FAILURE TO ADEQUATELY IMPLEMENT A COMPENSATORY MEASURE.

(8800 4)

10 CFR 50, APPENDIX B, CRITERION V, AS IMPLEMENTED BY THE D. C. COOK OPERATIONS QUALITY ASSURANCE PROGRAM, REQUIRES THAT ACTIVITIES AFFECTING QUALITY BE PRESCRIBED BY AND PERFORMED IN ACCORDANCE WITH DOCUMENTED PROCEDURES. CONTRARY TO THE ABOVE, ON MAY 19, 1985, THE MAINTENANCE DEPARTMENT REPLACED A UNIT 1 CONTAINMENT ISOLATION BUTTERFLY VALVE, NUMBER CCM-451, MANUFACTURED BY CENTERLINE, WITH A SIMILAR VALVE MANUFACTURED BY PRATT, WITHOUT FIRST PROCESSING A REQUEST FOR CHANGE REQUIRED BY SECTION 5.2 OF PMI 5040.

(8800 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

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

THE UNIT OPERATED NORMALLY THROUGHOUT THE MONTH EXCEPT FOR ICE CONDENSER SURVEILLANCE OUTAGE DURING MARCH 26-27, 1988.

LAST IE SITE INSPECTION DATE: 03/31/88

INSPECTION REPORT NO: 88013

REPORTS FROM LICENSEE

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=====
NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT    REPORT
-----
88-02     040488     040488     SECURITY SAFEGUARDS EVENT
88-02     032688     042588     ICE BUILDUP IN ICE CONDENSER FLOW PASSAGES DUE TO SUBLIMATION
=====
```


Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * COOK 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
189	04/23/88	S	187.9	C	1		ZZ	ZZZZZZ	A POWER COASTDOWN WAS BEGUN ON 4-18-88 IN PREPARATION FOR THE STEAM GENERATOR REPLACEMENT/REFUELING OUTAGE. ON 4-23-88 THE UNIT WAS REMOVED FROM SERVICE. THE REPORTING PERIOD ENDED WITH THE RCS IN MODE 5 DRAINING TO HALF-LOOP. THE EXPECTED RETURN TO SERVICE DATE IS FEB. 1989.

 * SUMMARY *

 COOK 2 OPERATED AT A NOMINAL 80% ADMINISTRATIVELY IMPOSED POWER LEVEL DURING APRIL. SHUTDOWN ON APRIL 24 FOR SCHEDULED REFUELING S.G. REPLACEMENT 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)

* COOK 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MICHIGAN
COUNTY.....BERRIEN
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...11 MI S OF
BENTON HARBOR, MI

TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...MARCH 10, 1978
DATE ELEC LNER 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 February 8-26, 1988 (88007; 88008): This special safety inspection was conducted to determine the adequacy of the licensee's 10 CFR 50.59 safety evaluations. This was an announced inspection conducted under IE Module 92702. The licensee's safety evaluations were judged to be adequate. The use of a dedicated group to perform these evaluations was considered a major strength. This resulted in generally comprehensive safety evaluations. One weakness noted was the failure to directly address the three criteria defining an unreviewed safety question in the safety evaluation documentation. This led to some doubts in certain instances as to whether or not these criteria had been thoroughly addressed. No violations or deviations were identified.

INSPECTION ON JANUARY 27 THROUGH MARCH 14, 1988 (88008; 88009): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF: ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; PLANT OPERATIONS; RADIOLOGICAL CONTROLS; MAINTENANCE; SURVEILLANCE FIRE PROTECTION; SECURITY; QUALITY PROGRAM ACTIVITIES; AND NRC INFORMATION NOTICES. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN ANY AREAS.

INSPECTION ON MARCH 15-31, 1988 (88013; 88015): 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 TI2515/64RI AND TI2515/91. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION STATUS - (CONTINUED)

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*****
*                COOK 2                *
*****

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FAILURE TO ADEQUATELY IMPLEMENT A COMPENSATORY MEASURE.

(8800 4)

SYSTEMS AND COMPONENT PROBLEMS:

DONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT OPERATED NORMALLY THROUGHOUT THE MONTH.

LAST IE SITE INSPECTION DATE: 03/31/88

INSPECTION REPORT NO: 88015

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-03	031188	041188	REPETITIVE VIOLATION OF ESF INSTRUMENTATION LIMITING CONDITIONS FOR OPERATION TOLERANCES DUE TO HIGHLY RESTRICTIVE ALLOWABLE VALUES

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. T. SCHEUERMAN (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): _____

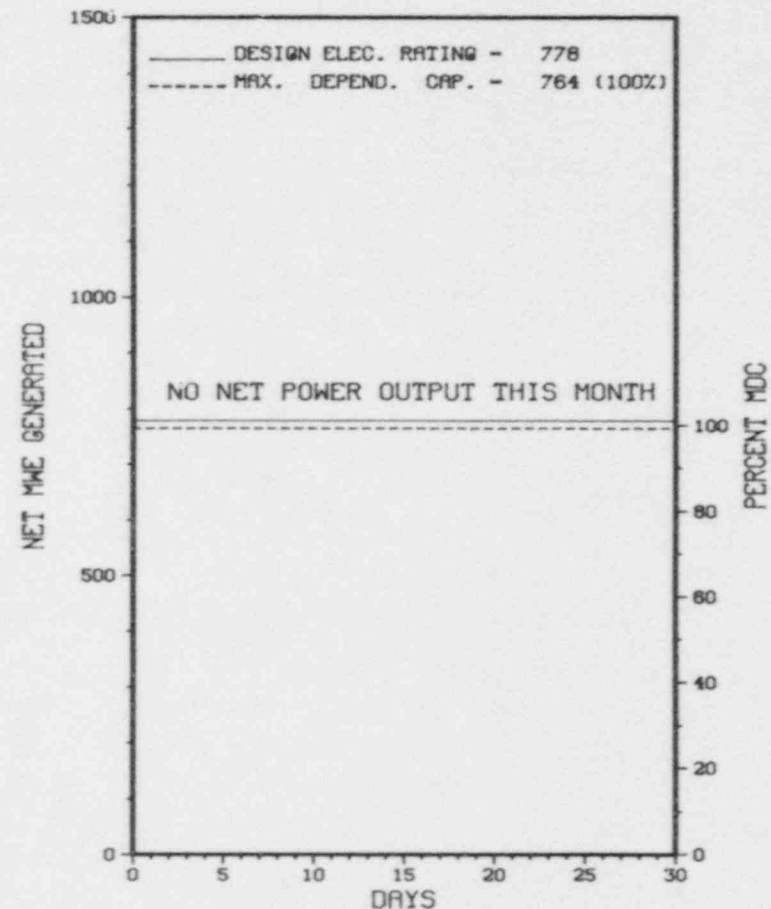
11. Reasons for Restrictions, If Any: _____
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>121,272.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>1,297.0</u>	<u>91,304.4</u>
14. Ex Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>1,281.2</u>	<u>89,825.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>2,629,440</u>	<u>177,260,147</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>872,027</u>	<u>56,931,108</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>840,096</u>	<u>54,868,720</u>
20. Unit Service Factor	<u>.0</u>	<u>46.1</u>	<u>74.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>44.1</u>	<u>74.1</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>37.9</u>	<u>59.2</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>37.2</u>	<u>58.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>16.8</u>	<u>4.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>259.3</u>	<u>3,953.6</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Startup Date: 05/19/88

* COOPER STATION *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
COOPER STATION



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * COOPER STATION *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Use & Corrective Action to Prevent Recurrence
88-02	03/05/88	S	719.0	C	4				REACTOR SHUTDOWN FOR 1988 (EOC11) REFUELING AND MAINTENANCE OUTAGE.

 * SUMMARY *

 COOPER STATION REMAINED SHUTDOWN FOR SCHEDULED
 REFUELING AND MAINTENANCE OUTAGE.

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

X COOPER STATION X

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV
IE RESIDENT INSPECTOR.....D. DUBOIS
LICENSING PROJ MANAGER.....W. LONG
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 FEB. 29 - MARCH 2, 1988 (88-03) ROUTINE, UNANNOUNCED INSPECTION OF SELECTED AREAS OF THE RADIATION PROTECTION PROGRAM. WITHIN THE AREA INSPECTED, ONE DEVIATION WAS IDENTIFIED.

INSPECTION CONDUCTED FEB. 8-12, FEB. 29 - MARCH 4, 1988 (88-04) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S QUALITY ASSURANCE PROGRAM IMPLEMENTATION INCLUDING THE AREAS OF RECORDS MANAGEMENT, DOCUMENT CONTROL, RECEIVING INSPECTION OF MATERIALS AND COMPONENTS; AND IMPLEMENTATION OF 10 CFR PART 21 REQUIREMENTS. WITHIN THE AREAS INSPECTED, TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED MARCH 14 - 18, 1988 (88-05) ROUTINE, UNANNOUNCED INSPECTION OF RECORDS AND REPORTS, ACCESS CONTROL, VEHICLES, PHYSICAL PROTECTION SAFEGUARDS INFORMATION, MANAGEMENT EFFECTIVENESS, PHYSICAL BARRIERS - PROTECTED AREA, PHYSICAL BARRIERS - VITAL AREA, SECURITY SYSTEM POWER SUPPLY, LIGHTING, COMPENSATORY MEASURES, ASSESSMENT AIDS, ACCESS CONTROL - PACKAGES, DETECTION AIDS - PA, DETECTION AIDS - VA, AND TRAINING AND QUALIFICATIONS. WITHIN THE AREAS INSPECTED, THREE VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED MARCH 21-25, 1988 (88-09) ROUTINE, UNANNOUNCED INSPECTION OF SITE TOURS, NONLICENSED STAFF TRAINING, AND LICENSED OPERATOR TRAINING. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED APRIL 4-7, 1988 (88-10) ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED IDENTIFIED INSPECTION FINDINGS, WELDING ACTIVITIES, AND ALLEGATION ASSESSMENT. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRABAND MATERIALS WERE FOUND INSIDE THE PROTECTED AREA IN VIOLATION OF REGULATIONS.
(8703 3)

10 CFR 50.54(C) REQUIRES THAT A LICENSEE SHALL FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE STANDARDS IN 50.47(B) AND THE REQUIREMENTS IN APP.E. SEC. 8.1.1 OF THE EMERGENCY PLAN STATES THAT FORMAL CLASSROOM TRAINING IS PROVIDED TO EACH CNS EMPLOYEE ON AN ANNUAL BASIS. INITIAL TRAINING WILL BE CONDUCTED AND REFRESHER TRAINING WILL BE CONDUCTED ON AN ANNUAL BASIS. CONTRARY TO THE ABOVE, A REVIEW OF RANDOMLY SELECTED EMERGENCY RESPONSE PERSONNEL TRAINING RECORDS INDICATED THAT NINE INDIVIDUALS HAD NOT RECEIVED APPROPRIATE REQUIRED EMERGENCY RESPONSE TRAINING, IN THAT 8 STATION OPERATORS HAD NOT RECEIVED REQUIRED ANNUAL FORMAL CLASSROOM RETRAINING DURING CALENDAR YEAR 1987 AND ONE STATION OPERATOR HAD NOT RECEIVED THE REQUIRED INITIAL TRAINING OR RETRAINING. 10 CFR 50.54(T) REQUIRES THAT PART OF THE REVIEW INVOLVING EVALUATION FOR ADEQUACY OF LICENSEE INTERFACE WITH STATE AND LOCAL GOVERNMENTS SHALL BE AVAILABLE TO THE APPROPRIATE STATE AND LOCAL GOVERNMENTS. SEC.8.3 OF THE PLAN STATES, "AUDITS...INCLUDES QUALITY ASSURANCE AUDITS PER 10 CFR 50.54(T) AND NRC INSPECTION REPORT RESPONSE SUBMITTAL." A QA EVALUATION/AUDIT WAS CONDUCTED DURING MARCH, APRIL, AND MAY 1987. THE EVALUATION AUDIT REPORT TRANSMITTAL MEMO STATED, "AS SPECIFICALLY POINTED OUT IN PREVIOUS EMERGENCY PREPAREDNESS EVALUATION/AUDIT REPORTS, IT IS THE RESPONSIBILITY OF THE EMERGENCY PLANNING COORDINATOR TO ENSURE DISSEMINATION OF THE RESULTS OF THE ATTACHED REPORT REGARDING INTERFACES TO CONTIGUOUS STATE AND LOCAL AUTHORITIES IN COMPLIANCE WITH 10 CFR 50.54(T)." CONTRARY TO THE ABOVE, THE LICENSEE COULD NOT PRODUCE RECORDS INDICATING THAT THE STATE OR LOCAL GOVERNMENT HAD BEEN NOTIFIED OF THE EVALUATION/AUDIT REPORT.
(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

CYCLE 12 REFUELING OUTAGE

LAST IE SITE INSPECTION DATE:

INSPECTION REPORT NO: 50-298/88-06

Report Period: APR 1988

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

* COOPER STATION *

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=====
NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
88-004    03/05/88    04/04/88    INADVERTENT ISOLATION OF THE REACTOR WATER CLEANUP SYSTEM AT REDUCED PRESSURE DURING A PLANT
          COOLDOWN DUE TO LOW PUMP NET POSITIVE SUCTION HEAD
88-005    03/05/88    04/04/88    ACTUATION OF ESF GROUP ISOLATIONS SUBSEQUENT TO A PLANNED MANUAL SCRAM DUE TO MOMENTARY LOW
          REACTOR VESSEL WATER LEVEL
88-006    03/16/88    04/12/88    UNPLANNED AUTOMATIC ACTUATION OF DIESEL GENERATOR NO. 1 STARTING LOGIC DUE TO 4160V AC BREAKER
          DURING RELAY COVER REPLACEMENT
=====
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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: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u>	<u>2,903.0</u>	<u>97,607.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,632.0</u>	<u>61,958.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,275.5</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,566.6</u>	<u>60,582.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,823,486</u>	<u>6,182,835</u>	<u>135,930,023</u>
18. Gross Elec Ener (MWH)	<u>629,176</u>	<u>2,130,936</u>	<u>46,505,051</u>
19. Net Elec Ener (MWH)	<u>600,410</u>	<u>2,028,030</u>	<u>44,161,612</u>
20. Unit Service Factor	<u>100.0</u>	<u>88.4</u>	<u>62.1</u>
21. Unit Avail Factor	<u>100.0</u>	<u>88.4</u>	<u>62.1</u>
22. Unit Cap Factor (MDC Net)	<u>101.7</u>	<u>85.1</u>	<u>55.1</u>
23. Unit Cap Factor (DER Net)	<u>101.2</u>	<u>84.7</u>	<u>54.8</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.5</u>	<u>22.6</u>
25. Forced Outage Hours	<u>.0</u>	<u>93.9</u>	<u>17,728.9</u>

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

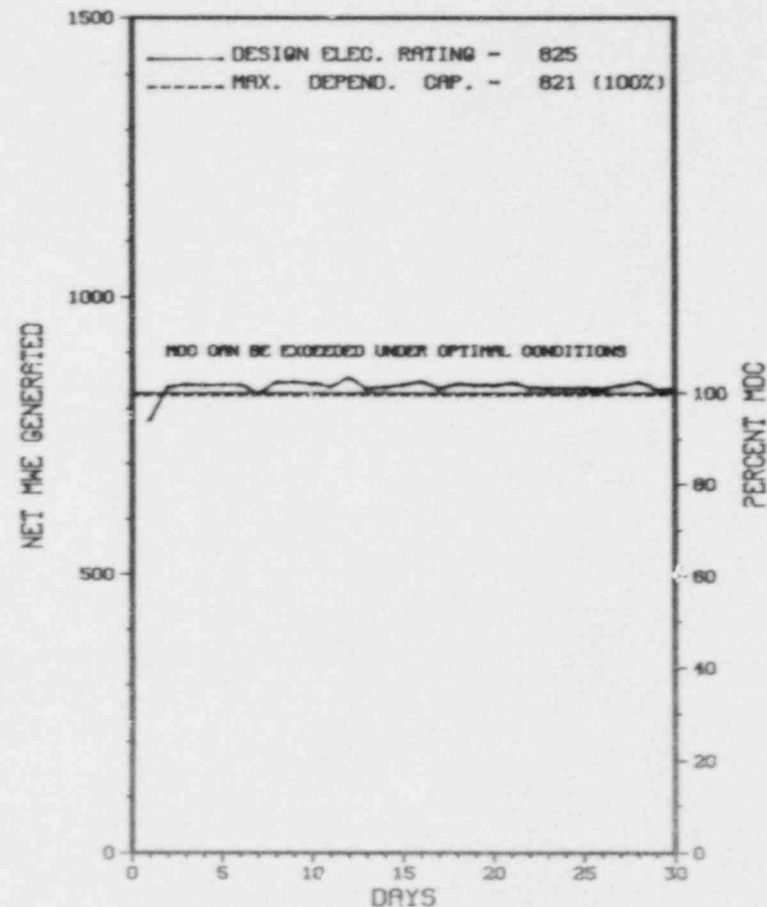
NONE

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

* CRYSTAL RIVER 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CRYSTAL RIVER 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * CRYSTAL RIVER 3 *

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

 * SUMMARY *

 CRYSTAL RIVER 3 OPERATED ROUTINELY IN APRIL
 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)

* CRYSTAL RIVER 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....FLORIDA

COUNTY.....CITRUS

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...7 MI NW OF
CRYSTAL RIVER, FLA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...JANUARY 14, 1977

DATE ELEC ENER 1ST GENER...JANUARY 30, 1977

DATE COMMERCIAL OPERATE...MARCH 13, 1977

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...GULF OF MEXICO

ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....FLORIDA POWER CORPORATION

CORPORATE ADDRESS.....3201 34TH STREET, SOUTH
ST PETERSBURG, FLORIDA 33733

CONTRACTOR
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES

NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX

CONSTRUCTOR.....J. A. JONES CONSTRUCTION

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....T. STETKA

LICENSING PROJ MANAGER.....H. SILVER
DOCKET NUMBER.....50-302

LICENSE & DATE ISSUANCE...DPR-72, JANUARY 28, 1977

PUBLIC DOCUMENT ROOM.....CRYSTAL RIVER PUBLIC LIBRARY
668 N.W. FIRST
CRYSTAL RIVER, FLORIDA 32629

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 12 - MARCH 11 (88-06): THIS ROUTINE INSPECTION WAS CONDUCTED BY THREE RESIDENT INSPECTORS IN THE AREAS OF PLANT OPERATIONS, SECURITY, RADIOLOGICAL CONTROLS, LICENSEE EVENT REPORTS AND NONCONFORMING OPERATIONS REPORTS, FACILITY MODIFICATIONS, AND LICENSEE ACTION ON PREVIOUS INSPECTION ITEMS. NUMEROUS FACILITY TOURS WERE CONDUCTED AND FACILITY OPERATIONS OBSERVED. SOME OF THESE TOURS AND OBSERVATIONS WERE CONDUCTED ON BACKSHIFTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 7-11 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LIQUID AND GASEOUS RADWASTE SYSTEMS, EFFLUENT MONITORING SYSTEMS, AND ENVIRONMENTAL MONITORING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 8-11 (88-08): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF LICENSE ACTIONS ASSOCIATED WITH LER 88-006 (REACTOR TRIP DUE TO FAILURE OF FEEDWATER BLOCK VALVE FWV-29). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 21-25 (88-10): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF REVIEW OF POST-REFUELING STARTUP TESTING, REACTOR COOLANT SYSTEM LEAKAGE DETERMINATION, REVIEW OF LOCAL LEAK RATE TESTING, AND VERIFICATION OF CONTAINMENT INTEGRITY. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

ENFORCEMENT SUMMARY

CONTRARY TO TS 6.8.1.A, PROCEDURES CP-115 AND OP-703 WERE NOT ADHERED TO IN THAT REQUIRED CLEARANCE CERTIFICATIONS AND PROPER PROCEDURE STEPS TO DEENERGIZE A 4160V ES BUS WERE NOT FOLLOWED.
(8704 4)

CONTRARY TO TS 6.8.1, PLANT PROCEDURES OP-703, PT-110, AND AI 2205 WERE NOT PROPERLY IMPLEMENTED. CONTRARY TO TS 3.3.3.3, TABLE 3.7-7, THE TRIAXIAL PEAK ACCELOGRAPHS DID NOT HAVE THE REQUIRED PLUS OR MINUS 2.06 MEASUREMENT RANGE.
(8800 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: DECEMBER 16 - FEBRUARY 11, 1988 +

INSPECTION REPORT NO: 50-302/88-01 +

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

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-007	01/27/88	04/06/88	UNKNOWN CAUSE RESULTS IN REACTOR BUILDING SPRAY PUMP OPERATING BELOW ITS DESIGN FLOW
88-008	01/04/88	04/14/88	UNKNOWN CAUSE OF INSTRUMENT DRIFT LEADS TO LOSS OF REQUIRED SAFETY FUNCTION
88-009	03/03/88	04/14/88	VIOLATION OF APP. RIII.0 DUE TO INSUFFICIENT RESERVE VOL IN RC PUMP LUBE OIL COLL. SYSTEM CAUSED BY LACK OF AWARENESS
88-010	03/25/88	04/25/88	RELEASE MONITOR TRIP SETPOINT ABOVE T.S. LIMIT DUE TO INADEQUATE PROCEDURE

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 2772

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

6. Design Electrical Rating (Net MWe): 906

7. Maximum Dependable Capacity (Gross MWe): 904

8. Maximum Dependable Capacity (Net MWe): 860

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

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

11. Reasons for Restrictions, If Any:
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>85,488.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>1,661.3</u>	<u>45,143.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>5,050.1</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>1,580.0</u>	<u>43,380.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>1,732.7</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>3,306,442</u>	<u>101,268,640</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>1,072,485</u>	<u>33,448,288</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>998,787</u>	<u>31,299,434</u>
20. Unit Service Factor	<u>.0</u>	<u>54.4</u>	<u>50.7</u>
21. Unit Avail Factor	<u>.0</u>	<u>54.4</u>	<u>52.7</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>40.0</u>	<u>42.5</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>38.0</u>	<u>40.4</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>32.5</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>21,470.0</u>

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

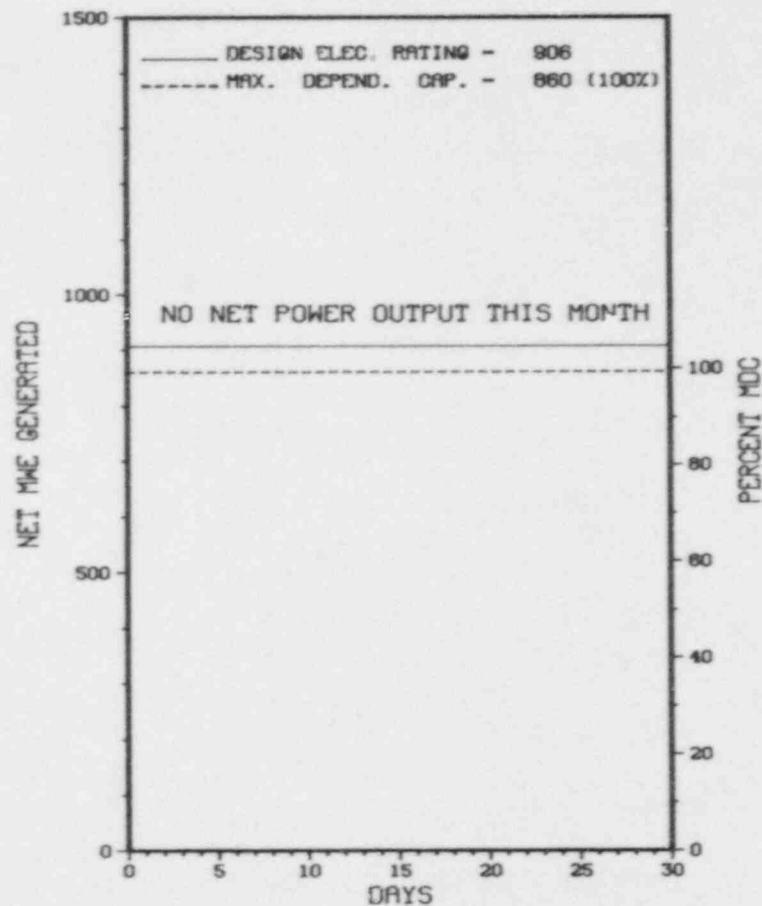
NONE

27. If Currently Shutdown Estimated Startup Date: 09/12/88

* DAVIS-BESSE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DAVIS-BESSE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * DAVIS-BESSE 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	03/10/88	S	719.0	C	4				THE UNIT OUTAGE WHICH BEGAN ON MARCH 10, 1988 WAS STILL IN PROGRESS THROUGH THE END OF APRIL, 1988.

 * SUMMARY *

 DAVIS-BESSE 1 REMAINED SHUTDOWN IN APRIL FOR SCHEDULED REFUELING AND 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)

* DAVIS-BESSE 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....OHIO

COUNTY.....OTTAWA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...21 MI E OF
TOLEDO, OH

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...AUGUST 12, 1977

DATE ELEC ENER 1ST GENER...AUGUST 28, 1977

DATE COMMERCIAL OPERATE....JULY 31, 1978

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER...LAKE ERIE

ELECTRIC RELIABILITY
COUNCIL.....EAST CENTRAL AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....TOLEDO EDISON

CORPORATE ADDRESS.....300 MADISON AVENUE
TOLEDO, OHIO 43652

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....P. BYRON

LICENSING PROJ MANAGER.....A. DEGAZIO
DOCKET NUMBER.....50-346

LICENSE & DATE ISSUANCE....NPF-3, APRIL 22, 1977

PUBLIC DOCUMENT ROOM.....UNIVERSITY OF TOLEDO LIBRARY
GOVERNMENT DOCUMENTS COLLECTION
2801 WEST BANCROFT AVENUE
TOLEDO, OHIO 43606

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 23-26 AND MARCH 7-11, 1988 (88008): SPECIAL, ANNOUNCED team inspection of the operational radiation protection, solid radwaste management, and nonradiological chemistry programs including: radiological control organization, management controls, and qualifications (IP 83522); chemistry organization, management controls, and training (IP 83522, 83523); general orientation training (IP 83523); internal exposure controls (IP 83525); external exposure controls (IP 83524); control of radioactive materials and contamination (IP 83526); ALARA (IP 83728); solid radwaste (IP 84522); water quality (IP 79701); implementation of the chemistry program (IP 79701); chemistry QA/QC program (IP 79701); and nonradiological chemistry confirmatory measurements. Also reviewed were past open items, audits, and allegation, and planning and preparation for the extended scheduled outage. Extensive organizational and procedural changes resulting in increased program formality to accommodate significant staff increases are in various stages of completion. The changes have the potential to improve long-term licensee performance in the radiological controls area. Station internal and external doses and radwaste volumes remain very low. No violations or deviations were identified. One unresolved item was identified pertaining to the absorber thickness used in personal dosimetry devices.

INSPECTION ON JANUARY 1 THROUGH FEBRUARY 15, 1988 (88002): ROUTINE, unannounced inspection by resident inspectors of licensee action on previous inspection findings; operational safety; maintenance; surveillance; performance enhancement program; licensee event reports followup; security; onsite followup of events; fuel receipt; management meetings; and independent safety engineering. Of the 11 areas inspected, no violations or deviations were identified in 10 areas; two violations were identified in the followup of licensee event reports (failure to submit a Special Report in a timely manner and failure to comply with

INSPECTION SUMMARY

Technical specification 3.8.2.3., Paragraph 7.b); however, in accordance with 10 CFR 2, Appendix C, Section V.A., a Notice of Violation was not issued for the failure to comply with Technical Specification 3.8.2.3.

INSPECTION ON FEBRUARY 22-26 AND 7-11, 1988 (88006): SPECIAL SAFETY inspection of activities with regard to review of allegations and resultant review of QA implementing procedures (51061B) and quality records (51065B); design changes and modifications (37700, 37701, 37702); Licensee action on previously identified items (92701); and training (41400). Of the four areas inspected, no violations or deviations were identified in two areas; two violations were identified in the remaining areas (failure to install oil sightglass in accordance with approved procedures and failure to apply design control measures to a specification change).

ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATION 3.7.9.3.A REQUIRES THAT WITH ONE OR MORE FIRE HOSE STATIONS IN TABLE 3.7-4 INOPERABLE, AN ADDITIONAL EQUIVALENT FIRE HOSE SHALL BE ROUTED TO THE UNPROTECTED AREA FROM AN OPERABLE HOSE STATION WITHIN ONE HOUR. FIRE HOSE STATION HCS-30 IS LISTED IN TABLE 3.7-4. CONTRARY TO THE ABOVE, ON OCTOBER 26, 1987, THE LICENSEE REPLACED A 75 FOOT HOSE SECTION WITH A 50 FT. HOSE SECTION ON FIRE HOSE STATION HCS-30. THE SHORTER HOSE RENDERED FIRE HOSE STATION HCS-30 INOPERABLE BECAUSE IT WAS UNABLE TO REACH ALL OF THE EQUIPMENT IMPORTANT TO SAFETY IN ROOM 515. THE SHIFT SUPERVISOR WAS NOTIFIED OF THIS CONDITION AT 9:57 A.M. ON OCTOBER 26, 1987. THE SHIFT SUPERVISOR DIRECTED THAT AN ADDITIONAL LENGTH OF HOSE BE ADDED TO FIRE HOSE STATION HCS-30, WHICH MADE IT OPERABLE. FIRE HOSE STATION HCS-30 WAS INOPERABLE FOR APPROXIMATELY FOUR DAYS.
(8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

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

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

SALP MEETING WITH THE LICENSEE A / THE SITE ON MARCH 30, 1988

PLANT STATUS:

SHUT DOWN FOR A 6 MONTH MAINTENANCE/MODIFICATION/REFUELING OUTAGE. RESTART ABOUT MID- SEPTEMBER, 1988.

LAST IE SITE INSPECTION DATE: 04/14/88

INSPECTION REPORT NO: 88013

Report Period APR 1988

REPORTS FROM LICENSEE

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X DAVIS-BESSE 1 X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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=====
NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
88-08     031288     040888     NUCLEAR SAFETY RELATED EQUIPMENT POTENTIALLY IMPACTED BY NON -SEISMIC EQUIPMENT
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1. Docket: 50-275 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

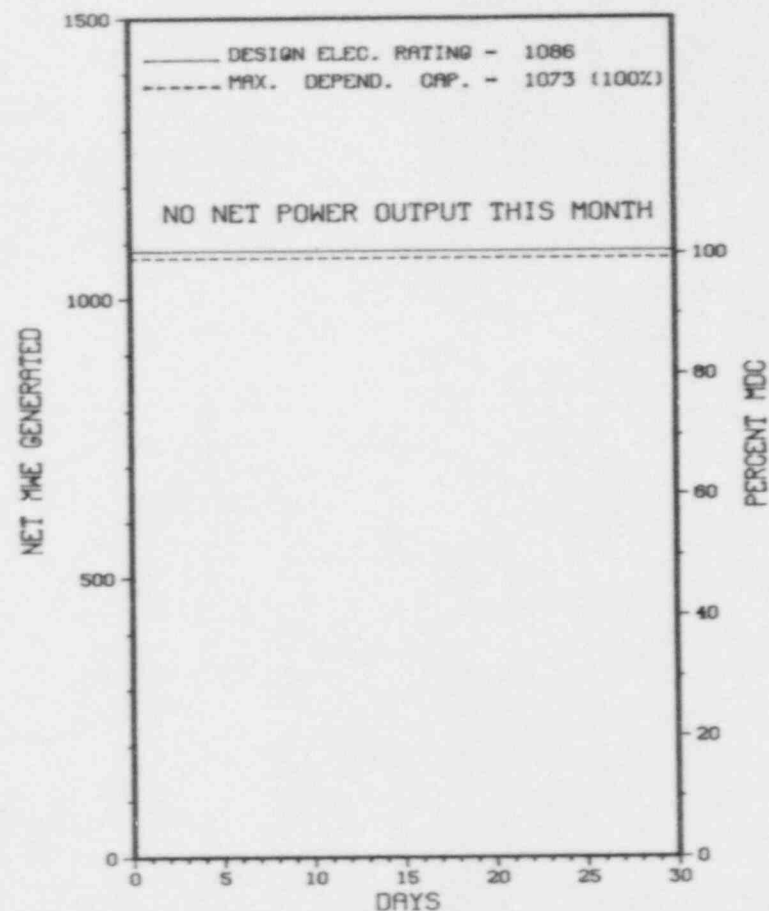
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>26,157.3</u>
13. Hours Reactor Critical	<u>.0</u>	<u>1,531.6</u>	<u>21,270.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>1,523.3</u>	<u>20,831.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>4,020,604</u>	<u>62,985,067</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>1,355,000</u>	<u>21,205,832</u>
19. Net Elec Ener (MWH)	<u>-2,730</u>	<u>1,270,956</u>	<u>20,082,658</u>
20. Unit Service Factor	<u>.0</u>	<u>52.5</u>	<u>79.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>52.5</u>	<u>79.6</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>40.8</u>	<u>71.6</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>40.3</u>	<u>70.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>3.8</u>	<u>3.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>59.9</u>	<u>840.6</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

27. If Currently Shutdown Estimated Startup Date: 06/04/88

 * DIABLO CANYON 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * DIABLO CANYON 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	03/06/88	S	719.0	C	4			SCHEDULED REFUELING OUTAGE.

 * SUMMARY *

 DIABLO CANYON 1 REMAINED SHUTDOWN IN APRIL
 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)

* DIABLO CANYON 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA

COUNTY.....SAN LUIS OBISPO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...12 MI WSW OF
SAN LUIS OBISPO

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...APRIL 29, 1984

DATE ELEC ENER 1ST GENER...NOVEMBER 11, 1984

DATE COMMERCIAL OPERATE...MAY 7, 1985

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...PACIFIC OCEAN

ELECTRIC RELIABILITY
COUNCIL.....WESTERN SYSTEMS
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PACIFIC GAS & ELECTRIC

CORPORATE ADDRESS.....77 BEALE STREET
SAN FRANCISCO, CALIFORNIA 94106

CONTRACTOR
ARCHITECT/ENGINEER.....PACIFIC GAS & ELECTRIC

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....PACIFIC GAS & ELECTRIC

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....J. BURDOIN

LICENSING PROJ MANAGER.....H. ROOD
DOCKET NUMBER.....50-275

LICENSE & DATE ISSUANCE...DPR-80, NOVEMBER 2, 1984

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CALIFORNIA POLYTECHNIC STATE UNIVERSITY
SAN LUIS OBISPO, CA. 93407

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-275/88-02) AREAS INSPECTED: A SPECIAL ANNOUNCED INSPECTION OF REPRESENTATIVE SUBSYSTEMS OF THE POST-ACCIDENT MONITORING SYSTEM AT THE DIABLO CANYON POWER PLANT UNIT 1.

RESULTS: OF THE AREAS INSPECTED, ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED.

+ INSPECTION ON MARCH 14-30, 1988 (REPORT NO. 50-275/88-05) AREAS INSPECTED: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION, RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS AND COMBINATIONS; PHYSICAL BARRIERS-PROTECTED AREA; PHYSICAL BARRIERS-VITAL AREAS; SECURITY SYSTEM POWER SUPPLY; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL-PERSONNEL; ACCESS CONTROL-PACKAGES; ACCESS CONTROL-VEHICLES; DETECTION AIDS-PROTECTED AREA; DETECTION AIDS-VITAL AREAS; ALARM STATIONS; COMMUNICATIONS; PERSONNEL TRAINING AND QUALIFICATION PLAN; CONTINGENCY PLAN IMPLEMENTING PROCEDURES; PHYSICAL PROTECTION SAFEGUARDS INFORMATION; SECURITY EVENT FOLLOWUP; FOLLOWUP ITEMS FROM PREVIOUS SECURITY INSPECTIONS; FOLLOWUP ON INFORMATION NOTICE 87-64; AND INDEPENDENT INSPECTION EFFORT. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED DURING THIS INSPECTION EXCEPT FOR THE FOLLOWING ITEMS: PHYSICAL BARRIERS-PROTECTED AREA AND FAILURE TO PROVIDE A CLEAR ZONE FOR SURVEILLANCE AT THE PROTECTED AREA PERIMETER.

+ INSPECTION ON MARCH 21 - APRIL 1, 1988 (REPORT NO. 50-275/88-06) AREAS INSPECTED: AN ANNOUNCED INSPECTION BY TWO REGIONALLY

Report Period APR 1988

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

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* DIABLO CANYON 1 *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

INSPECTION SUMMARY

BASED INSPECTORS 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 MARCH 6 - APRIL 9, 1988 (REPORT NO. 50-275/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 4 - 8, 1988 (REPORT NO. 50-275/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 3 - 8, 1988 (REPORT NO. 50-275/88-09) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON MARCH 5 - APRIL 1, 1988 (REPORT NO. 50-275/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 10 - MAY 14, 1988 (REPORT NO. 50-275/88-11) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 18 - 22, 1988 (REPORT NO. 50-275/88-12) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE PLANT IS IN A REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: 04/10 - 05/14/88+

INSPECTION REPORT NO: 50-275/88-11+

Report Period APR 1988

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
88-02-L0	01-08-88	02-08-88	MODE 1 100% REACTOR TRIP/TURB TRIP LOW RX COOLANT SYSTEM FLOW SIGNAL INADEQUATE PROCEDURAL GUIDANCE
88-02-S0	03-18-88	04-88-88	10 CFR 73.71 (C) RPT. RE: UNLOCKED HATCH COVER PROVIDING UNDETECTED PA ACCESS (SAFEGUARDS EVENT)
88-03-L0	01-09-88	02-08-88	SPUR ACTUATION CONTAINMENT VENT - NOISE ON POWER BUS TO RAD MONITORS
88-06-L0	02-09-88	03-08-88	MODE 1 FHBVS AND C RM VENT SYSTEMS MODE CHANGE INITIATED DUE TO REDUCED OUTPUT VOLT - INVERTER IY13
88-07-L0	02-17-88	03-17-88	MODE 1 75% POWER ESF ACTUATION VENT SYSTEMS MODE CHANGE

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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: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1164

6. Design Electrical Rating (Net MWe): 1119

7. Maximum Dependable Capacity (Gross MWe): 1137

8. Maximum Dependable Capacity (Net MWe): 1087

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

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

11. Reasons for Restrictions, If Any: _____
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>18,716.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,836.2</u>	<u>15,752.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,835.6</u>	<u>15,320.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>2,401,972</u>	<u>9,472,541</u>	<u>48,734,528</u>
18. Gross Elec Ener (MWH)	<u>797,900</u>	<u>3,159,200</u>	<u>16,146,899</u>
19. Net Elec Ener (MWH)	<u>759,409</u>	<u>3,005,037</u>	<u>15,268,429</u>
20. Unit Service Factor	<u>100.0</u>	<u>97.7</u>	<u>81.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>97.7</u>	<u>81.9</u>
22. Unit Cap Factor (MDC Net)	<u>97.2</u>	<u>95.2</u>	<u>75.1</u>
23. Unit Cap Factor (DER Net)	<u>94.4</u>	<u>92.5</u>	<u>72.9</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>2.3</u>	<u>9.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>67.4</u>	<u>1,572.8</u>

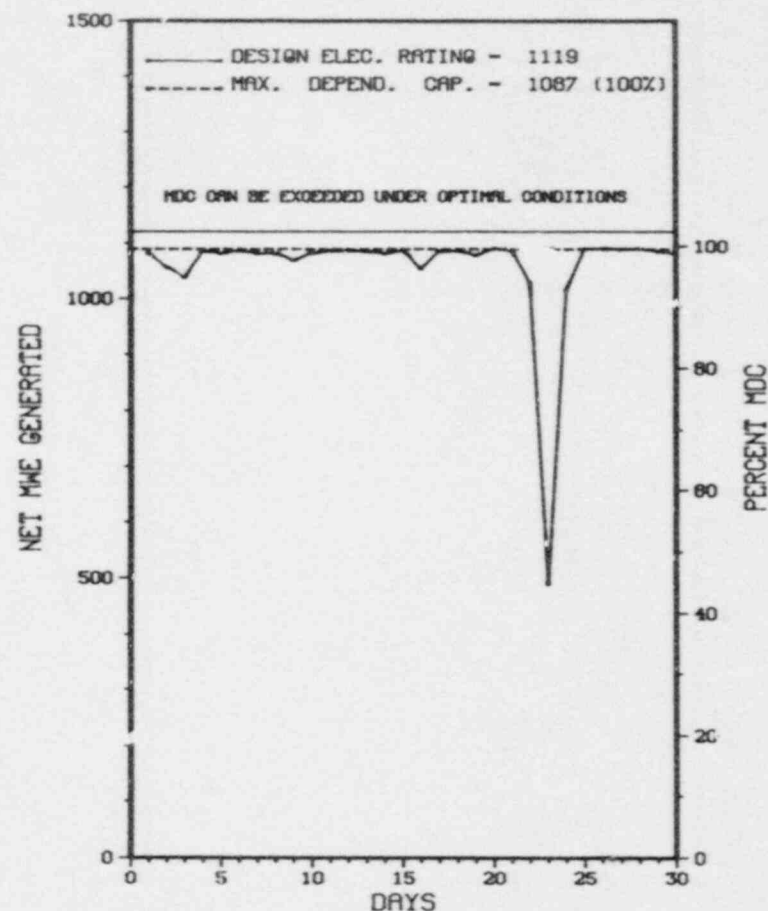
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - SEPT. 15 - 70 DAY DURATION.

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

* DIABLO CANYON 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * DIABLO CANYON 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
02	04/22/88	F	0.0	B	5				POWER REDUCED TO 50% TO BACKFLUSH CONDENSER WATERBOXES AND PERFORM DEMUSSELING OPERATIONS.

 * SUMMARY *

 DIABLO CANYON 2 INCURRED 1 POWER REDUCTION IN APRIL AS DISCUSSED 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)

* DIABLO CANYON 2 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA

COUNTY.....SAN LUIS OBISPO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...12 MI WSW OF
 SAN LUIS OBISPO

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...AUGUST 19, 1985

DATE ELEC ENER 1ST GENER...OCTOBER 20, 1985

DATE COMMERCIAL OPERATE...MARCH 13, 1986

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...PACIFIC OCEAN

ELECTRIC RELIABILITY
COUNCIL.....WESTERN SYSTEMS
 COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PACIFIC GAS & ELECTRIC

CORPORATE ADDRESS.....77 BEALE STREET
 SAN FRANCISCO, CALIFORNIA 94106

CONTRACTOR
ARCHITECT/ENGINEER.....PACIFIC GAS & ELECTRIC

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....PACIFIC GAS & ELECTRIC

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....J. BURDOIN

LICENSING PROJ MANAGER....H. ROOD
DOCKET NUMBER.....50-323

LICENSE & DATE ISSUANCE...DPR-82, AUGUST 26, 1985

PUBLIC DOCUMENT ROOM.....ROBERT F. KENNEDY LIBRARY
 CALIFORNIA POLYTECHNIC STATE UNIVERSITY
 SAN LUIS OBISPO, CA. 93407

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

INSPECTION SUMMARY

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-323/88-02) AREAS INSPECTED: A SPECIAL ANNOUNCED INSPECTION OF REPRESENTATIVE SUBSYSTEMS OF THE POST-ACCIDENT MONITORING SYSTEM AT THE DIABLO CANYON POWER PLANT UNIT 2.

RESULTS: OF THE AREAS INSPECTED, ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED.

✓ INSPECTION ON MARCH 14 - 30, 1988 (REPORT NO. 50-323/88-05) AREAS INSPECTED: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS; KEYS AND COMBINATIONS; PHYSICAL BARRIERS-PROTECTED AREA; PHYSICAL BARRIERS-VITAL AREAS; SECURITY SYSTEM SUPPLY; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL-PERSONNEL; ACCESS CONTROL PACKAGES; ACCESS CONTROL-VEHICLES; DETECTION AIDS-PROTECTED AREA; DETECTION AIDS-VITAL AREAS; ALARM STATIONS; COMMUNICATIONS; PERSONNEL TRAINING AND QUALIFICATION PLAN; CONTINGENCY PLAN IMPLEMENTING PROCEDURES; PHYSICAL PROTECTION SAFEGUARDS INFORMATION; SECURITY EVENT FOLLOWUP; FOLLOWUP ITEMS FROM PREVIOUS SECURITY INSPECTIONS; FOLLOWUP ON INFORMATION NOTICE 87-64; AND INDEPENDENT INSPECTION EFFORT. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 28 - APRIL 1, 1988 (REPORT NO. 50-323/88-06) AREAS INSPECTED: AN ANNOUNCED INSPECTION BY TWO REGIONALLY BASED INSPECTORS OF VARIOUS VITAL AREAS AND EQUIPMENT IN THE PLANT, AND FOLLOWUP OF ENFORCEMENT AND OPEN ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

INSPECTION STATUS - (CONTINUED)

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*****
*          DIABLO CANYON 2          *
*****
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RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

- + INSPECTION ON MARCH 6 - APRIL 9, 1988 (REPORT NO. 50-323/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
+ INSPECTION ON APRIL 3 - 8, 1988 (REPORT NO. 50-323/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
+ INSPECTION ON MARCH 28 - APRIL 1, 1988 (REPORT NO. 50-323/88-09) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
+ INSPECTION ON APRIL 10 - MAY 14, 1988 (REPORT NO. 50-323/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
+ INSPECTION ON APRIL 18 -22, 1988 (REPORT NO. 50-323/88-11) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

NONE

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 04/10 - 05/14/88+

INSPECTION REPORT NO: 50-323/88-10+

Report Period APR 1988

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

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* DIABLO CANYON 2 *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01-L0	02-25-88	03-24-88	SPURIOUS ACTUATION FUEL HANDLING BLDG VENT SYSTEMS IODINE REMOVAL MODE DUE TO ELETRONIC NOISE =====

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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: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (Mwt): 2527

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

6. Design Electrical Rating (Net MWe): 794

7. Maximum Dependable Capacity (Gross MWe): 812

8. Maximum Dependable Capacity (Net MWe): 772

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

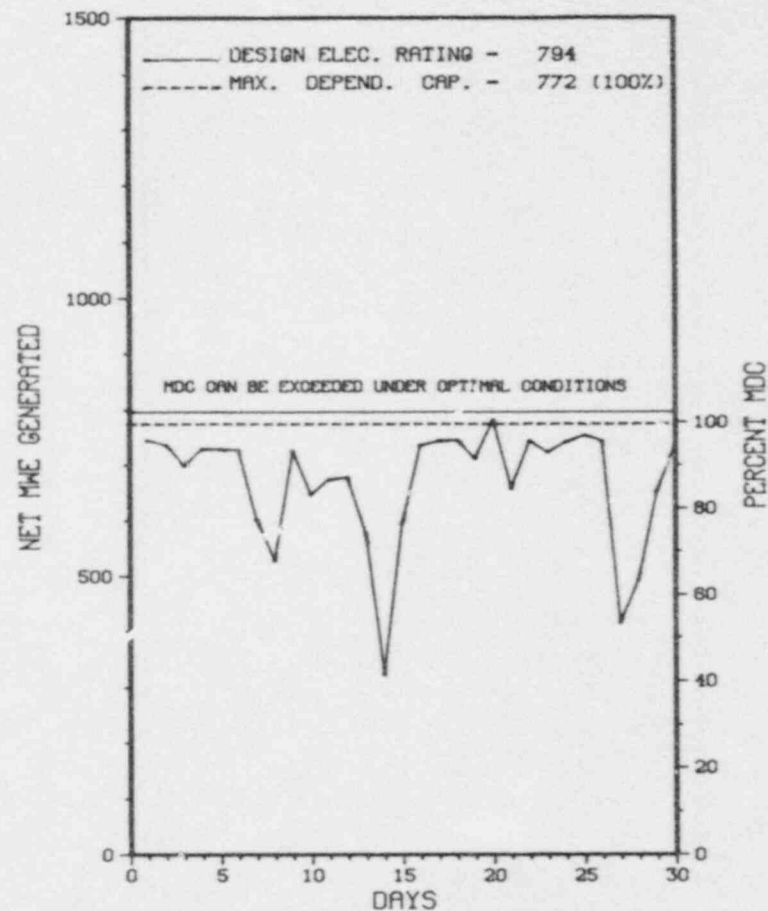
10. Power Level To Which Restricted, If Any (Net MWe): _____

11. Reasons for Restrictions, If Any: NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>157,487.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,903.0</u>	<u>119,475.3</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,903.0</u>	<u>113,996.8</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,582,076</u>	<u>6,561,536</u>	<u>234,580,359</u>
18. Gross Elec Ener (MWH)	<u>502,653</u>	<u>2,097,836</u>	<u>75,037,806</u>
19. Net Elec Ener (MWH)	<u>479,709</u>	<u>2,002,750</u>	<u>70,938,928</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>72.4</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>72.4</u>
22. Unit Cap Factor (MDC Net)	<u>86.4</u>	<u>89.4</u>	<u>58.3</u>
23. Unit Cap Factor (DER Net)	<u>84.0</u>	<u>86.9</u>	<u>56.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>.1.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>1,157.0</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>BATTERY DISCH. TEST 5/88, DURA. 1 WK. REFUEL 9/88</u>			
27. If Currently Shutdown Estimated Startup Date: <u>N/A</u>			

* D R E S D E N 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
DRESDEN 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * DRESDEN 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	04/07/88	S	0.0	A	5			THE 2A RECIRC M.G. TRIPPED AND LOAD WAS REDUCED TO INVESTIGATE PROBLEM.
2	04/13/88	S	0.0	H	3			LOAD WAS REDUCED TO FACILITATE A DRYWELL ENTRY.
3	04/27/88	S	0.0	H	5			LOAD WAS REDUCED TO ENTER DRYWELL AND REPAIR AIR LINE ON 1B MSIV.

 * SUMMARY *

DRESDEN 2 OPERATED DURING APRIL AT 763 MWE IN ECONOMIC GENERATION CONTROL AS DIRECTED BY THE LOAD DISPATCHER. THE UNIT INCURRED 3 LOAD REDUCTIONS DURING APRIL AS DISCUSSED 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)

 * DRESDEN 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
 IE RESIDENT INSPECTOR.....S. DUPONT
 LICENSING PROJ MANAGER.....M. 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

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

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 29 THROUGH MARCH 2, 1988 (88004; 88004): ROUTINE, ANNOUNCED INSPECTION OF THE DRESDEN STATION'S ANNUAL EMERGENCY PREPAREDNESS EXERCISE, INVOLVING OBSERVATIONS BY FOUR NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. NO VIOLATIONS OF NRC REQUIREMENTS WERE IDENTIFIED.

INSPECTION DURING THE PERIOD OF JANUARY 30 THROUGH MARCH 17, 1988 (88005; 88005): ROUTINE UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTOR SON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY VERIFICATION; FOLLOWUP OF EVENTS; LICENSEE EVENT REPORTS FOLLOWUP; NRC INFORMATION NOTICE FOLLOWUP; IT-2515/90; MANAGEMENT MEETINGS; CHAIRMAN ZECH VISIT; AND REPORT REVIEW. OF THE 9 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN 7 AREAS; ON VIOLATION WAS IDENTIFIED IN THE AREA OF THE OPERATIONAL SAFETY VERIFICATION (FAILURE TO ENSURE COMPLIANCE WITH A TECHNICAL SPECIFICATION). ADDITIONALLY, ONE VIOLATION WAS ALSO IDENTIFIED IN THE AREA OF LICENSEE EVENT REPORTS; HOWEVER IN ACCORDANCE WITH 10 CFR 2, APPENDIX C, SECTION V.A., A NOTICE OF VIOLATION WAS NOT ISSUED (FAILURE TO VERIFY THE APRM INOPERATIVE FUNCTION WHILE IN THE STARTUP MODE).

INSPECTION FROM SEPTEMBER 3, 1987 THROUGH MARCH 16, 1988 (87030; 87029): SPECIAL SAFETY INSPECTION OF PREVIOUSLY IDENTIFIED ITEMS OF NONCOMPLIANCE AND UNRESOLVED ITEMS, AND ONSITE FOLLOWUP OF EVENTS AT OPERATING REACTORS (92701, 92702 AND 93702). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

TECHNICAL SPECIFICATION (TS) 3.7.A.5.A, "LIMITING CONDITION FOR OPERATION (LCO)," REQUIRES THAT THE PRIMARY CONTAINMENT ATMOSPHERE BE REDUCED TO LESS THAN FOUR PERCENT OXYGEN WITH NITROGEN GAS DURING REACTOR POWER OPERATION WITH REACTOR COOLANT PRESSURE ABOVE 90 PSIG, EXCEPT AS SPECIFIED IN TS 3.7.A.5.B. WHICH PROVIDES THAT DEINERTING MAY COMMENCE 24 HOURS PRIOR TO A SHUTDOWN. DRESDEN OPERATING PROCEDURE 1600-9, REVISION 4, "NITROGEN MAKE-UP TO PRIMARY CONTAINMENT," STATES THAT "THE CONTAINMENT ATMOSPHERE SHALL BE REDUCED TO LESS THAN FOUR % OXYGEN WITH NITROGEN GAS . . . AND UP TO 24 HOURS BEFORE TAKING THE REACTOR OUT OF THE RUN MODE." CONTRARY TO THE ABOVE, AT 1220 HOURS ON NOVEMBER 28, 1986, DURING POWER OPERATION AND WITH REACTOR COOLANT PRESSURE ABOVE 90 PSIG, THE LICENSEE COMMENCED DEINERTING PROCEDURES. ALTHOUGH THE OXYGEN CONCENTRATION WAS GREATER THAN FOUR PERCENT, THE REACTOR CONTINUED OPERATING UNTIL IT WAS MANUALLY SCRAMMED AT 1703 HOURS ON 11/29/86 A DEINERTING PERIOD OF 28 HOURS & 43 MINUTES.

(B) TECHNICAL SPEC. LIMITING CONDITION FOR OPERATION 3.7.A.7.A. REQ. THAT DIFFERENTIAL PRESSURE BETWEEN THE DRYWELL & SUPPRESSION CHAMBER BE MAINTAINED AT = TO OR < THAN 1.00 PSID, EXCEPT AS SPECIFIED IN TS 3.7.A.7.A(1), WHICH PROVIDES THAT THE DIFFERENTIAL MAY BE RELAXED 24 HOURS PRIOR TO A REACTOR SHUTDOWN, AND TS 3.7.A.7.A(2) IS NOT APPLICABLE HERE. CONTRARY TO THE ABOVE, AT 1220 HOURS ON NOVEMBER 28, 1986, A TWO INCH EQUALIZING LINE BETWEEN THE DRYWELL AND THE TORUS WAS OPENED, THEREBY REDUCING THE DIFFERENTIAL PRESSURE TO LESS THAN 1.00 PSID. THE REACTOR CONTINUED TO OPERATE IN THIS CONFIGURATION UNTIL 1703 HOURS ON NOVEMBER 29, 1986, A PERIOD OF 28 HOURS AND 43 MINUTES, WHEN THE REACTOR WAS MANUALLY SCRAMMED.

(8700 3)

10 CFR 50, APPENDIX B, CRITERION XVI, AS IMPLEMENTED BY CECO TOPICAL REPORT CE-1-A, "QUALITY ASSURANCE PROGRAM FOR NUCLEAR GENERATING STATIONS", AND CECO CORPORATE QUALITY ASSURANCE MANUAL, NUCLEAR GENERATING STATIONS, "QUALITY REQUIREMENT SECTION 16.0", REQUIRES THAT CORRECTIVE ACTIONS IDENTIFIED FROM NONCONFORMANCES, INCIDENTS AND DEVIATIONS ARE VERIFIED FOR SATISFACTORY COMPLETION TO PRECLUDE REPETITION. CONTRARY TO THE ABOVE, THE CORRECTIVE ACTIONS TAKEN TO RESOLVE AN AUGUST 18, 1987, VIOLATION OF TECHNICAL SPECIFICATION TABLE 3.1.1, WHICH REQUIRES A MINIMUM OF TWO OPERABLE APRM DOWNSCALE/IRM HIGH HIGH OR INOPERABLE TRIP FUNCTIONS PER REACTOR PROTECTION SYSTEM CHANNEL WERE NOT EFFECTIVE IN PREVENTING A SECOND IDENTICAL VIOLATION OF THIS TECHNICAL SPECIFICATION REQUIREMENT WHICH OCCURRED FOUR MONTHS LATER ON DECEMBER 18, 1987.
(8704 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT OPERATING ROUTINELY AT APPROXIMATELY FULL POWER.

LAST IE SITE INSPECTION DATE: 03/14/88

INSPECTION REPORT NO: 88005

Report Period APR 1988

REPORTS FROM LICENSEE

* DRESDEN 2 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
88-01     032988    042588    DIESEL GENERATOR AIR START PIPING OUTSIDE FSAR STRESS ALLOWABLES DUE TO APPARENT ORIGINAL DESIGN
          DEFICIENCY
=====
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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: 04/01/88 Outage + On-line Hrs: 719.0

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): 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

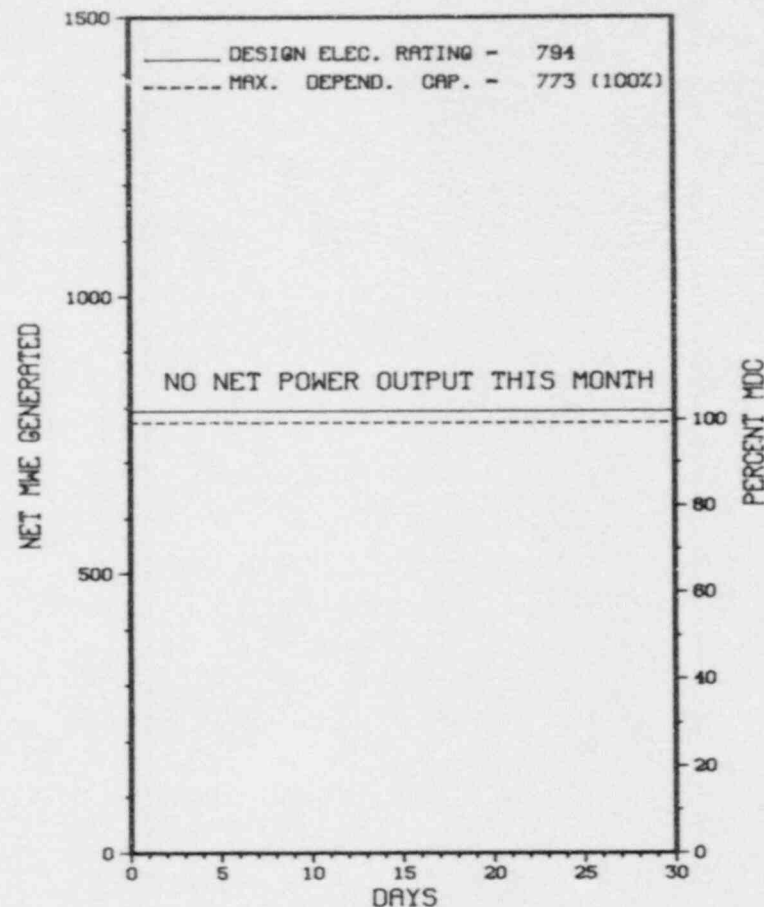
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>147,072.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>2,066.4</u>	<u>105,474.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>2,066.0</u>	<u>100,913.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>4,792,721</u>	<u>206,168,243</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>1,557,623</u>	<u>66,588,865</u>
19. Net Elec Ener (MWH)	<u>-3,779</u>	<u>1,486,943</u>	<u>63,064,763</u>
20. Unit Service Factor	<u>.0</u>	<u>71.2</u>	<u>68.6</u>
21. Unit Avail Factor	<u>.0</u>	<u>71.2</u>	<u>68.6</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>66.3</u>	<u>55.5</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>64.5</u>	<u>54.0</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>12.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>9,463.9</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	<u>NONE</u>		

27. If Currently Shutdown Estimated Startup Date: 06/25/88

 * DRESDEN 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DRESDEN 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * DRESDEN 3 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/27/88	S	719.0	C	4				SCHEDULED REFUELING OUTAGE.

 * SUMMARY *

 DRESDEN III REMAINED SHUTDOWN IN APRIL 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)

 * DRESDEN 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....ILLINOIS
 COUNTY.....GRUNDY
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...9 MI E OF
 MORRIS, ILL
 TYPE OF REACTOR.....BWR
 DATE INITIAL CRITICALITY...JANUARY 31, 1971
 DATE ELEC 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.....S. DUPONT
 LICENSING PROJ MANAGER.....M. GROTHENHUIS
 DOCKET NUMBER.....50-249
 LICENSE & DATE ISSUANCE....DPR-25, MARCH 2, 1971
 PUBLIC DOCUMENT ROOM.....MORRIS PUBLIC LIBRARY
 604 LIBERTY STREET
 MORRIS, ILLINOIS 60450

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 29 THROUGH MARCH 2, 1988 (88004; 88004): ROUTINE, ANNOUNCED INSPECTION OF THE DRESDEN STATION'S ANNUAL EMERGENCY PREPAREDNESS EXERCISE, INVOLVING OBSERVATIONS BY FOUR NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. NO VIOLATIONS OF NRC REQUIREMENTS WERE IDENTIFIED.

INSPECTION DURING THE PERIOD OF JANUARY 30 THROUGH MARCH 17, 1988 (88005; 88005): ROUTINE UNANNOUNCED SAFETY INSPECTION BY THE RESIDENT INSPECTOR SON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY VERIFICATION; FOLLOWUP OF EVENTS; LICENSEE EVENT REPORTS FOLLOWUP; NRC INFORMATION NOTICE FOLLOWUP; IT-2515/90; MANAGEMENT MEETINGS; CHAIRMAN ZECH VISIT; AND REPORT REVIEW. OF THE 9 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN 7 AREAS; ON VIOLATION WAS IDENTIFIED IN THE AREA OF THE OPERATIONAL SAFETY VERIFICATION (FAILURE TO ENSURE COMPLIANCE WITH A TECHNICAL SPECIFICATION). ADDITIONALLY, ONE VIOLATION WAS ALSO IDENTIFIED IN THE AREA OF LICENSEE EVENT REPORTS; HOWEVER IN ACCORDANCE WITH 10 CFR' 2, APPENDIX C, SECTION V.A., A NOTICE OF VIOLATION WAS NOT ISSUED (FAILURE TO VERIFY THE APRM INOPERATIVE FUNCTION WHILE IN THE STARTUP MODE).

INSPECTION FROM SEPTEMBER 3, 1987 THROUGH MARCH 16, 1988 (87030; 87029): SPECIAL SAFETY INSPECTION OF PREVIOUSLY IDENTIFIED ITEMS OF NONCOMPLIANCE AND UNRESOLVED ITEMS, AND ONSITE FOLLOWUP OF EVENTS AT OPERATING REACTORS (92701, 92702 AND 93702). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON FEBRUARY 16-18, 22-26, MARCH 1-4, 10 AND 14-16, 1988 (88006): SPECIAL ANNOUNCED SAFETY INSPECTION OF PREVIOUS INSPECTION FINDINGS FROM THE SAFETY SYSTEM OUTAGE MODIFICATION INSPECTION (SSOMI) REPORTS NO. 50-249/86009 AND NO. 50-249/86012. (92701) TO PREVENT RECURR ENCE OF DEFICIENCIES REVEALED BY THE SSOMI, THE LICENSE MANAGEMENT EFFECTED MAJOR CHANGES IN PROCEDURE DAP

INSPECTION STATUS - (CONTINUED)

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

OTHER ITEMS

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT SHUTDOWN 3/26/88 FOR REFUELING OUTAGE. (EXPECTED TO LAST UNTIL END OF JUNE)

LAST IE SITE INSPECTION DATE: 03/16/88

INSPECTION REPORT NO: 88006

Report Period APR 1988

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

* D R E S D E N 3 *

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NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
88-03     032388      041888     FLUED HEAD ANCHOR SUPPORTS IN EXCESS OF FSAR DESIGN CRITERIA DUE TO DESIGN AND CONSTRUCTION
          DEFICIENCIES
88-04     040488      042888     TYPE B AND C LOCAL LEAK RATE TEST LIMIT EXCEEDED DUE TO LEAKAGE THROUGH PRIMARY CONTAINMENT
          ISOLATION VALVE
88-05     032688      041888     HPCI SYSTEM INTENTIONALLY MADE INOPERABLE TO FACILITATE PRE-PLANNED PREVENTIVE MAINTENANCE
          TESTING
88-06     032988      042688     HPCI AREA TEMPERATURE SWITCHES EXCEEDED TECHNICAL SPECIFICATION LIMIT DUE TO INSTRUMENT SETPOINT
          DRIFT
=====
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1. Docket: 50-331 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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): 565

8. Maximum Dependable Capacity (Net MWe): 565

9. If Changes Occur Above Since Last Report, Give Reasons:
ITEM 6 & 7 WILL VARY TO REFLECT SEASONAL CONDITIONS.

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

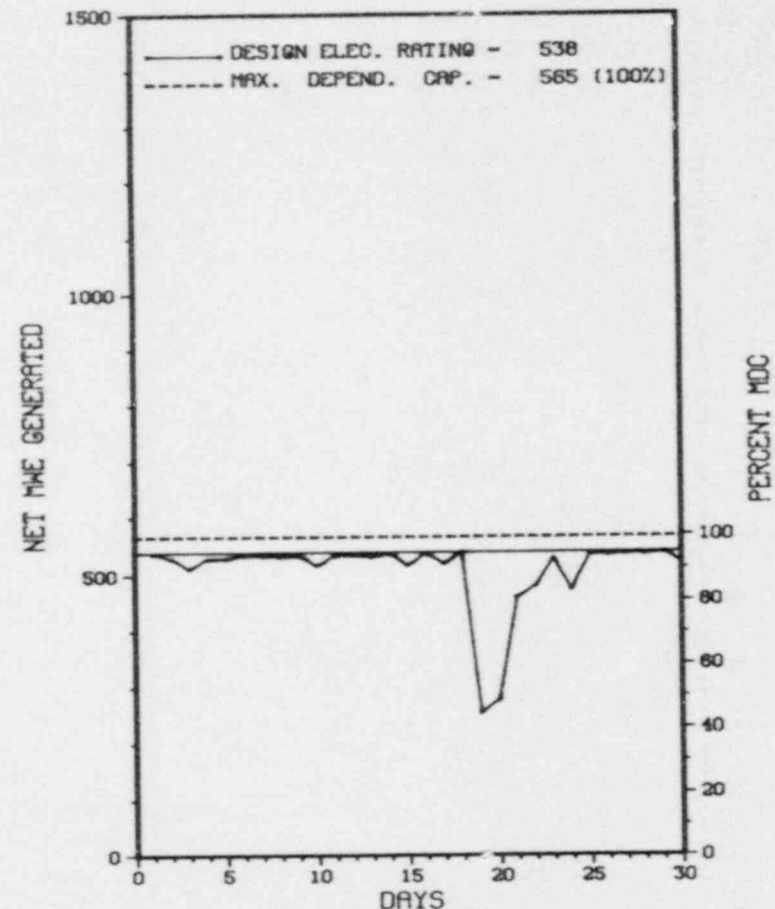
11. Reasons for Restrictions, If Any: _____
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>116,111.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,903.0</u>	<u>83,216.8</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>172.8</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,903.0</u>	<u>81,158.4</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,132,702</u>	<u>4,681,749</u>	<u>104,719,030</u>
18. Gross Elec Ener (MWH)	<u>385,549</u>	<u>1,601,620</u>	<u>35,161,448</u>
19. Net Elec Ener (MWH)	<u>363,664</u>	<u>1,495,896</u>	<u>32,939,224</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>69.9</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>69.9</u>
22. Unit Cap Factor (MDC Net)	<u>89.5</u>	<u>97.7</u>	<u>50.2</u>
23. Unit Cap Factor (DER Net)	<u>94.0</u>	<u>95.8</u>	<u>52.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>14.7</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>13,917.7</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>REFUEL 9/29/88 - 2 MONTH DURATION</u>			

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

 * DUANE ARNOLD *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 DUANE ARNOLD



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * DUANE ARNOLD *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	04/15/88	S	0.0	B	5			POWER REDUCED TO APPROXIMATELY 50% TO REPAIR A FEED PUMP SEAL WATER CONTROL VALVE.
2	04/19/88	S	0.0	B	5			POWER REDUCED TO APPROXIMATELY 50% TO PERFORM MAINTENANCE ON THE 'A' FEEDWATER PUMP BEARING.

 * SUMMARY *

 DUANE ARNOLD INCURRED 2 POWER REDUCTIONS
 IN APRIL 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)

* DUANE ARNOLD *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 29 THROUGH MARCH 4 AND MARCH 22, 1988 (88005): ROUTINE UNANNOUNCED INSPECTION OF : (1) QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSES; (2) VERIFICATION OF TLD COLLOCATION; (3) ACTION ON OPEN ITEMS IDENTIFIED DURING PREVIOUS INSPECTIONS; AND (4) MANAGEMENT CONTROLS AND ORGANIZATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

INSPECTION ON JANUARY 19, 1988 THROUGH FEBRUARY 29, 1988 (88004): ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCE, LICENSEE EVENT REPORTS, IE BULLETINS, INFORMATION NOTICES, ALLEGATIONS, GENERIC LETTERS, AND MANAGEMENT MEETINGS. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN EIGHT AREAS; ONE VIOLATION WAS IDENTIFIED IN THE REMAINING AREA (FAILURE TO PROPERLY WEAR PROTECTIVE CLOTHING AS DIRECTED BY THE RWP AND FAILURE TO PERFORM A WHOLE BODY FRISK UPON EXITING A CONTAMINATED AREA). BOTH EXAMPLES OF THE VIOLATION WERE OF MINOR SAFETY SIGNIFICANCE AND DID NOT AFFECT THE PUBLIC'S HEALTH AND SAFETY.

MEETING ON APRIL 7, 1988 (88008): A SPECIAL MANAGEMENT MEETING WAS CONDUCTED TO DISCUSS THE LICENSEE'S EFFORTS IN RESPONSE TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) CONCERN ABOUT THE ADEQUACY OF OFFSITE PLANNING FOR LINN AND BENTON COUNTY, IOWA AND THE STATE OF IOWA AS IT RELATES TO THE EXPANDED EMERGENCY PLANNING ZONE (EPZ) AROUND THE DUANE ARNOLD ENERGY CENTER. THE INFORMATION PROVIDED BY THE LICENSEE INDICATES THAT THE LICENSEE IS AGGRESSIVELY PURSUING RESOLUTION OF THE FEMA IDENTIFIED INADEQUACIES AND THAT THESE ISSUES WILL BE RESOLVED WITHIN THE TIME LIMITS PREVIOUSLY AGREED UPON BY THE PARTIES INVOLVED.

INSPECTION STATUS - (CONTINUED)

 * DUANE ARNOLD *

NONE

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING ROUTINELY.

LAST IE SITE INSPECTION DATE: 04/07/88

INSPECTION REPORT NO: 88008

REPORTS FROM LICENSEE

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

1. Docket: 50-348 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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): 853

8. Maximum Dependable Capacity (Net MWe): 813

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

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

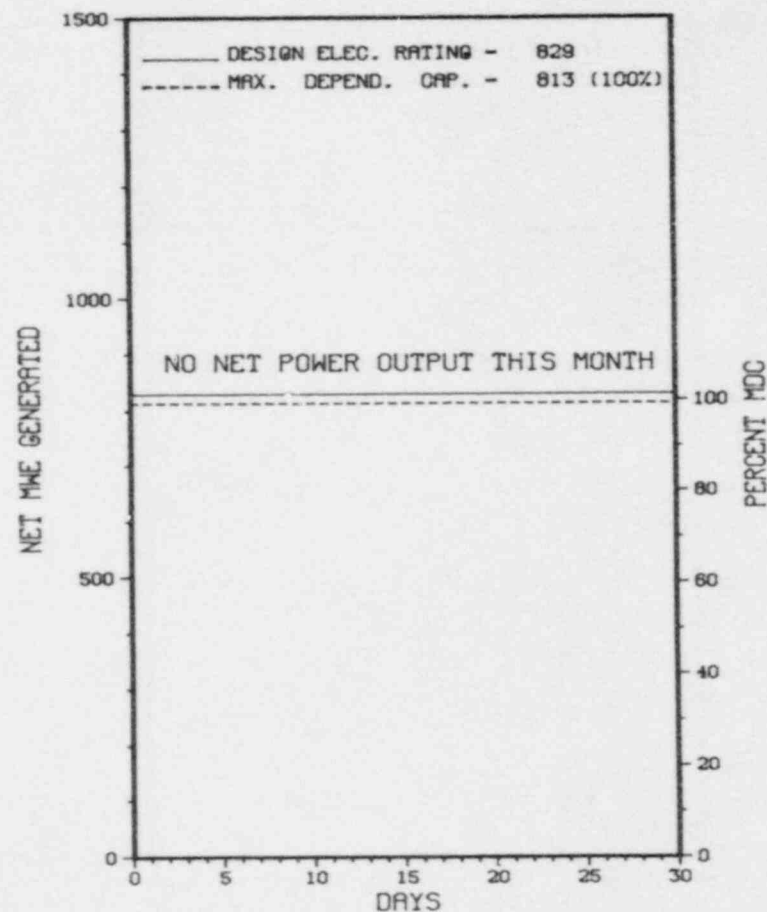
11. Reasons for Restrictions, If Any: _____
NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>91,255.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>2,040.8</u>	<u>67,257.5</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>3,650.7</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>2,040.1</u>	<u>65,865.6</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>5,400,491</u>	<u>167,823,838</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>1,763,232</u>	<u>53,829,568</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>1,673,430</u>	<u>50,842,626</u>
20. Unit Service Factor	<u>.0</u>	<u>70.3</u>	<u>72.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>70.3</u>	<u>72.1</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>70.9</u>	<u>69.1*</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>69.5</u>	<u>67.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>9.4</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>6,823.1</u>
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): <u>NONE</u>			

27. If Currently Shutdown Estimated Startup Date: 05/14/88

* FARLEY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
FARLEY 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * FARLEY 1 *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
001	03/26/88	S	719.0	C	4			THE CYCLE 8-9 REFUELING OUTAGE CONTINUED FROM 3/26/88.

 * SUMMARY *

 FARLEY 1 REMAINED SHUTDOWN IN APRIL 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)

* FARLEY 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 4-7 (88-01): THIS WAS A SPECIAL, ANNOUNCED INSPECTION CONDUCTED TO FOLLOWUP ON ALLEGATIONS RELATIVE TO THE LICENSEE'S FACILITY. TWENTY GENERAL ALLEGATION SUBJECT AREAS WERE IDENTIFIED TO THE LICENSEE. SOME SIXTY SPECIFIC ALLEGATIONS WERE INVESTIGATED AND ARE ADDRESSED IN THIS REPORT. NRC FOLLOWUP OF THESE ALLEGATIONS CONSISTED OF A REVIEW OF PERTINENT RECORDS, LOGS, AND REPORTS PERTAINING TO PLANT CHEMISTRY, RADIOCHEMISTRY, RADIOACTIVITY COUNTING ROOM/OPERATION, EFFLUENT MONITORING AND ENVIRONMENTAL MONITORING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 11 - APRIL 10 (88-08): THIS ROUTINE ONSITE INSPECTION INVOLVED A REVIEW OF MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY SYSTEM INSPECTION, RADIOLOGICAL PROTECTION PROGRAM, PHYSICAL SECURITY PROGRAM AND REVIEW OF EMERGENCY OPERATING PROCEDURES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 21-24 (88-09): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED: SECURITY ORGANIZATION; RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AREA; PHYSICAL BARRIERS - VITAL AREAS; ACCESS CONTROL - PERSONNEL; ACCESS CONTROLS - VEHICLES; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; AND PHYSICAL PROTECTION SAFEGUARDS INFORMATION. IN ADDITION, A REVIEW AND EVALUATION OF PERTINENT SECURITY DOCUMENTATION WAS CONDUCTED IN AN ATTEMPT TO SUBSTANTIATE SEVERAL ALLEGATIONS RELATING TO IMPROPRIETIES IN SECURITY FORCE OPERATIONS. THERE WAS ONE VIOLATION OF REGULATORY REQUIREMENT AND ONE LICENSEE IDENTIFIED VIOLATION NOTED DURING THE INSPECTION. FAILURE TO SECURE SAFEGUARDS INFORMATION WHEN UNATTENDED. FAILURE TO ENSURE AN AUTHORIZED INDIVIDUAL HAD A BADGE BEFORE GRANTING ACCESS TO A PROTECTED AREA. (LICENSEE IDENTIFIED VIOLATION)

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* FARLEY 1 *

INSPECTION SUMMARY

INSPECTION MARCH 28-31 (88-11): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF DOCUMENTATION REVIEW FOR WELDING ACTIVITIES AND NONDESTRUCTIVE EXAMINATIONS (NDE) ASSOCIATED WITH EVENTS RELATED TO UNIT 2, LOOP B, SAFETY INJECTION SYSTEM (SIS), SIX INCH PIPE REPLACEMENT WELDS AS A RESULT OF THE THROUGH WALL CRACK DETECTED IN DECEMBER 1987 AND COMMITMENTS AGREED TO BY THE LICENSEE AT THAT TIME. ALSO, A REVIEW OF EXAMINATION DATA GENERATED DURING THE UNIT 2 INSERVICE INSPECTION (ISI) WAS ACCOMPLISHED. ORDER FOR MODIFICATION OF LICENSE RELATIVE TO PRIMARY COOLANT PRESSURE ISOLATION VALVES (UNIT 1) AND IE BULLETIN 87-02 (FASTENER TESTING) (UNITS 1 AND 2) WERE REVIEWED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION APRIL 5-6 (88-12): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED THE REVIEW OF PROCEDURES, RECORDS, AND OPERATIONS FOR THE USE, CONTROL, AND ACCOUNTABILITY OF SPECIAL NUCLEAR MATERIAL. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TS 6.8.1, FOUR SAFETY-RELATED BREAKERS WERE NOT IN THE POSITION SPECIFIED BY PROCEDURE AND ANOTHER PROCEDURE DID NOT ADEQUATELY SPECIFY FLOW PATH VERIFICATION. CONTRARY TO TS 3.7.11.2, ON JANUARY 19 AND 20, UNIT 1 FIRE SUPPRESSION SYSTEM WAS INOPERABLE FOR APPROXIMATELY 14 HOURS WHEN THE FIRE PROTECTION PANEL SWITCH WAS INADVERTENTLY PLACED IN THE OVER RIDE POSITION. THE REQUIRED FIRE WATCHES WERE NOT INITIATED. THE FIRE DETECTION SYSTEM REMAINED INOPERABLE.

CONTRARY TO 10 CFR 50.54(Q), 10 CFR 50.47(B)(15), 10 CFR 50, APPENDIX E, SECTION IV.F, SECTION VIII.B.1 OF THE FARLEY EMERGENCY PLAN, DURING THE CALENDAR YEAR 1987, PERSONNEL DESIGNATED AS OPERATIONS SHIFT AIDE WHO MAY BE APPOINTED BY THE INTERIM EMERGENCY DIRECTOR (SHIFT SUPERVISOR) TO MAKE INITIAL NOTIFICATIONS TO THE STATES AND/OR LOCAL AUTHORITIES FROM THE CONTROL ROOM, DID NOT RECEIVE THE REQUIRED ANNUAL RETRAINING FOR COMMUNICATIONS PERSONNEL.

(8800 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: APRIL 5-6, 1988 +

INSPECTION REPORT NO: 50-348/88-12 +

* FARLEY 1 *

REPORTS FROM LICENSEE

Report Period APR 1988

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

NONE			

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1. Docket: 50-364 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 2652

5. Nameplate Rating (Gross MWe): 860

6. Design Electrical Rating (Net MWe): 829

7. Maximum Dependable Capacity (Gross MWe): 864

8. Maximum Dependable Capacity (Net MWe): 823

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

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

11. Reasons for Restrictions, If Any:
NONE

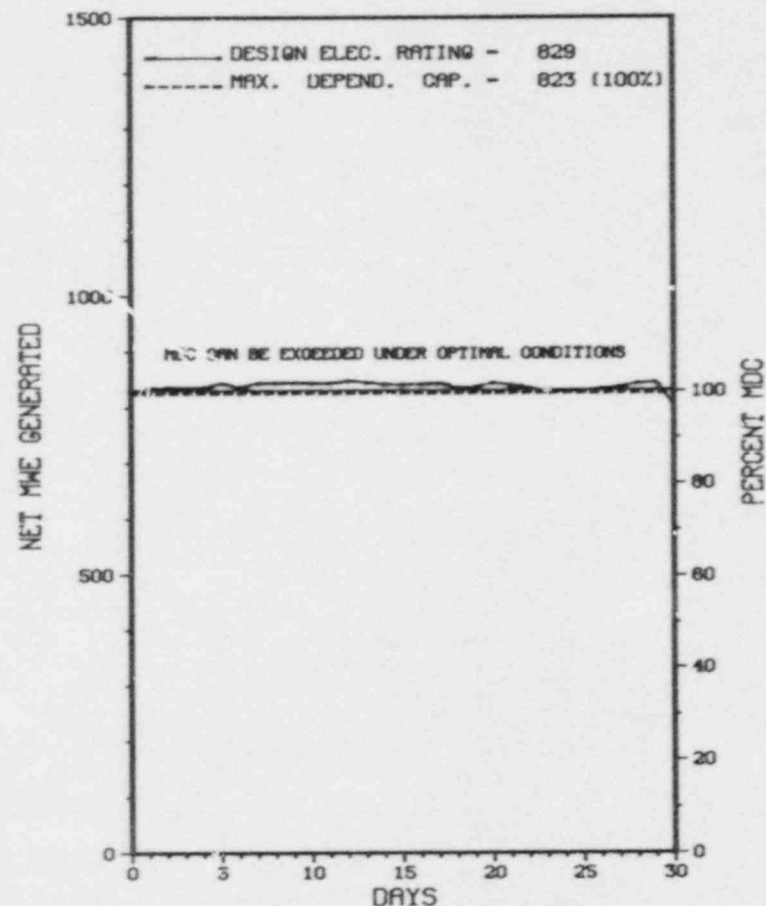
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,903.0</u>	<u>59,208.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,903.0</u>	<u>50,791.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>138.4</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,903.0</u>	<u>50,151.5</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,906,960</u>	<u>7,658,453</u>	<u>128,610,573</u>
18. Gross Elec Ener (MWH)	<u>629,566</u>	<u>2,546,718</u>	<u>41,749,812</u>
19. Net Elec Ener (MWH)	<u>600,703</u>	<u>2,428,570</u>	<u>39,580,308</u>
20. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>84.7</u>
21. Unit Avail Factor	<u>100.0</u>	<u>100.0</u>	<u>84.7</u>
22. Unit Cap Factor (MDC Net)	<u>101.5</u>	<u>101.6</u>	<u>81.2</u>
23. Unit Cap Factor (DER Net)	<u>100.8</u>	<u>100.9</u>	<u>80.6</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>5.1</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>2,690.4</u>

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

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

* FARLEY 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT FARLEY 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* FARLEY 2 *

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

* SUMMARY *

FARLEY 2 OPERATED ROUTINELY IN APRIL 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)

* FARLEY 2 *

FACILITY DATA

Report Period APR 1988

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 JANUARY 4-7 (88-01): THIS WAS A SPECIAL, ANNOUNCED INSPECTION CONDUCTED TO FOLLOWUP ON ALLEGATIONS RELATIVE TO THE LICENSEE'S FACILITY. TWENTY GENERAL ALLEGATION SUBJECT AREAS WERE IDENTIFIED TO THE LICENSEE. SOME SIXTY SPECIFIC ALLEGATIONS WERE INVESTIGATED AND ARE ADDRESSED IN THIS REPORT. NRC FOLLOWUP OF THESE ALLEGATIONS CONSISTED OF A REVIEW OF PERTINENT RECORDS, LOGS, AND REPORTS PERTAINING TO PLANT CHEMISTRY, RADIOCHEMISTRY, RADIOACTIVITY COUNTING ROOM/OPERATION, EFFLUENT MONITORING AND ENVIRONMENTAL MONITORING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 11 - APRIL 10 (88-08): THIS ROUTINE ONSITE INSPECTION INVOLVED A REVIEW OF MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY SYSTEM INSPECTION, RADIOLOGICAL PROTECTION PROGRAM, PHYSICAL SECURITY PROGRAM AND REVIEW OF EMERGENCY OPERATING PROCEDURES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 21-24 (88-09): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED: SECURITY ORGANIZATION; RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AREA; PHYSICAL BARRIERS - VITAL AREAS; ACCESS CONTROL - PERSONNEL; ACCESS CONTROLS - VEHICLES; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; AND PHYSICAL PROTECTION SAFEGUARDS INFORMATION. IN ADDITION, A REVIEW AND EVALUATION OF PERTINENT SECURITY DOCUMENTATION WAS CONDUCTED IN AN ATTEMPT TO SUBSTANTIATE SEVERAL ALLEGATIONS RELATING TO IMPROPRIETIES IN SECURITY FORCE OPERATIONS. THERE WAS ONE VIOLATION OF REGULATORY REQUIREMENT AND ONE LICENSEE IDENTIFIED VIOLATION NOTED DURING THE INSPECTION. FAILURE TO SECURE SAFEGUARDS INFORMATION WHEN UNATTENDED. FAILURE TO ENSURE AN AUTHORIZED INDIVIDUAL HAD A BADGE BEFORE GRANTING ACCESS TO A PROTECTED AREA. (LICENSEE IDENTIFIED VIOLATION)

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* FARLEY 2 *

INSPECTION SUMMARY

INSPECTION MARCH 28-31 (88-11): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF DOCUMENTATION REVIEW FOR WELDING ACTIVITIES AND NONDESTRUCTIVE EXAMINATIONS (NDE) ASSOCIATED WITH EVENTS RELATED TO UNIT 2, LOOP B, SAFETY INJECTION SYSTEM (SIS), SIX INCH PIPE REPLACEMENT WELDS AS A RESULT OF THE THROUGH WALL CRACK DETECTED IN DECEMBER 1987 AND COMMITMENTS AGREED TO BY THE LICENSEE AT THAT TIME. ALSO, A REVIEW OF EXAMINATION DATA GENERATED DURING THE UNIT 2 INSERVICE INSPECTION (ISI) WAS ACCOMPLISHED. ORDER FOR MODIFICATION OF LICENSE RELATIVE TO PRIMARY COOLANT PRESSURE ISOLATION VALVES (UNIT 1) AND IE BULLETIN 87-02 (FASTENER TESTING) (UNITS 1 AND 2) WERE REVIEWED. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION APRIL 5-6 (88-12): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED THE REVIEW OF PROCEDURES, RECORDS, AND OPERATIONS FOR THE USE, CONTROL, AND ACCOUNTABILITY OF SPECIAL NUCLEAR MATERIAL. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, FNP-O-AP-6, PROCEDURE ADHERENCE, AND FNP-O-AP-16, CONDUCT OF OPERATIONS, FNP-O-AP-52, EQUIPMENT STATUS CONTROL AND MAINTENANCE AUTHORIZATION AND FNP-O-AP-5, SURVEILLANCE PROGRAM ADMINISTRATIVE CONTROL, ON NOVEMBER 27, 1987: OPERATIONS PERSONNEL MARKED INITIAL CONDITION 3.2 OF SURVEILLANCE TEST PROCEDURE (STP) FNP-2-STP-11.6, RESIDUAL HEAT REMOVAL (RHR) INSERVICE TEST, AS NOT APPLICABLE (NA). THE LICENSEE DEPARTED FROM THE TEST PROCEDURE INITIAL CONDITION WHICH WOULD HAVE REQUIRED TAKING "A" RHR TRAIN OUT OF SERVICE AND CLOSING THE "A" RHR PUMP SUCTION ISOLATION VALVES. THIS DEPARTURE OCCURRED UNDER NON-EMERGENCY PLANT CONDITIONS AND WAS NOT PROCESSED AS A TEMPORARY PROCEDURE CHANGE. AS A RESULT OF THE NA ON INITIAL CONDITION 3.2, THE VALVE TESTING WAS NOT PERFORMED IN ACCORDANCE WITH THE APPROVED TEST PROCEDURE. ADDITIONALLY, THE LICENSEE FAILED TO PROVIDE INSTRUCTIONS FOR THE FILL AND VENT OF THAT PORTION OF THE RHR "A" TRAIN PIPING BETWEEN VALVES 8811A AND 8812A PRIOR TO ITS RETURN TO SERVICE.
(8703 4)

CONTRARY TO TS 6.8.1, FOUR SAFETY-RELATED BREAKERS WERE NOT IN THE POSITION SPECIFIED BY PROCEDURE AND ANOTHER PROCEDURE DID NOT ADEQUATELY SPECIFY FLOW PATH VERIFICATION. CONTRARY TO 10 CFR 50.54(Q), 10 CFR 50.47(B)(15), 10 CFR 50, APPENDIX E, SECTION IV.F, SECTION VIII.B.1 OF THE FARLEY EMERGENCY PLAN, DURING THE CALENDAR YEAR 1987, PERSONNEL DESIGNATED AS OPERATIONS SHIFT AIDE WHO MAY BE APPOINTED BY THE INTERIM EMERGENCY DIRECTOR (SHIFT SUPERVISOR) TO MAKE INITIAL NOTIFICATIONS TO THE STATES AND/OR LOCAL AUTHORITIES FROM THE CONTROL ROOM, DID NOT RECEIVE THE REQUIRED ANNUAL RETRAINING FOR COMMUNICATIONS PERSONNEL.

FAILURE TO TAKE COMPENSATORY MEASURES FOR AN INOPERABLE CAMERA. SAFEGUARDS INFORMATION
(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

LICENSEE CONTINUES TENDON FIELD ANCHORS INSPECTION.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

PLANT STATUS:

INSPECTION STATUS - (CONTINUED)

* FARLEY 2 *

NONE

LAST IE SITE INSPECTION DATE: APRIL 5-6, 1988 +

INSPECTION REPORT NO: 50-364/88-12 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-004	03/15/88	04/14/88	PERSONNEL ERROR RESULTS IN REQUIRED FIRE WATCH PATROL NOT BEING ESTABLISHED

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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: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (Mwt): 3292

5. Nameplate Rating (Gross MWe): 1215

6. Design Electrical Rating (Net MWe): 1093

7. Maximum Dependable Capacity (Gross MWe): 1093

8. Maximum Dependable Capacity (Net MWe): 1093

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	<u>719.0</u>	<u>2,365.0</u>	<u>2,365.0</u>
13. Hours Reactor Critical	<u>.0</u>	<u>830.7</u>	<u>830.7</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>.0</u>	<u>830.3</u>	<u>830.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>0</u>	<u>2,066,876</u>	<u>2,066,876</u>
18. Gross Elec Ener (MWH)	<u>0</u>	<u>670,845</u>	<u>670,845</u>
19. Net Elec Ener (MWH)	<u>0</u>	<u>639,601</u>	<u>639,601</u>
20. Unit Service Factor	<u>.0</u>	<u>35.1</u>	<u>35.1</u>
21. Unit Avail Factor	<u>.0</u>	<u>35.1</u>	<u>35.1</u>
22. Unit Cap Factor (MDC Net)	<u>.0</u>	<u>24.7</u>	<u>24.7</u>
23. Unit Cap Factor (DER Net)	<u>.0</u>	<u>24.7</u>	<u>24.7</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>7.9</u>	<u>7.9</u>
25. Forced Outage Hours	<u>.0</u>	<u>71.7</u>	<u>71.7</u>

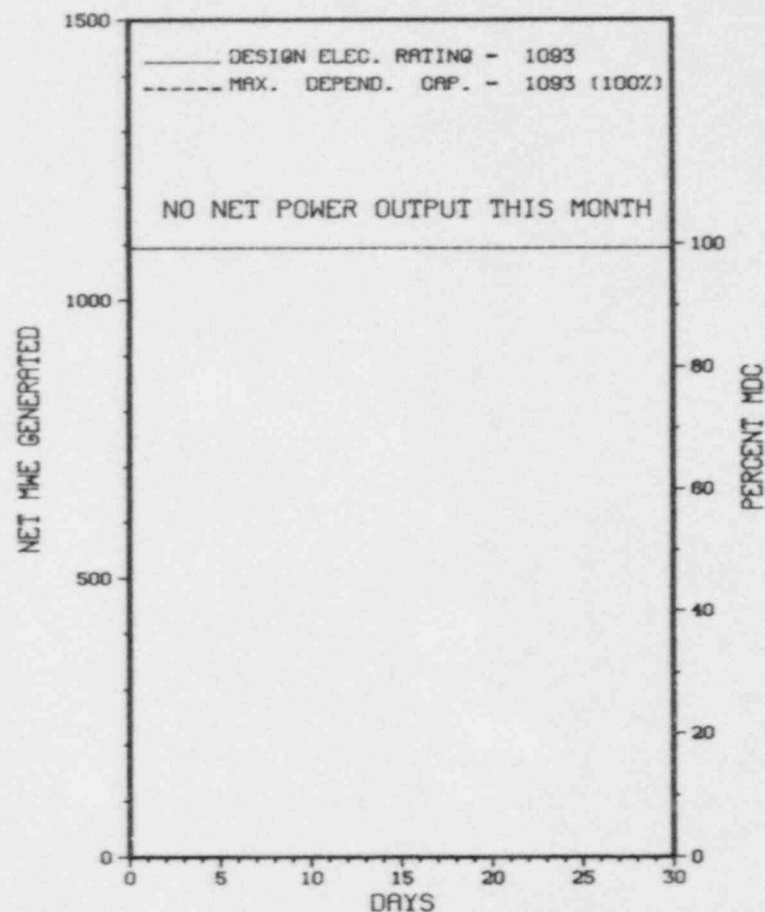
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

NONE

27. If Currently Shutdown Estimated Startup Date: 05/15/88

* F E R M I 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
FERMI 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * FERM 2 *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/27/88	S	719.0	B	4				CURRENTLY FERM 2 IS IN AN LLRT OUTAGE.

 * SUMMARY *

 FERM 2 REMAINED SHUTDOWN IN A SCHEDULED LLRT OUTAGE DURING APRIL.

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)

* FERM 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MICHIGAN

COUNTY.....MONROE

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

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...JUNE 21, 1985

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

DATE COMMERCIAL OPERATE...JANUARY 23, 1988

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...LAKE ERIE

ELECTRIC RELIABILITY
COUNCIL.....EAST CENTRAL AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DETROIT EDISON

CORPORATE ADDRESS.....2000 SECOND AVENUE
DETROIT, MICHIGAN 48226

CONTRACTOR
ARCHITECT/ENGINEER.....SARGENT & LUNDY

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....DANIEL INTERNATIONAL

TURBINE SUPPLIER.....NONE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....W. ROGERS

LICENSING PROJ MANAGER.....T. QUAY
DOCKET NUMBER.....50-341

LICENSE & DATE ISSUANCE...NPF-43, JULY 15, 1985

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

INSPECTION SUMMARY

INSPECTION ON DECEMBER 29, 1987 THROUGH FEBRUARY 5, 1988 (88003): ACTION ON PREVIOUS INSPECTION FINDINGS; FOLLOWUP OF EVENTS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE TRAINING; REPORT REVIEW; PLANT TRIPS; STARTUP TEST WITNESSING AND OBSERVATION; MANAGEMENT MEETINGS; REGIONAL REQUEST; BULLETIN FOLLOWUP AND LER FOLLOWUP. ONE VIOLATION WAS IDENTIFIED (FAILURE TO HAVE HPCI AND RCIC OPERABLE PRIOR TO EXCEEDING A REACTOR STEAM DOME PRESSURE OF 150 PSIG).

INSPECTION OF FEBRUARY 1-5, 1988 (88002): INCLUDED A REVIEW OF SECURITY ORGANIZATION RECORDS AND REPORTS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; LIGHTING; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL; DETECTION AIDS - PROTECTED AREA; ALARM STATIONS; COMMUNICATIONS; PERSONNEL TRAINING AND QUALIFICATION - GENERAL REQUIREMENT AND A REVIEW OF ALLEGATIONS RECEIVED BY NRC REGION III. A FOLLOWUP ON PREVIOUS ITEMS AND REGULATORY EFFECTIVENESS REVIEW (RER) FINDINGS WAS ALSO PERFORMED. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN EACH OF THE AREAS INSPECTED. THE ALLEGATIONS WERE UNSUBSTANTIATED, AND ONE RER OBSERVATION REMAINS OPEN WHICH DEALS WITH LLEA COMMUNICATION AND ONE OPEN ITEM DEALING WITH COMPUTER PROBLEMS REMAINS OPEN.

INSPECTION ON MARCH 7-11, 1988 (88009): ROUTINE, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM DURING A MAINTENANCE OUTAGE, INCLUDING: ORGANIZATION AND MANAGEMENT CONTROLS (IP 83722); CHANGES IN ORGANIZATION, PERSONNEL, FACILITIES, EQUIPMENT AND PROCEDURES (IP 83727, 83729); PLANNING AND PREPARATION (IP 83729); TRAINING AND QUALIFICATIONS OF CONTRACTOR PERSONNEL (IP 83729); INTERNAL AND EXTERNAL EXPOSURE CONTROL (IP 83729) CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION (IP 83729); AND THE ALARA PROGRAM (IP 83729). ADDITIONAL AREAS REVIEWED INCLUDE LIQUID AND GASEOUS RADWASTE (IP 84723 84724), EFFLUENT AND AREA MONITOR CALIBRATIONS (IP 84723,84724), AND OPEN ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. DURING THE MAINTENANCE

PAGE 2-153

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X               FERMI 2               X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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PLANT STATUS:

PLANT IS CONTINUING STARTUP TESTING FOLLOWING AN LLRT OUTAGE.

LAST IE SITE INSPECTION DATE: 04/13/88

INSPECTION REPORT NO: 88013

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-09	031188	041188	SAFETY RELIEF VALVES FAIL THEIR SET PRESSURE SURVEILLANCE TOLERANCE TEST
88-10	031088	041188	DE-ENERGIZED RADIATION MONITOR CAUSES CONTROL CENTER HEATING VENTILATION AND AIR CONDITIONING TO SHIFT TO THE RECIRCULATION MODE
88-11	031388	041288	FAILURE TO PERFORM SHIFTLY SURVEILLANCE WITHIN THE REQUIRED TIME
88-12	031688	041588	ISOLATION VALVE FOUND PARTIALLY CLOSED FOR TECHNICAL SPECIFICATION HIGH DRYWELL PRESSURE INSTRUMENT
88-13	031888	041888	INADVERTENT ISOLATION OF SHUTDOWN COOLING WHILE DE-ENERGIZING A MODULAR POWER UNIT
88-14	032088	041988	INADVERTENT START OF THE DIVISION I EMERGENCY DIESEL GENERATORS DUE TO A PROCEDURAL ERROR

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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): 805

8. Maximum Dependable Capacity (Net MWe): 778

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

ITEM 7 & 8 RECALCULATED USING PREVIOUS YEARS DATA.

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>719.0</u>	<u>2,903.0</u>	<u>111,864.0</u>
13. Hours Reactor Critical	<u>719.0</u>	<u>2,521.3</u>	<u>82,174.0</u>
14. Rx Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
15. Hrs Generator On-Line	<u>719.0</u>	<u>2,481.9</u>	<u>79,835.3</u>
16. Unit Reserve Shtdwn Hrs	<u>.0</u>	<u>.0</u>	<u>.0</u>
17. Gross Therm Ener (MWH)	<u>1,743,384</u>	<u>5,913,624</u>	<u>173,139,940</u>
18. Gross Elec Ener (MWH)	<u>597,640</u>	<u>2,026,660</u>	<u>58,634,060</u>
19. Net Elec Ener (MWH)	<u>576,975</u>	<u>1,953,975</u>	<u>56,732,445</u>
20. Unit Service Factor	<u>100.0</u>	<u>85.5</u>	<u>71.4</u>
21. Unit Avail Factor	<u>100.0</u>	<u>85.5</u>	<u>71.4</u>
22. Unit Cap Factor (MDC Net)	<u>103.1</u>	<u>85.6</u>	<u>65.3*</u>
23. Unit Cap Factor (DER Net)	<u>98.3</u>	<u>82.5</u>	<u>62.2</u>
24. Unit Forced Outage Rate	<u>.0</u>	<u>.0</u>	<u>11.3</u>
25. Forced Outage Hours	<u>.0</u>	<u>.0</u>	<u>10,337.5</u>

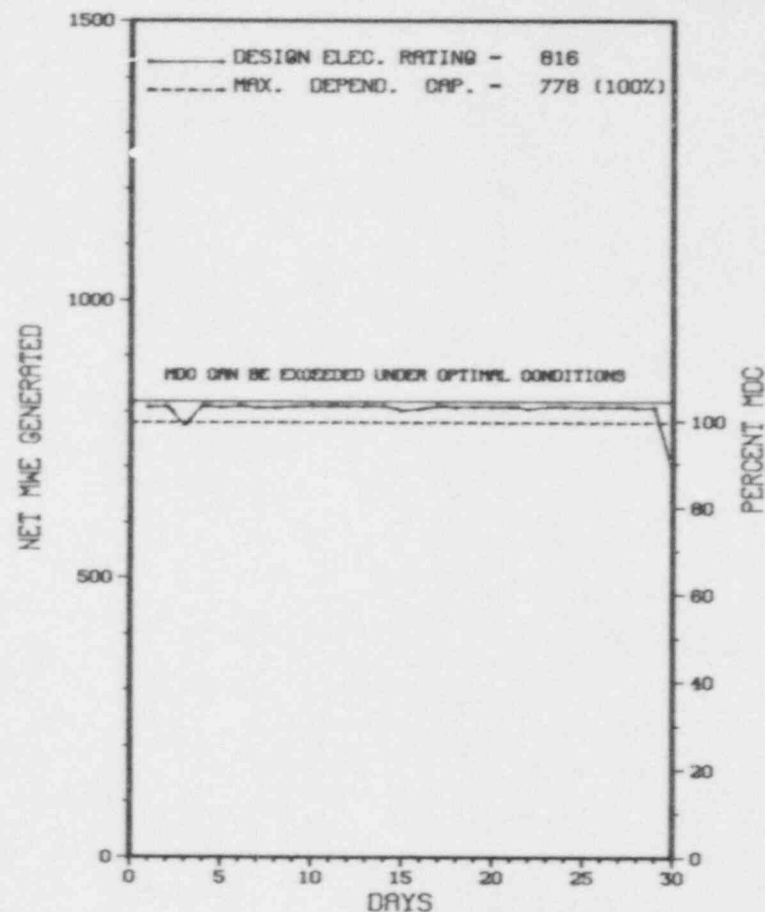
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

REFUEL - 08/26/88 - 75 DAY DURATION.

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

* FITZPATRICK *

AVERAGE DAILY POWER LEVEL (MWe) PLOT FITZPATRICK



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* FITZPATRICK *

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

* SUMMARY *

FITZPATRICK OPERATED ROUTINELY IN APRIL WITH NO OUTAGES
OR SIGNIFICANT POWER REDUCTIONS.

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

* FITZPATRICK *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....A. LUPTAK
LICENSING PROJ MANAGER....H. ABELSON
DOCKET NUMBER.....50-333
LICENSE & DATE ISSUANCE...DPR-59, OCTOBER 17, 1974
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INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

INSPECTION STATUS - (CONTINUED)

* FITZPATRICK *

FOUO

MS:

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

PROVIDED.

082 SITE INSPECTION DATE: NO INPUT PROVIDED.

ACTION REPORT 46: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

| MEMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---------|
|--------|------------------|-------------------|---------|

NO INPUT PROVIDED.

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

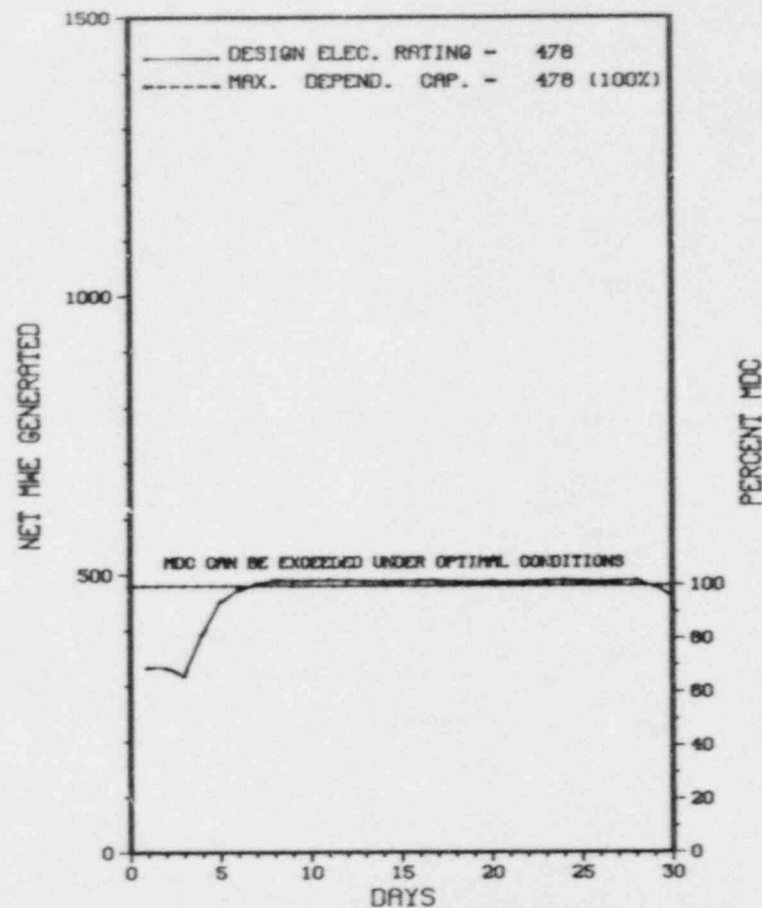
| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>127,968.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>100,462.8</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,309.5</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,903.0</u> | <u>98,771.9</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,030,843</u> | <u>3,750,855</u> | <u>128,280,472</u> |
| 18. Gross Elec Ener (MWH) | <u>350,196</u> | <u>1,275,038</u> | <u>42,559,814</u> |
| 19. Net Elec Ener (MWH) | <u>334,203</u> | <u>1,210,776</u> | <u>40,354,844</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>77.2</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>100.0</u> | <u>77.2</u> |
| 22. Unit Cap Factor (MDC Net) | <u>97.2</u> | <u>87.3</u> | <u>68.4*</u> |
| 23. Unit Cap Factor (DER Net) | <u>97.2</u> | <u>87.3</u> | <u>66.0</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>3.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>1,857.6</u> |

26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - 9/2/88 - 77 DAY DURATION.

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

* FORT CALHOUN 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
FORT CALHOUN 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * FORT CALHOUN 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-01 | 02/12/88 | S | 0.0 | H | 5 | | BK | FAN | FORT CALHOUN STATION WAS AT 70% POWER UNTIL STARTING A POWER ASCENSION ON APRIL 4, 1988. POWER WAS MAINTAINED AT 100% FROM APRIL 8 TO APRIL 29 WHEN IT WAS REDUCED TO 95% IN PREPARATION FOR MODERATOR TEMPERATURE COEFFICIENT (MTC) TESTING. |

 * SUMMARY *

 FORT CALHOUN INCURRED 1 POWER REDUCTION IN APRIL 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) |

* FORT CALHOUN 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEBRASKA
COUNTY.....WASHINGTON
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...19 MI N OF
OMAHA, NEB
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...AUGUST 6, 1973
DATE ELEC ENER 1ST GENER...AUGUST 25, 1973
DATE COMMERCIAL OPERATE...JUNE 20, 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.....OMAHA PUBLIC POWER DISTRICT
CORPORATE ADDRESS.....1623 HARNEY STREET
OMAHA,, NEBRASKA 68102
CONTRACTOR
ARCHITECT/ENGINEER.....GIBBS, HILL, DURHAM & RICHARDSON
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING
CONSTRUCTOR.....GIBBS, HILL, DURHAM & RICHARDSON
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV
IE RESIDENT INSPECTOR.....P. HARRELL
LICENSING PROJ MANAGER.....A. BOURNIA
DOCKET NUMBER.....50-285
LICENSE & DATE ISSUANCE...DPR-40, AUGUST 9, 1973
PUBLIC DOCUMENT ROOM.....W. DALE CLARK LIBRARY
215 S. 15TH STREET
OMAHA, NEBRASKA 68102

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED MARCH 14-18, 1988 (88-10) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S SURVEILLANCE TESTING AND CALIBRATION CONTROL PROGRAM AND SURVEILLANCE PROCEDURES AND RECORDS. WITHIN THE AREAS INSPECTED AN APPARENT DEVIATION FROM THE LICENSEE COMMITMENT WAS DETERMINED.

INSPECTION CONDUCTED MARCH 1-31, 1988 (88-11) ROUTINE, UNANNOUNCED INSPECTION INCLUDING FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS, OPERATIONAL SAFETY VERIFICATION, PLANT TOURS, SAFETY-RELATED SYSTEM WALKDOWNS, MONTHLY MAINTENANCE OBSERVATIONS, MONTHLY SURVEILLANCE OBSERVATIONS, SECURITY OBSERVATIONS, RADIOLOGICAL PROTECTION OBSERVATIONS, IN-OFFICE REVIEW OF PERIODIC AND SPECIAL REPORTS, FOLLOWUP ON NRC FOLLOWUP ON AN ALLEGATION, AND FOLLOWUP ON AN ENFORCEMENT CONFERENCE ON FIRE PROTECTION. WITHIN THE AREAS INSPECTED, TWO VIOLATIONS AND ONE DEVIATION WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* FORT CALHOUN 1

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

PLANT STATUS:

100% POWER OPERATION

LAST IE SITE INSPECTION DATE: MARCH 31, 1988

INSPECTION REPORT NO: 50-285/88-11

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-001 | 01/25/88 | 02/22/88 | FAILURE TO CONTROL A VERY HIGH RADIATION AREA |
| 88-002 | 01/25/88 | 02/25/88 | INOPERABILITY OF ISOLATION VALVE ON HPSI |
| 88-003 | 02/05/88 | 03/07/88 | INADEQUATE KEY CONTROL TO VERY HIGH RADIATION AREAS. |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>77,448.0</u> |
| 13. Hours Reactor Critical | <u>343.6</u> | <u>2,492.7</u> | <u>35,894.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>291.8</u> | <u>2,394.1</u> | <u>23,975.1</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>160,677</u> | <u>1,259,895</u> | <u>12,041,308</u> |
| 18. Gross Elec Ener (MWH) | <u>57,601</u> | <u>458,701</u> | <u>4,001,275</u> |
| 19. Net Elec Ener (MWH) | <u>52,368</u> | <u>430,646</u> | <u>3,559,621</u> |
| 20. Unit Service Factor | <u>40.6</u> | <u>82.5</u> | <u>31.0</u> |
| 21. Unit Avail Factor | <u>40.6</u> | <u>82.5</u> | <u>31.0</u> |
| 22. Unit Cap Factor (MDC Net) | <u>22.1</u> | <u>45.0</u> | <u>13.9</u> |
| 23. Unit Cap Factor (DER Net) | <u>22.1</u> | <u>45.0</u> | <u>13.9</u> |
| 24. Unit Forced Outage Rate | <u>59.4</u> | <u>17.5</u> | <u>62.0</u> |
| 25. Forced Outage Hours | <u>427.2</u> | <u>508.9</u> | <u>39,185.5</u> |

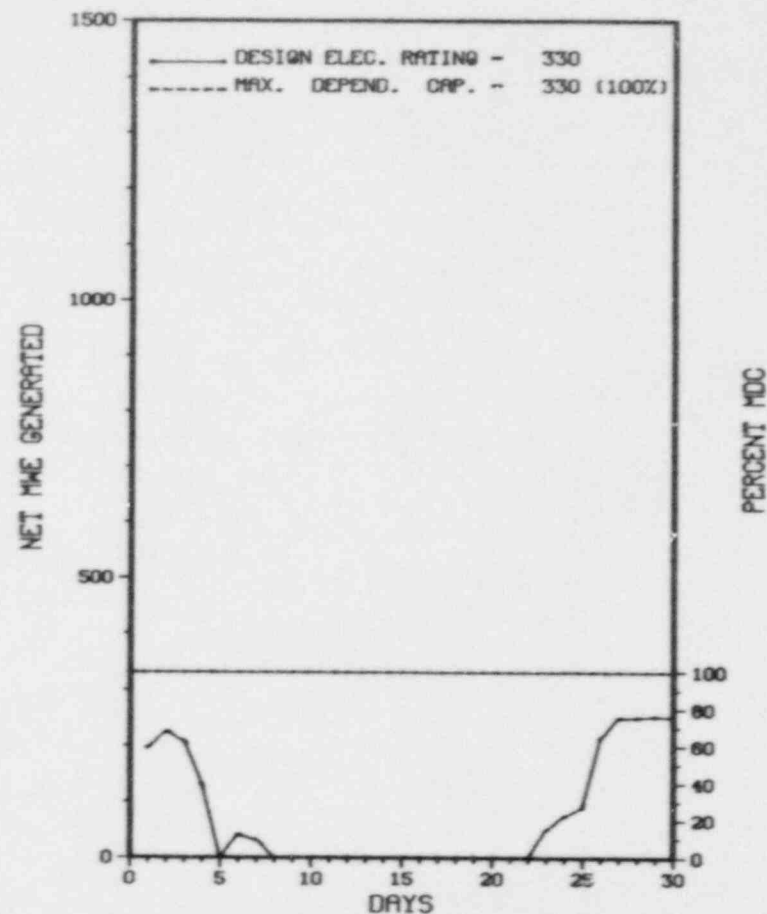
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

REPAIRS - 7/5/88 - 5: DAY DURATION.

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

* FORT ST VRAIN *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
FORT ST VRAIN



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* FORT ST VRAIN *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-07 | 04/04/88 | F | 45.7 | H | 2 | 88-004 | ZZ | ZZZZZZ | TURBINE TRIP AND MANUAL SCRAM DUE TO REGIONAL ELECTRIC DISTRIBUTION SYSTEM UPSET. |
| 88-08 | 04/07/88 | F | 381.5 | A | 2 | 88-006 | NN | EXJ | MANUAL SCRAM DUE TO RUPTURE OF 1A MAIN CIRCULATING WATER PUMP DISCHARGE EXPANSION JOINT. REPLACED THE FAILED EXPANSION JOINT. ALL SIMILAR EXPANSION JOINTS HAVE BEEN OR SOON WILL BE INSPECTED AND REPLACED IF NECESSARY. |

* SUMMARY *

FORT ST. VRAIN INCURRED 2 POWER OUTAGES IN APRIL FOR REASONS STATED ABOVE WHILE OPERATING AT A RESTRICTED POWER LEVEL.

| 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) |

* FORT ST VRAIN *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

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

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED FEB 22-26, 1988 (88-04) ROUTINE, UNANNOUNCED INSPECTION OF FIRE PROTECTION/PREVENTION PROGRAM AND IMPLEMENTATION. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB. 9 - MARCH 4, 1988 (88-05) ROUTINE, UNANNOUNCED INSPECTION OF PREVIOUSLY IDENTIFIED ITEMS OF CONCERN; SECURITY PLAN AND PROCEDURES; SECURITY ORGANIZATION; LOCKS, KEYS, AND COMBINATIONS; PROTECTED AREA - PHYSICAL BARRIERS; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL; PROTECTED AREA - DETECTION AIDS, AND PERSONNEL TRAINING AND QUALIFICATIONS. WITHIN THE AREAS INSPECTED, THREE VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB. 29 - MARCH 4, 1988 (88-06) ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE'S ACTIONS RELATED TO IE BULLETIN 85-03. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED MARCH 21-25, 1988 (88-08) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S QUALITY ASSURANCE PROGRAM INCLUDING IMPLEMENTATION IN THE AREAS OF RECORDS MANAGEMENT, DOCUMENT CONTROL, PROCUREMENT, RECEIVING INSPECTION OF MATERIALS AND COMPONENTS; IMPLEMENTATION OF 10 CFR PART 21 REQUIREMENT; LICENSEE EVENT REPORT (LER) FOLLOWUP; AND ACTIONS ON PREVIOUS INSPECTION FINDINGS.

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* FORT ST VRAIN *

ENFORCEMENT SUMMARY

FAILURE TO MAKE MANAGEMENT NOTIFICATIONS REQUIRED BY SEC.2.1 AND ATTACHMENT 2 OF FT.ST.VRAIN MEDICAL EMERGENCY PROCEDURE, ISSUE 20.
(8702 5)

LACK OF PROCEDURAL CONTROLS - INADEQUATE PROCEDURES, 2 EXAMPLES; FAILURE TO FOLLOW PROCEDURES -
(8703 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: MARCH 25, 1988

INSPECTION REPORT NO: 50-267/88-08

REPORTS FROM LICENSEE

| ===== | | | |
|--------|------------------|-------------------|--|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| 88-001 | 01/02/88 | 02/01/88 | TECHNICAL SPECIFICATION SURVEILLANCE NOT PERFORMED WITHIN REQUIRED INTERVALS |
| ===== | | | |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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):

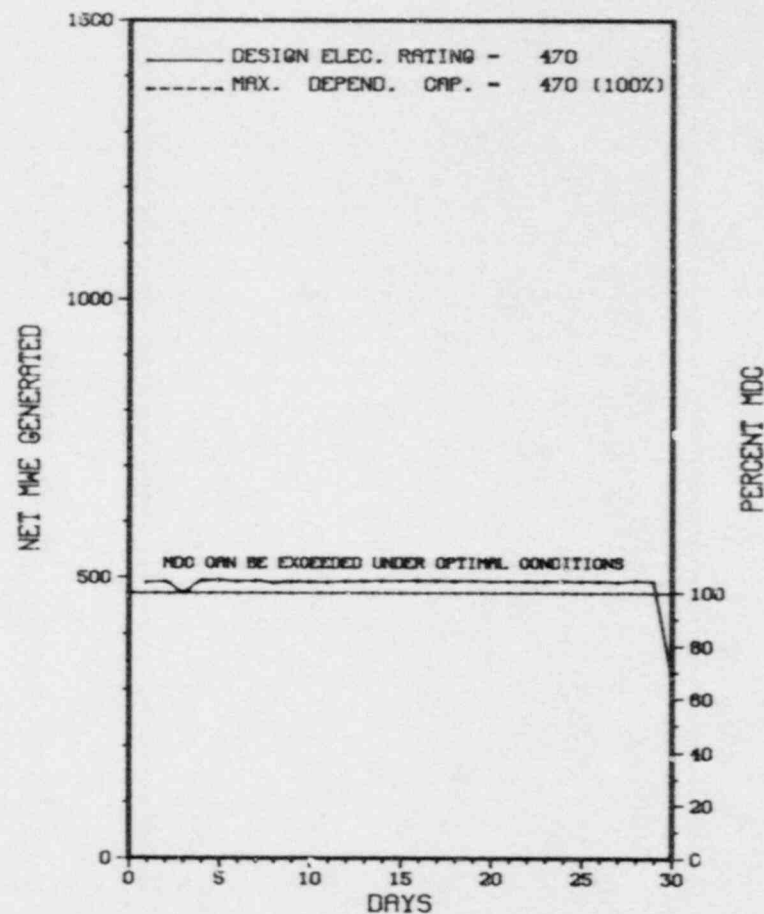
11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|--|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>161,543.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>1,885.2</u> | <u>125,903.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,687.7</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>1,820.5</u> | <u>123,468.2</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>8.5</u> |
| 17. Gross Therm Ener (MWH) | <u>1,072,037</u> | <u>2,451,015</u> | <u>173,378,348</u> |
| 18. Gross Elec Ener (MWH) | <u>366,504</u> | <u>829,059</u> | <u>56,956,645</u> |
| 19. Net Elec Ener (MWH) | <u>349,058</u> | <u>785,428</u> | <u>53,996,713</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>62.7</u> | <u>76.4</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>62.7</u> | <u>76.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>103.3</u> | <u>57.6</u> | <u>72.6*</u> |
| 23. Unit Cap Factor (DER Net) | <u>103.3</u> | <u>57.6</u> | <u>72.6*</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>11.2</u> | <u>6.4</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>229.5</u> | <u>4,553.9</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |

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

 * GINNA *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 GINNA



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * GINNA *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-1 | 04/30/88 | S | 0.0 | A | 5 | | HF | HTEXCH | LOAD REDUCTION - TUBE LEAKS IN 1A2 CONDENSER
PLUGGED 2 TUBES. |

 * SUMMARY *

 GINNA INCURRED 1 POWER REDUCTION IN APRIL DUE TO
 TUBE LEAKS.

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

* GINNA *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK
COUNTY.....WAYNE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...15 MI NE OF
ROCHESTER, NY
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...NOVEMBER 8, 1969
DATE ELEC ENER 1ST GENER...DECEMBER 2, 1969
DATE COMMERCIAL OPERATE...JULY 1, 1970
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...LAKE ONTARIO
ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....ROCHESTER GAS & ELECTRIC
CORPORATE ADDRESS.....89 EAST AVENUE
ROCHESTER, NEW YORK 14604
CONTRACTOR
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....C. MARSCHALL
LICENSING PROJ MANAGER.....C. STAHL
DOCKET NUMBER.....50-244
LICENSE & DATE ISSUANCE...DPR-18, DECEMBER 10, 1984
PUBLIC DOCUMENT ROOM.....ROCHESTER PUBLIC LIBRARY
BUSINESS AND SOCIAL SCIENCE DIVISION
115 SOUTH AVENUE
ROCHESTER, NEW YORK 14610

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):

INSPECTION STATUS - (CONTINUED)

PAGE 2-171

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: S. H. HOBBS (601) 969-2458

4. Licensed Thermal Power (MWh): 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>719.0</u> | <u>2,903.0</u> | <u>24,840.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,688.9</u> | <u>18,400.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,558.5</u> | <u>17,681.5</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,739,436</u> | <u>9,357,821</u> | <u>58,553,493</u> |
| 18. Gross Elec Ener (MWH) | <u>901,460</u> | <u>3,100,590</u> | <u>18,292,000</u> |
| 19. Net Elec Ener (MWH) | <u>867,064</u> | <u>2,979,138</u> | <u>17,458,332</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>88.1</u> | <u>71.2</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>88.1</u> | <u>71.2</u> |
| 22. Unit Cap Factor (MDC Net) | <u>105.6</u> | <u>89.9</u> | <u>61.5</u> |
| 23. Unit Cap Factor (DER Net) | <u>96.5</u> | <u>82.1</u> | <u>56.2</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>8.0</u> | <u>7.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>221.2</u> | <u>1,329.4</u> |

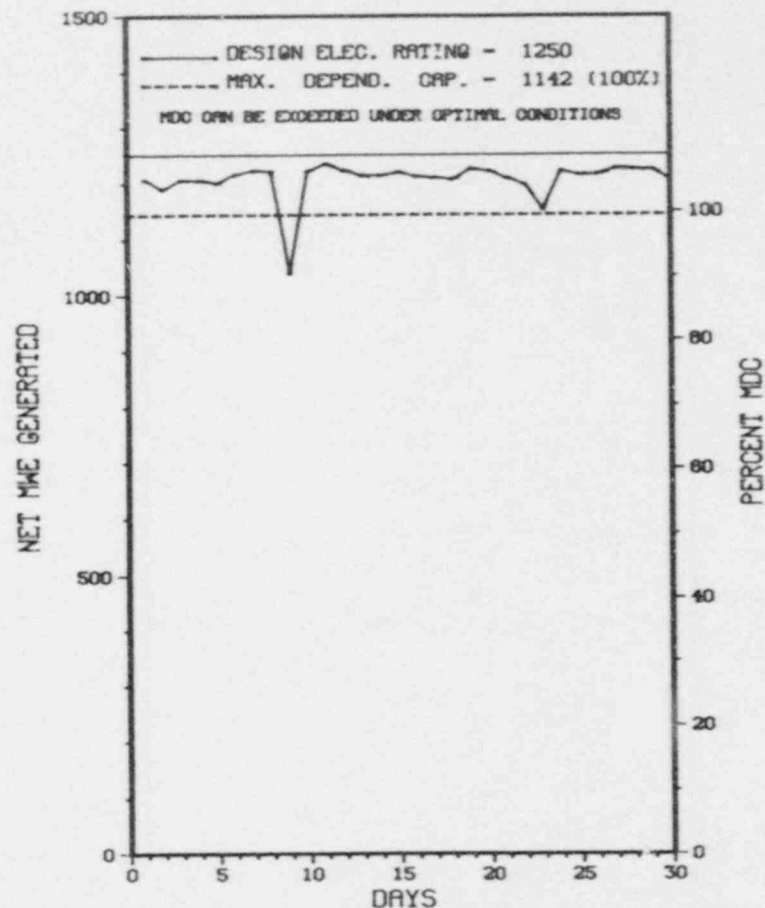
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

NONE

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

* GRAND GULF 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT GRAND GULF 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* GRAND GULF 1 *

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

NONE

* SUMMARY *

GRAND GULF 1 OPERATED ROUTINELY IN APRIL 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) |

* GRAND GULF 1 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MISSISSIPPI
COUNTY.....CLAIBORNE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI S OF
VICKSBURG, MISS
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...AUGUST 18, 1982
DATE ELEC ENER 1ST GENER...OCTOBER 20, 1984
DATE COMMERCIAL OPERATE....JULY 1, 1985
CONDENSER COOLING METHOD...CCHNDCT
CONDENSER COOLING WATER...MISSISSIPPI RIVER
ELECTRIC RELIABILITY
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....MISSISSIPPI POWER & LIGHT COMPANY
CORPORATE ADDRESS.....P.O. BOX 1640
JACKSON, MISSISSIPPI 39205
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....ALLIS-CHALMERS

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....R. BUTCHER
LICENSING PROJ MANAGER.....L. KINTNER
DOCKET NUMBER.....50-416
LICENSE & DATE ISSUANCE....NPF-29, NOVEMBER 1, 1984
PUBLIC DOCUMENT ROOM.....HINDS JUNIOR COLLEGE
MC LENDON LIBRARY
RAYMOND, MISSISSIPPI 39154

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

INSPECTION SUMMARY

+ INSPECTION MARCH 7-11 (88-04): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN SELECTED ASPECTS OF OPERATIONS, DESIGN CONTROL AND LICENSEE ACTION ON PREVIOUSLY IDENTIFIED INSPECTION FINDINGS. NO VIOLATIONS/DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 7-11 (88-05): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF OFFGAS SYSTEM HYDROGEN CONTROL AND OFFSITE DOSE ASSESSMENTS DURING CHARCOAL BED BYPASSES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

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

LAST IS SITE INSPECTION DATE: MARCH 7-11, 1988 +

INSPECTION REPORT NO: 50-416/88-05 +

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

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=====
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| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-006 | 01/20/88 | 02/19/88 | CONDENSER MANWAY LEAKAGE ON HOTWELLOW LEVEL SWITCHES TRIPS ALL CONDEN, BOOSTER PUMPS; RX SCRAM ON LOW WATER LEVEL |
| 88-007 | 02/04/88 | 03/04/88 | FAILURE TO TAKE THE REQUIRED ACTION IN TECH SPECS FOR INOPERABLE RADIATION MONITOR ON STANDBY SERVICE WATER SYSTEM |
| 88-008 | 02/08/88 | 03/09/88 | MSIV-LCS DILUTION AIR INLET FOUND SEALED WITH TAPE |
| 88-009 | 02/27/88 | 03/29/88 | HYDROGEN IGNITION IN OFFGAS SYSTEM WHILE SWAPPING STEAM JET AIR EJECTORS |
| 88-010 | 03/15/88 | 04/13/88 | REACTOR SCRAM ON LOW WATER LEVEL |
| 88-011 | 03/17/88 | 04/15/88 | INADVERTENT RHR PUMP START DUE TO PERSONNEL ERROR |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 1825

5. Nameplate Rating (Gross MWe): 667 X 0.9 = 600

6. Design Electrical Rating (Net MWe): 582

7. Maximum Dependable Capacity (Gross MWe): 596

8. Maximum Dependable Capacity (Net MWe): 569

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

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

11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>178,223.0</u> |
| 13. Hours Reactor Critical | <u>706.5</u> | <u>964.2</u> | <u>147,153.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,221.5</u> |
| 15. Hrs Generator On-Line | <u>706.5</u> | <u>835.5</u> | <u>141,035.6</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>398.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,221,711</u> | <u>1,303,835</u> | <u>244,073,839</u> |
| 18. Gross Elec Ener (MWH) | <u>406,271</u> | <u>431,601</u> | <u>80,211,979</u> |
| 19. Net Elec Ener (MWH) | <u>386,962</u> | <u>396,113</u> | <u>75,956,727</u> |
| 20. Unit Service Factor | <u>98.3</u> | <u>28.8</u> | <u>79.1</u> |
| 21. Unit Avail Factor | <u>98.3</u> | <u>28.8</u> | <u>79.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>94.6</u> | <u>24.0</u> | <u>77.8*</u> |
| 23. Unit Cap Factor (DER Net) | <u>92.5</u> | <u>23.4</u> | <u>73.3*</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>5.9</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>2,432.8</u> |

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

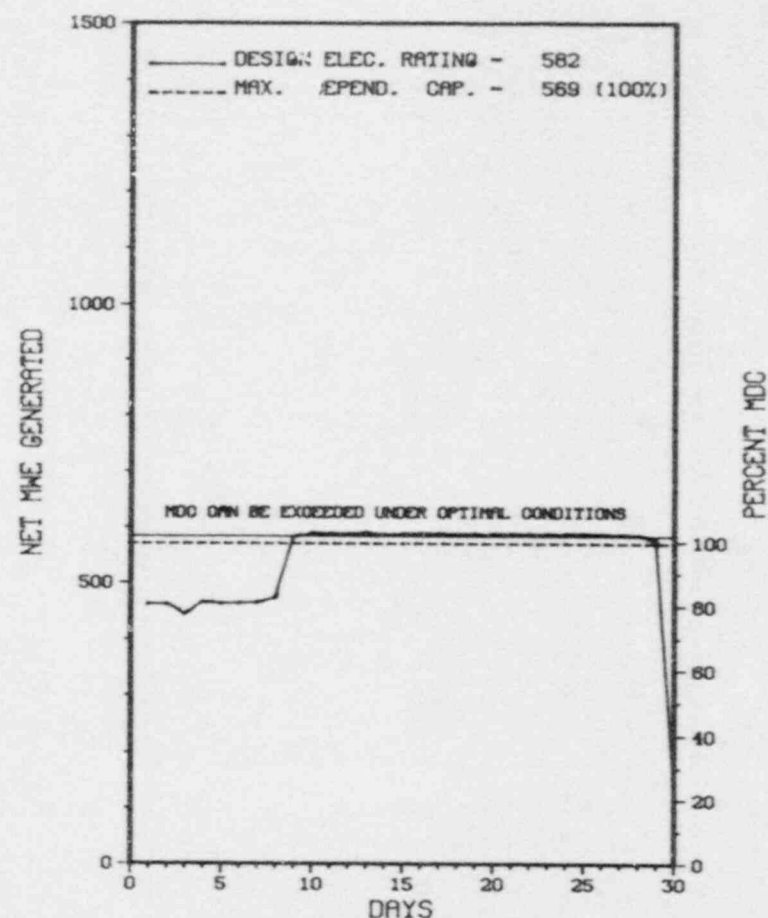
NONE

27. If Currently Shutdown Estimated Startup Date: 05/16/88

 * HADDAM NECK *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HADDAM NECK



04.01.1988

* Item calculated with a Weighted Average

PAGE 2-176

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* HADDAM NECK *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-02 | 04/29/88 | S | 0.0 | A | 5 | | AB | P/SEAL | POWER REDUCTION TO REMOVE PLANT FROM SERVICE TO REPLACE NO. 3 REACTOR COOLANT PUMP SEALS. |
| 88-03 | 04/30/88 | S | 12.5 | F | 3 | 88-012 | JC | | REACTOR TRIPPED DURING SCHEDULED POWER REDUCTION TO SHUTDOWN FOR NO. 3 REACTOR COOLANT PUMP MAINTENANCE. WHILE RETURNING IDLED LOOP TO SERVICE, POWER INCREASED ABOVE P8 AND PLANT TRIPPED ON LOW FLOW. PLANT CONTINUED WITH SCHEDULED SHUTDOWN. |

* SUMMARY *

HADDAM NECK INCURRED 1 POWER OUTAGE AND 1 POWER REDUCTION
IN APRIL 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) |

* HADDAM NECK *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CONNECTICUT
COUNTY.....MIDDLESEX
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...13 MI E OF
MERIDEN, CONN
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JULY 24, 1967
DATE ELEC ENER 1ST GENER...AUGUST 7, 1967
DATE COMMERCIAL OPERATE....JANUARY 1, 1968
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER....CONNECTICUT RIVER
ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....CONNECTICUT YANKEE ATOMIC POWER
CORPORATE ADDRESS.....P.O. BOX 270
HARTFORD, CONNECTICUT 06101
CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....STONE & WEBSTER
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....T. SCHEDLOSKY
LICENSING PROJ MANAGER.....A. WANG
DOCKET NUMBER.....50-213
LICENSE & DATE ISSUANCE...DPR-61, DECEMBER 27, 1974
PUBLIC DOCUMENT ROOM.....RUSSELL LIBRARY
123 BROAD STREET
MIDDLETOWN, CONNECTICUT 06457

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 APR 1988

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. | | | |
| ===== | | | |

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* HARRIS 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|--------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-009 | 04/29/88 | S | 0.0 | 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. |

* SUMMARY *

HARRIS 1 INCURRED 1 POWER REDUCTION IN APRIL 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NORTH CAROLINA
COUNTY.....WAKE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...20 MI SW OF
RALEIGH, NC
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JANUARY 3, 1987
DATE ELEC ENER 1ST GENER...JANUARY 19, 1987
DATE COMMERCIAL OPERATE...MAY 2, 1987
CONDENSER COOLING METHOD...NDCT
CONDENSER COOLING WATER...MAKEUP RESERVOIR
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....CAROLINA POWER & LIGHT
CORPORATE ADDRESS.....336 FAYETTEVILLE STREET
RALEIGH, NORTH CAROLINA 27602
CONTRACTOR
ARCHITECT/ENGINEER.....EBASCO
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....DANIEL INTERNATIONAL
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....G. MAXWELL
LICENSING PROJ MANAGER.....B. BUCKLEY
DOCKET NUMBER.....50-400
LICENSE & DATE ISSUANCE...NPF-63, JANUARY 12, 1987
PUBLIC DOCUMENT ROOM.....RICHARD B. HARRISON LIBRARY
1313 NEW BERN AVE.
RALEIGH, N. C., 27610

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 20 - MARCH 20 (88-06): THIS ROUTINE, ANNOUNCED INVOLVED INSPECTION IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, ON-SITE FOLLOW-UP OF EVENTS AND SUBSEQUENT WRITTEN REPORTS OF NONROUTINE EVENTS, OPERATIONAL SAFETY VERIFICATION, MONTHLY SURVEILLANCE OBSERVATION, AND MONTHLY MAINTENANCE OBSERVATION. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED, "FAILURE TO REQUIRE EOPS TO BE CONSISTENT WITH THE FSAR".

INSPECTION MARCH 28-31 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF PLANT CHEMISTRY. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                HARRIS 1                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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* WESTINGHOUSE INFORMED HARRIS OF AN UNANALYZED CONDITION INVOLVING LTOP SYSTEM DURING MSLB OR S/G TUBE RUPTURE LTOP SYSTEM MODIFICATION IS REQUIRED.

NONE.

NONE.

NORMAL OPERATIONS.

INSPECTION REPORT NO: 59-400/88-07 +

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-007 | 03/09/88 | 04/08/88 | PLANT TRIP DUE TO LOSS OF FEEDWATER TO "B" STEAM GENERATOR CAUSED BY A FAILED FUSE |

1. Docket: 50-321 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J.H. RICHARDSON (912) 367-7781 X2878

4. Licensed Thermal Power (MWt): 2436

5. Nameplate Rating (Gross MWe): 850

6. Design Electrical Rating (Net MWe): 776

7. Maximum Dependable Capacity (Gross MWe): 789

8. Maximum Dependable Capacity (Net MWe): 756

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

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

11. Reasons for Restrictions, If Any: _____
NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|----------------|------------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>108,095.0</u> |
| 13. Hours Reactor Critical | <u>299.0</u> | <u>2,442.9</u> | <u>77,207.8</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>268.5</u> | <u>2,401.5</u> | <u>73,178.2</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>568,830</u> | <u>5,732,092</u> | <u>158,487,472</u> |
| 18. Gross Elec Ener (MWH) | <u>176,110</u> | <u>1,845,330</u> | <u>51,224,710</u> |
| 19. Net Elec Ener (MWH) | <u>162,785</u> | <u>1,756,987</u> | <u>48,688,206</u> |
| 20. Unit Service Factor | <u>37.3</u> | <u>82.7</u> | <u>67.7</u> |
| 21. Unit Avail Factor | <u>37.3</u> | <u>82.7</u> | <u>67.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>29.9</u> | <u>8ⁿ.1</u> | <u>59.6</u> |
| 23. Unit Cap Factor (DER Net) | <u>29.2</u> | <u>78.0</u> | <u>58.0</u> |
| 24. Unit Forced Outage Rate | <u>51.0</u> | <u>12.1</u> | <u>13.5</u> |
| 25. Forced Outage Hours | <u>279.9</u> | <u>330.9</u> | <u>11,194.0</u> |

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

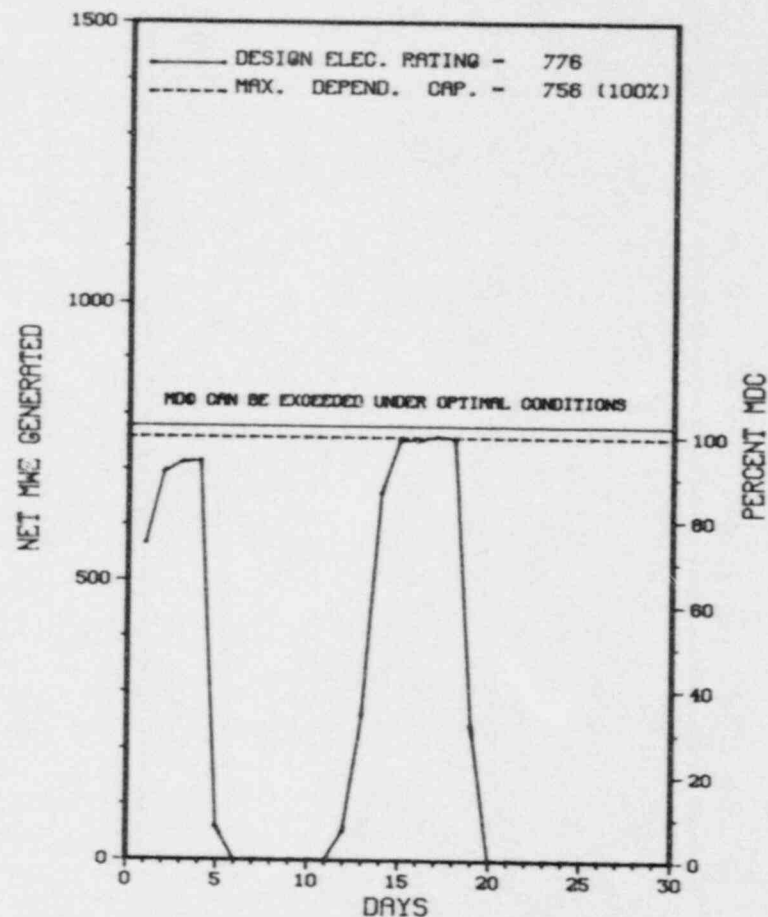
REFUELING - SEPT. 21, 1988 - 65 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: 05/11/88

 * HATCH 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HATCH 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* HATCH 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|--------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-003 | 04/05/88 | S | 0.0 | B | 5 | | CI | VESSEL | POWER REDUCTION FOR UNIT SHUTDOWN. (MAINTENANCE OUTAGE) |
| 88-004 | 04/06/88 | S | 170.6 | B | 2 | | CI | VESSEL | UNIT SHUTDOWN TO INVESTIGATE AND REPAIR SOURCE(S) OF HIGH DRYWELL LEAKAGE. |
| 88-005 | 04/19/88 | F | 279.9 | H | 3 | 1-88-005 | HA | INSTRU | AUTOMATIC SCRAM DUE TO INADEQUATE PROCEDURE FOR SWAPPING OF TURBINE LUBE OIL COOLERS WHICH CAUSED A TRIP SIGNAL TO BE GENERATED BY THE THRUST BEARING WEAR DETECTOR ON THE MAIN TURBINE. |

* SUMMARY *

HATCH 1 INCURRED 2 OUTAGES AND 1 POWER REDUCTION IN APRIL.

| 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....GEORGIA

COUNTY.....APPLING

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...11 MI N OF
BAXLEY, GA

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...SEPTEMBER 12, 1974

DATE ELEC ENER 1ST GENER...NOVEMBER 11, 1974

DATE COMMERCIAL OPERATE...DECEMBER 31, 1975

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER...ALTAMAHA RIVER

ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GEORGIA POWER

CORPORATE ADDRESS.....333 PIEDMONT AVENUE
ATLANTA, GEORGIA 30308

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....GEORGIA POWER CO.

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....P. HOLMES RAY

LICENSING PROJ MANAGER.....L. CROCKER
DOCKET NUMBER.....50-321

LICENSE & DATE ISSUANCE...DPR-57, OCTOBER 13, 1974

PUBLIC DOCUMENT ROOM.....APPLING COUNTY PUBLIC LIBRARY
301 CITY HALL DRIVE
BAXLEY, GEORGIA 31513

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

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 20 - MARCH 25 (88-07): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, OPERATING REACTOR EVENTS, REACTOR STARTUP AFTER REFUELING OUTAGE, PART 21 REPORT FOLLOWUP, AND NRC BULLETIN FOLLOWUP. THREE VIOLATIONS WERE IDENTIFIED INVOLVING A FAILURE TO PERFORM AN ADEQUATE AVERAGE POWER RANGE MONITOR (APRM) SURVEILLANCE, TWO EXAMPLES OF FAILURE TO FOLLOW SURVEILLANCE PROCEDURE, AND A FAILURE TO HAVE AN ADEQUATE TURBINE CONTROL VALVE TEST PROCEDURE.

INSPECTION MARCH 7-11 (88-08): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF COMPLEX SURVEILLANCE TESTING AND IE BULLETIN FOLLOW-UP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION APRIL 4-8 (88-10): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED A REVIEW OF PROCEDURES, RECORDS, OPERATIONS, AND PHYSICAL INVENTORY FOR USE, CONTROL AND ACCOUNTABILITY OF SPECIAL NUCLEAR MATERIAL. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TS 6.8.1.A, IN OCTOBER OF 1987, THE INSTRUCTIONS OF MWO 1-86-7823 FOR THE REWIRING OF VACUUM BREAKER TEST SOLENOID VALVES 1T48-342C, E, AND F WERE INADEQUATE AND RESULTED IN INCORRECT WIRING OF THE TEST CIRCUITRY. SUBSEQUENT TO THIS

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X              HATCH 1              X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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MAINTENANCE, VACUUM BREAKERS 1T48-F323 C, E, AND F FAILED TO TEST PROPERLY DURING THE MONTHS OF NOVEMBER AND DECEMBER IN 1987. THE INCORRECT WIRING OF THE TEST SOLENOID VALVES DID NOT IMPAIR THE ABILITY OF THE TORUS TO DRYWELL VACUUM BREAKERS TO FUNCTION IN THE NORMAL, SELF-ACTUATED MODE. CONTRARY TO TABLE 3.1-1 OF THE TS, ON FEBRUARY 9, 1988, UNIT 1 WAS OPERATING AT 100 PERCENT OF RATED POWER WITH ONLY ONE APRM CHANNEL AVAILABLE TO PROVIDE APRM DOWNSCALE SCRAM INPUT TO RPS CHANNEL A, AND THE RPS CHANNEL WAS UNTRIPPED. APRM CHANNELS A AND C HAD BEEN BYPASSED AND ONLY CHANNEL E REMAINED AVAILABLE FOR THE DOWNSCALE SCRAM INPUT FOR AT LEAST SEVERAL HOURS.
(8800 4)

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: APRIL 4-8, 1988 +

INSPECTION REPORT NO: 50-321/88-10 +

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---------|
| NONE. | | | |

1. Docket: 50-366 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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): 801

8. Maximum Dependable Capacity (Net MWe): 768

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

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

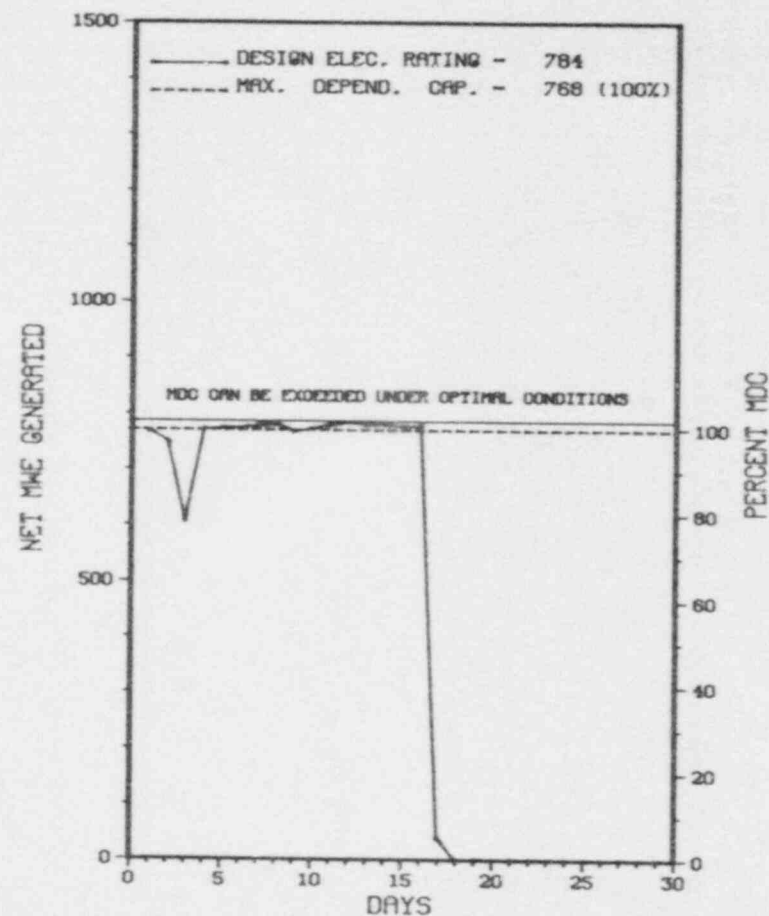
11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|--|----------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>75,864.0</u> |
| 13. Hours Reactor Critical | <u>384.9</u> | <u>1,000.5</u> | <u>53,692.5</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>384.9</u> | <u>893.9</u> | <u>51,467.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>916,949</u> | <u>1,836,255</u> | <u>110,574,578</u> |
| 18. Gross Elec Ener (MWH) | <u>306,900</u> | <u>602,050</u> | <u>3,357,150</u> |
| 19. Net Elec Ener (MWH) | <u>290,369</u> | <u>562,806</u> | <u>34,607,318</u> |
| 20. Unit Service Factor | <u>53.5</u> | <u>30.8</u> | <u>67.8</u> |
| 21. Unit Avail Factor | <u>53.5</u> | <u>30.8</u> | <u>67.8</u> |
| 22. Unit Cap Factor (MDC Net) | <u>52.6</u> | <u>25.2</u> | <u>59.4</u> |
| 23. Unit Cap Factor (DER Net) | <u>51.5</u> | <u>24.7</u> | <u>58.2</u> |
| 24. Unit Forced Outage Rate | <u>46.5</u> | <u>29.2</u> | <u>8.8</u> |
| 25. Forced Outage Hours | <u>334.1</u> | <u>369.2</u> | <u>4,953.0</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |

27. If Currently Shutdown Estimated Startup Date: 05/14/88

 * HATCH 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 HATCH 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * HATCH 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|--------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-005 | 04/17/88 | F | 334.1 | H | 3 | 2-88-011 | IA | INSTRU | DURING THE PERFORMANCE OF THE WEEKLY TURBINE STOP VALVE TEST (WHICH CAUSES A SCRAM SIGNAL TO EXIST IN THE ASSOCIATED RPS CHANNEL) A SPURIOUS SCRAM SIGNAL WAS RECEIVED IN THE REDUNDANT RPS CHANNEL. THE EXISTANCE OF SCRAM SIGNAL IN BOTH RPS CHANNELS SIMULTANEOUSLY CAUSED THE REACTOR TO SCRAM. |

 * SUMMARY *

HATCH 2 INCURRED 1 FORCED OUTAGE IN APRIL 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) |

* HATCH 2 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....GEORGIA
COUNTY.....APPLING
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...11 MI N OF
BAXLEY, GA
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...JULY 4, 1978
DATE ELEC ENER 1ST GENER...SEPTEMBER 22, 1978
DATE COMMERCIAL OPERATE....SEPTEMBER 5, 1979
CONDENSER COOLING METHOD...COOLING TOWER
CONDENSER COOLING WATER...ALTAMAHA RIVER
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GEORGIA POWER
CORPORATE ADDRESS.....333 PIEDMONT AVENUE
ATLANTA, GEORGIA 30308
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....GEORGIA POWER CO.
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....P. HOLMES RAY
LICENSING PROJ MANAGER.....L. CROCKER
DOCKET NUMBER.....50-366
LICENSE & DATE ISSUANCE....NPF-5, JUNE 13, 1978
PUBLIC DOCUMENT ROOM.....APPLING COUNTY PUBLIC LIBRARY
301 CITY HALL DRIVE
BAXLEY, GEORGIA 31513

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

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 20 - MARCH 25 (88-07): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, OPERATING REACTOR EVENTS, REACTOR STARTUP AFTER REFUELING OUTAGE, PART 21 REPORT FOLLOWUP, AND NRC BULLETIN FOLLOWUP. THREE VIOLATIONS WERE IDENTIFIED INVOLVING A FAILURE TO PERFORM AN ADEQUATE AVERAGE POWER RANGE MONITOR (APRM) SURVEILLANCE, TWO EXAMPLES OF FAILURE TO FOLLOW SURVEILLANCE PROCEDURE, AND A FAILURE TO HAVE AN ADEQUATE TURBINE CONTROL VALVE TEST PROCEDURE.

INSPECTION MARCH 7-11 (88-08): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF COMPLEX SURVEILLANCE TESTING AND IE BULLETIN FOLLOW-UP. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION APRIL 4-8 (88-10): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED A REVIEW OF PROCEDURES, RECORDS, OPERATIONS, AND PHYSICAL INVENTORY FOR USE, CONTROL AND ACCOUNTABILITY OF SPECIAL NUCLEAR MATERIAL. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                HATCH 2                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: APRIL 4-8, 1988 +

INSPECTION REPORT NO: 50-366/88-10 +

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---|
| 88-005 | 03/05/88 | 03/31/88 | PERSONNEL ERRO RESULTS IN INSTRUMENTS INOPERABLE LONGER THAN ALLOWED FOR SURVEILLANCE |
| 88-006 | 03/18/88 | 04/18/88 | PROCEDURE DEFICIENCY CAUSES SCRAM AND ONE VALVE FAILS TO CLOSE ON GROUP 1 ISOLATION |
| 88-008 | 03/21/88 | 04/20/88 | CALIBRATION PROCEDURAL DEFICIENCY FOR FEEDWATER CONTROLLER CAUSES LOW WA TER LEVEL SCRAM |
| 88-009 | 03/21/88 | 04/18/88 | PERSONNEL ERRORS CAUSE MISSED TESTS RESULTING IN CONDITION PROHIBITED BY TECHNICAL SPECIFICATIONS |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: BRYAN W. GORMAN (609) 339-3400

4. Licensed Thermal Power (MWt): 3293

5. Nameplate Rating (Gross MWe): 1118

6. Design Electrical Rating (Net MWe): 1067

7. Maximum Dependable Capacity (Gross MWe): 1118

8. Maximum Dependable Capacity (Net MWe): 1067

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

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

11. Reasons for Restrictions, If Any: _____

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|-------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>11,951.0</u> |
| 13. Hours Reactor Critical | <u>482.4</u> | <u>1,527.4</u> | <u>9,385.5</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>355.3</u> | <u>1,393.2</u> | <u>9,138.3</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,125,571</u> | <u>4,503,855</u> | <u>28,312,422</u> |
| 18. Gross Elec Ener (MWH) | <u>368,984</u> | <u>1,502,968</u> | <u>9,414,665</u> |
| 19. Net Elec Ener (MWH) | <u>347,186</u> | <u>1,432,261</u> | <u>8,997,299</u> |
| 20. Unit Service Factor | <u>49.4</u> | <u>48.0</u> | <u>76.5</u> |
| 21. Unit Avail Factor | <u>49.4</u> | <u>48.0</u> | <u>76.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>45.3</u> | <u>46.2</u> | <u>54.7*</u> |
| 23. Unit Cap Factor (DER Net) | <u>45.3</u> | <u>46.2</u> | <u>70.6</u> |
| 24. Unit Forced Outage Rate | <u>4.1</u> | <u>1.1</u> | <u>7.8</u> |
| 25. Forced Outage Hours | <u>15.1</u> | <u>15.1</u> | <u>775.7</u> |

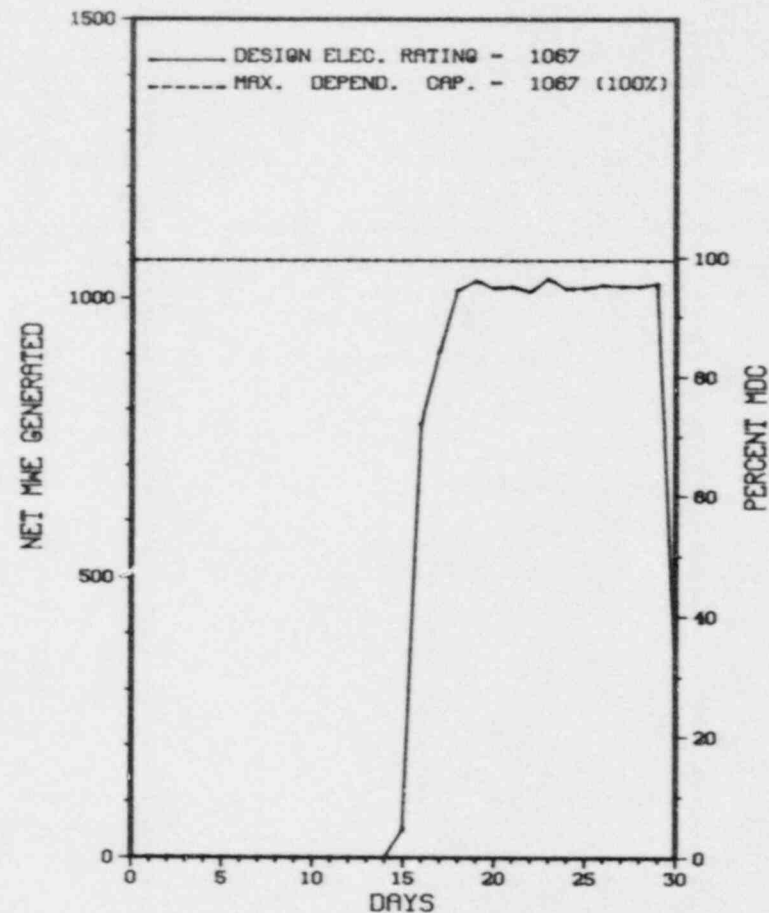
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):

NONE

27. If Currently Shutdown Estimated Startup Date: 05/02/88

 * HOPE EK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 HOPE CREEK 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* HOPE CREEK 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|------------------|---|
| 3 | 02/13/88 | S | 348.6 | C | 4 | | | CONTINUATION OF REFUELING OUTAGE. |
| 4 | 04/30/88 | F | 15.1 | A | 2 | | | MANUAL REACTOR SCRAM DUE TO LOSS OF CIRCULATING WATER CAUSED BY THE FAILURE OF THE MULTIPLEXER BETWEEN THE CONTROL ROOM AND THE CIRCULATING WATER BUILDING. |

* SUMMARY *

HOPE CREEK ENTERED MONTH SHUTDOWN FOR SCHEDULED REFUELING OUTAGE. SUBSEQUENTLY RETURNED TO POWER AND EXPERIENCED 1 POWER 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) |

* HOPE CREEK 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW JERSEY
COUNTY.....SALEM
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...18 MI SE OF
WILMINGTON, DEL
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...JUNE 28, 1986
DATE ELEC ENER 1ST GENER...AUGUST 1, 1986
DATE COMMERCIAL OPERATE...DECEMBER 20, 1986
CONDENSER COOLING METHOD...NDCT
CONDENSER COOLING WATER...DELAWARE RIVER
ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS
CORPORATE ADDRESS.....80 PARK PLACE
NEWARK, NEW JERSEY 07101
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

REGION RESPONSIBLE.....I
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

INSPECTION STATUS - (CONTINUED)

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*****
*             HOPE CREEK 1             *
*****

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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 |
|--------|------------------|-------------------|---------|
|--------|------------------|-------------------|---------|

INFO. NOT SUPPLIED BY REGION

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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): 809

9. If Changes Occu. Above Since Last Report, Give Reasons:
ITEMS 6 & 7 REFLECT SUMMER RATINGS.

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

11. Reasons for Restrictions, If Any: _____
NONE

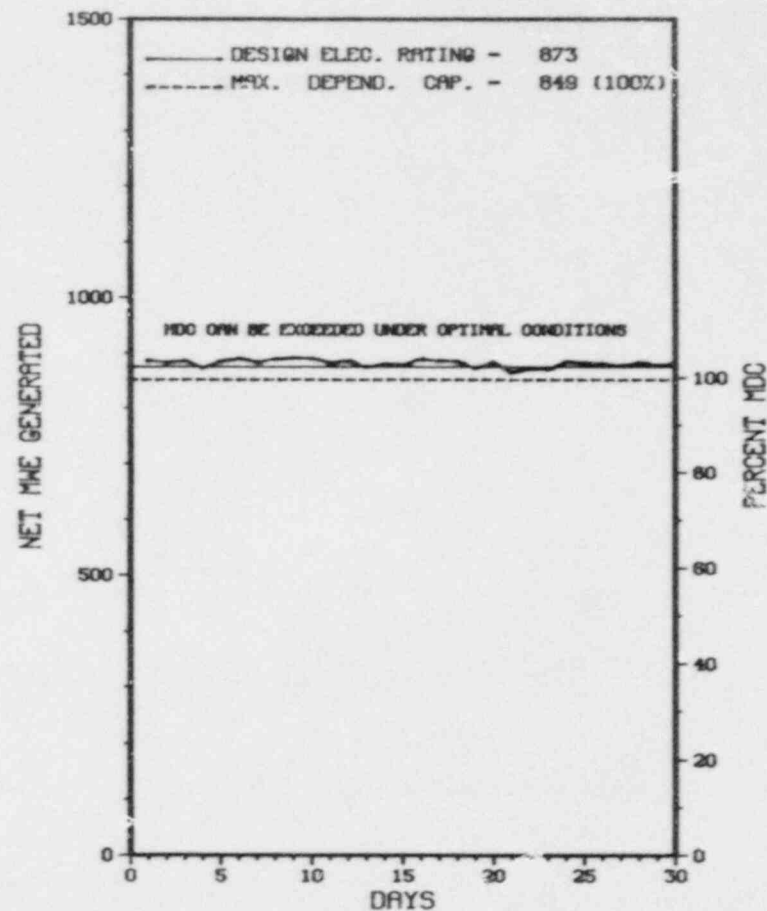
| | MONTH | YEAR | CUMULATIVE |
|---|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>121,272.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,392.3</u> | <u>83,011.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>2,867.6</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,258.9</u> | <u>80,655.2</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,981,921</u> | <u>5,939,557</u> | <u>210,782,427</u> |
| 18. Gross Elec Ener (MWH) | <u>654,002</u> | <u>1,950,744</u> | <u>65,564,300</u> |
| 19. Net Elec Ener (MWH) | <u>632,402</u> | <u>1,868,468</u> | <u>62,004,256</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>77.8</u> | <u>66.5</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>77.8</u> | <u>66.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>103.6</u> | <u>74.8</u> | <u>60.1*</u> |
| 23. Unit Cap Factor (DER Net) | <u>100.8</u> | <u>73.7</u> | <u>58.6</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>1.1</u> | <u>8.5</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>25.3</u> | <u>7,283.3</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 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

INDIAN POINT 2



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * INDIAN POINT 2 *

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

NONE

 * SUMMARY *

 INDIAN POINT 2 OPERATED ROUTINELY IN APRIL 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) |

* INDIAN POINT 2 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK
COUNTY.....WESTCHESTER
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI N OF
NEW YORK CITY, NY
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...MAY 22, 1973
DATE ELEC ENER 1ST GENER...JUNE 26, 1973
DATE COMMERCIAL OPERATE...AUGUST 1, 1974
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING 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
DOCKET 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

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.

INSPECTION STATUS - (CONTINUED)

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*****
*          INDIAN POINT 2          *
*****

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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 |
|--------|------------------|-------------------|---------|
|--------|------------------|-------------------|---------|

NO INPUT PROVIDED.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|-----|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 5 |
|---|---|---|---|---|---|---|---|---|-----|---|

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: L. KELLY (914) 739-8200

4. Licensed Thermal Power (Mwt): 3025

5. Nameplate Rating (Gross MWe): 1126 X 0.9 = 1013

6. Design Electrical Rating (Net MWe): 965

7. Maximum Dependable Capacity (Gross MWe): 1000

8. Maximum Dependable Capacity (Net MWe): 965

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

10. Power Level To Which Restricted, If Any (Net MWe):
NONE

11. Reasons for Restrictions, If Any:
NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>102,288.0</u> |
| 13. Hours Reactor Critical | <u>684.7</u> | <u>2,842.7</u> | <u>62,188.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>678.0</u> | <u>2,830.5</u> | <u>60,296.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,007,147</u> | <u>8,486,778</u> | <u>160,498,921</u> |
| 18. Gross Elec Ener (MWH) | <u>662,750</u> | <u>2,805,570</u> | <u>51,183,626</u> |
| 19. Net Elec Ener (MWH) | <u>640,168</u> | <u>2,710,657</u> | <u>49,101,215</u> |
| 20. Unit Service Factor | <u>94.3</u> | <u>97.5</u> | <u>58.9</u> |
| 21. Unit Avail Factor | <u>94.3</u> | <u>97.5</u> | <u>58.9</u> |
| 22. Unit Cap Factor (MPC Net) | <u>92.3</u> | <u>96.8</u> | <u>49.7</u> |
| 23. Unit Cap Factor (DER Net) | <u>92.3</u> | <u>96.8</u> | <u>49.7</u> |
| 24. Unit Forced Outage Rate | <u>5.7</u> | <u>2.5</u> | <u>17.9</u> |
| 25. Forced Outage Hours | <u>41.0</u> | <u>72.5</u> | <u>13,161.9</u> |

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

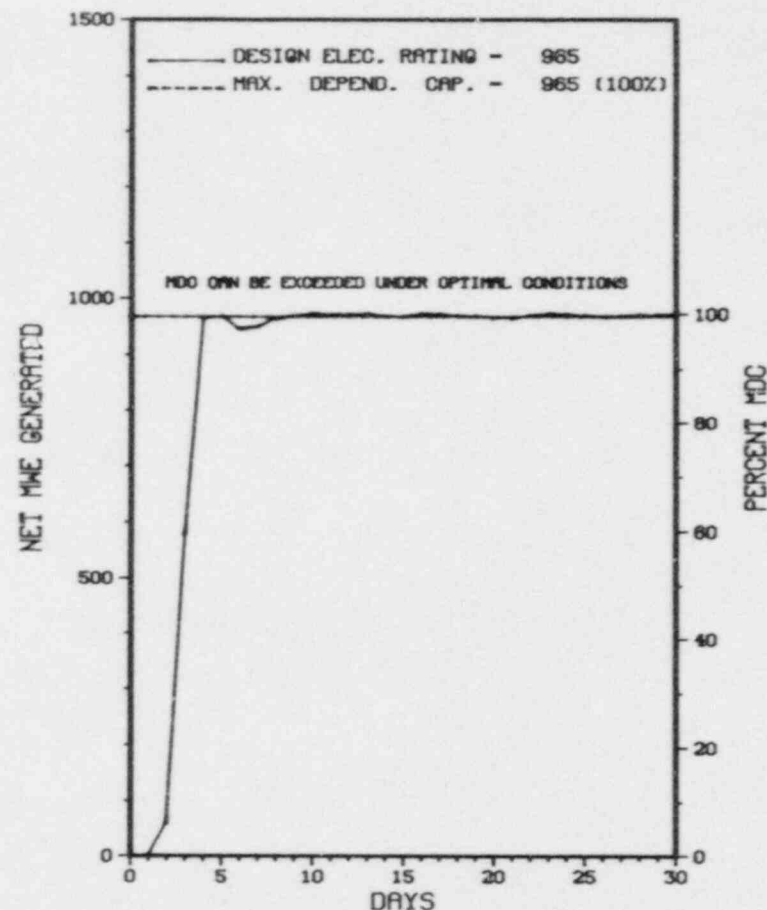
MAINTENANCE-MAY, 1988-18 DAY DURATION

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

* INDIAN POINT 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

INDIAN POINT 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* INDIAN POINT 3 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 02 | 03/31/88 | F | 41.0 | A | 4 | 88-002-00 | HH | PUMPXX | UNIT TRIP ON HIGH LEVEL IN NO. 31 STEAM GENERATOR DUE TO THE STEAM GENERATOR LEVEL TRANSIENTS WHICH FOLLOWED AN INADVERTANT AUTOMATIC TRIP OF NO. 32 MAIN BOILER FEED PUMP. |

* SUMMARY *

INDIAN POINT 3 ENTERED MONTH SHUTDOWN. SUBSEQUENTLY RETURNED TO POWER AND OPERATED ROUTINELY FOR REMAINDER OF THE MONTH.

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

* INDIAN POINT 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK
COUNTY.....WESTCHESTER
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI N OF
NEW YORK CITY, NY
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...APRIL 6, 1976
DATE ELEC ENER 1ST GENER...APRIL 27, 1976
DATE COMMERCIAL OPERATE...AUGUST 30, 1976
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...HUDSON RIVER
ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NEW YCRK 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

FAILURE TO FOLLOW QA PROCEDURE 1601 SECTION 6-2 REQUIREMENTS TO PROVIDE TIMELY ESCALATED ACTION FOR LATE RESPONSES TO QA FINDING AND NONCONFORMANCE AND CORRECTIVE ACTION REQUESTS (NOBS).
(8702 4)

FAILURE TO FOLLOW ANSI N45.2-9-1974 SECTION 5-3 REQUIREMENTS FOR WRITTEN PROCEDURES WHICH: (1) DESCRIBE THE RECORD STORAGE AREAS, (2) DESCRIBE THE RECORD FILING SYSTEM USED, (3) DESCRIBE THE METHOD USED TO VERIFY THAT THE RECORDS RECEIVED IN AGREEMENT WITH THE TRANSMITTAL DOCUMENT OR A PREESTABLISHED CHECK LIST. ALSO LICENSEE HAD NOT ESTABLISHED A PROGRAM FOR VERIFYING THAT RECEIVED RECORDS WERE IN AGREEMENT WITH THE TRANSMITTAL DOCUMENT OR A PREESTABLISHED CHECK LIST. 10 CFR 20.263(E) REQUIRESS IN PART, THAT EACH AREA OR ROOM IN WHICH LICENSED MATERIAL IS USED OR STORED AND WHICH CONTAINS ANY RADIOACTIVE MATERIAL IN AN AMOUNT EXCEEDING 10 TIMES THE QUANTITY OF SUCH MATERIAL IN APPENDIX C OR THIS PART, SHALL BE CONSPICUOUSLY POSTED WITH A SIGN OR SIGNS BEARING THE RADIATION CAUTION SYMBOL AND THE WORDS "CAUTION RADIOACTIVE MATERIALS". CONTRARY TO THE ABOVE, AS OF DECEMBER 4, 1987, THE JOL STORAGE AREA, AN AREA LOCATED ON THE 36' ELEVATION OF THE PAB, WHICH CONTAINED LICENSED RADIOACTIVE MATERIAL IN EXCESS OF 10 TIMES THE AMOUNT SPECIFIED IN APPENDIX C OF 10 CFR, WAS NOT POSTED WA SIGN BEARING THE WORDS "CAUTION RADIOACTIVE MATERIALS."

Report Period APR 1988

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

* INDIAN POINT 3 *

ENFORCEMENT SUMMARY

(8702 5)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: G. RUTER (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):

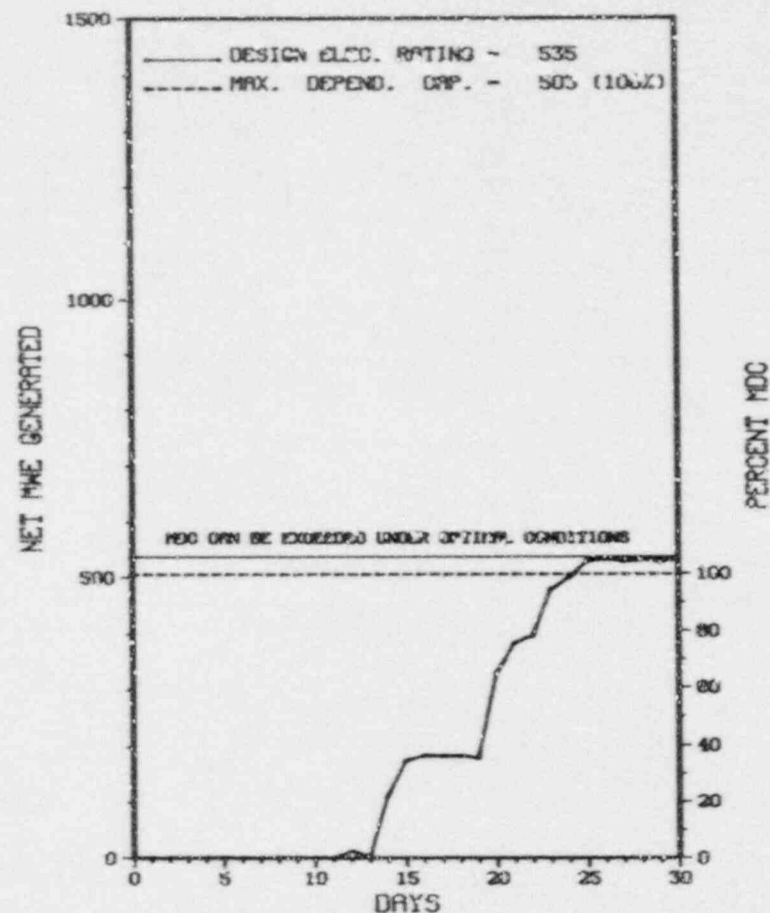
11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|--|----------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>121,632.0</u> |
| 13. Hours Reactor Critical | <u>472.2</u> | <u>1,950.0</u> | <u>103,412.3</u> |
| 14. 2x Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>2,330.5</u> |
| 15. Hrs Generator On-Line | <u>411.4</u> | <u>1,889.2</u> | <u>101,771.0</u> |
| 16. Unit Reserve Shtdwn hrs | <u>.0</u> | <u>.0</u> | <u>10.0</u> |
| 17. Gross Therm Ener (MWH) | <u>478,696</u> | <u>2,886,872</u> | <u>160,508,746</u> |
| 18. Gross Elec Ener (MWH) | <u>159,200</u> | <u>959,700</u> | <u>52,946,800</u> |
| 19. Net Elec Ener (MWH) | <u>150,318</u> | <u>914,802</u> | <u>50,419,312</u> |
| 20. Unit Service Factor | <u>57.2</u> | <u>65.1</u> | <u>83.7</u> |
| 21. Unit Avail Factor | <u>57.2</u> | <u>65.1</u> | <u>83.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>41.6</u> | <u>62.6</u> | <u>80.4*</u> |
| 23. Unit Cap Factor (DER Net) | <u>39.1</u> | <u>58.9</u> | <u>77.5</u> |
| 24. Unit Forced Outage Rate | <u>9.3</u> | <u>2.2</u> | <u>2.9</u> |
| 25. Forced Outage Hours | <u>42.0</u> | <u>42.9</u> | <u>2,381.7</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |

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

 * KWAUNEE *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 KWAUNEE



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* Kewaunee *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 2 | 03/02/88 | S | 263.4 | C | 4 | | ZZ | ZZZZZZ | CONTINUED CYCLE XIII-XIV REFUELING OUTAGE. THE OUTAGE WAS COMPLETED ON APRIL 12, 1988. |
| 3 | 04/12/88 | F | 2 | G | 3 | | HH | ZZZZZZ | DURING THE TURBINE WARMUP RUN PRIOR TO OVERSPEED TRIP TESTING, CONDENSER FLUSHING OPERATIONS WERE BEING PERFORMED TO REDUCE THE AMOUNT OF IMPURITIES BEING FED TO THE STEAM GENERATORS. WHILE MANUALLY DUMPING THE CONDENSER HOTWELL A LOW-LOW HOTWELL LEVEL CONDITION OCCURRED WHICH INITIATED THE SEQUENCE: CONDENSATE PUMP TRIP, MAIN FEEDWATER PUMP TRIP, TURBINE TRIP, AND REACTOR TRIP. |
| 4 | 04/12/88 | F | 37.8 | A | 1 | | EB | GENERA | AFTER THE UNIT WAS PLACED ON LINE FOLLOWING THE TRIP S/D NO. 3, AN EXCESSIVE AMOUNT OF OIL WAS DETECTED AT THE GENERATOR DRAINS. GENERATOR SEAL OIL UNIT PRESSURE IMBALANCE HAD PERMITTED SEAL OIL TO ENTER THE GENERATOR. THE UNIT WAS TAKEN OFF LINE TO PERMIT CLEANING THE GENERATOR LEAD BOXES AS A PRECAUTIONARY MEASURE. |
| 5 | 04/14/88 | S | 2.2 | B | 1 | | HA | ZZZZZZ | A SHORT OUTAGE WAS TAKEN TO PERFORM THE TURBINE OVERSPEED TRIP TEST. |

* SUMMARY *

KEWAUNEE ENTERED MONTH SHUTDOWN FOR REFUELING. RETURNED TO POWER AND SUBSEQUENTLY INCURRED 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) |

* Kewaunee *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....WISCONSIN

COUNTY.....KEWAUNEE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...27 MI E OF
GREEN BAY, WI.

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MARCH 7, 1974

DATE ELEC ENER 1ST GENER...APRIL 8, 1974

DATE COMMERCIAL OPERATE...JUNE 16, 1974

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...LAKE MICHIGAN

ELECTRIC RELIABILITY
COUNCIL.....MID-AMERICA
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....WISCONSIN PUBLIC SERVICE

CORPORATE ADDRESS.....P.O. BOX 19002
GREEN BAY, WISCONSIN 54307

CONTRACTOR
ARCHITECT/ENGINEER.....PIONEER SERVICES & ENGINEERING

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....PIONEER SERVICES & ENGINEERING

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....R. NELSON

LICENSING PROJ MANAGER.....J. GIITTER
DOCKET NUMBER.....50-305

LICENSE & DATE ISSUANCE...DPR-43, DECEMBER 21, 1973

PUBLIC DOCUMENT ROOM.....UNIVERSITY OF WISCONSIN
LIBRARY LEARNING CENTER
2420 NICOLET DRIVE
GREEN BAY, WISCONSIN 54301

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 16-23, 1988 (87005): INCLUDED A REVIEW OF A SECURITY incident involving a vital area (VA) barrier degradation that was discovered on February 9, 1988, and has existed since construction of the plant. Based on this inspection, one violation was identified: Physical Barriers - Vital Areas: The licensee failed to control access to a vital area because of a degraded physical barrier which was not monitored.

INSPECTION ON MARCH 10-11, 15-18, 21-23 1988 (88007): UNANNOUNCED SAFETY inspection of eddy current examination of steam generator tubing, ultrasonic examination of steam generator transition girth weld and sleeving of steam generator tubes (73052), (73753) and (73755). No violations or deviation were identified.

INSPECTION ON MARCH 22-24, 1988 (88009): SPECIAL SAFETY INSPECTION OF licensee activities relative to damaged 4160 volt bus and implementation of commitments to Generic Letter 83-28. Closed TI 2515/64RI and TI 2515/91. (22591B) (22564B) (93702B) No violations or deviations were identified.

INSPECTION FROM JANUARY 1 1988, THROUGH FEBRUARY 15, 1988 (88003): ROUTINE unannounced inspection by resident inspectors of previous inspection findings; operational safety; surveillance; maintenance; regional requests; design change modifications; TI Natural Circulation; TI Circulation; TI Fastener Testing; and Event V valves. Two findings from previous inspections were closed, one open item (Report No. 305/85017), and one unresolved item (Report No. 305/87019). One Level IV violation was identified, for details see Section 6 OF THIS REPORT.

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                KEWAUNEE                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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INSPECTION FROM MARCH 1-31, 1988 (88006): ROUTINE UNANNOUNCED INSPECTION by resident inspectors of previous inspection findings; operational safety; surveillance; maintenance; licensee events; and spent fuel pool activities. No significant safety issues were identified.

NONE

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

LICENSING PROJECT MANAGER - J.G. GIITTER

PLANT STATUS:

SHUT DOWN FOR REFUELING; SCHEDULED STARTUP ON APRIL 12, 1988.

LAST IE SITE INSPECTION DATE: 03/25/88

INSPECTION REPORT NO: 88009

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-02 | 032888 | 042788 | UNPLANNED ACTUATION OF SAFETY INJECTION DUE TO PROCEDURAL WEAKNESS AND PERSONNEL ERROR |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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): _____

11. Reasons for Restrictions, If Any: _____
NONE

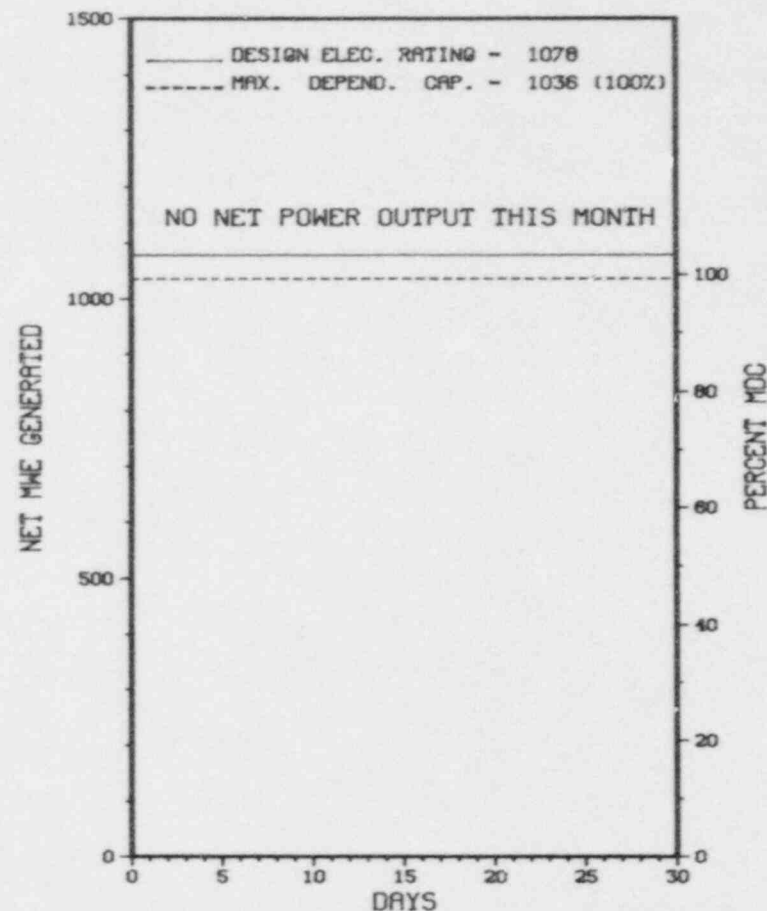
| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|---------------|------------------|-------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>37,967.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>1,729.8</u> | <u>21,773.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,640.9</u> |
| 15. Hrs Generator On-Line | <u>.0</u> | <u>1,729.8</u> | <u>21,158.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1.0</u> |
| 17. Gross Therm Ener (MWH) | <u>0</u> | <u>5,252,088</u> | <u>63,222,404</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>1,777,631</u> | <u>18,744,890</u> |
| 19. Net Elec Ener (MWH) | <u>-2,920</u> | <u>1,708,826</u> | <u>17,818,614</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>59.6</u> | <u>55.7</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>59.6</u> | <u>55.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>56.8</u> | <u>45.3</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>54.6</u> | <u>43.5</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>13.4</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>3,264.6</u> |

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

27. If Currently Shutdown Estimated Startup Date: 07/03/88

* LASALLE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
LASALLE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* LASALLE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 4 | 03/13/88 | S | 719.0 | C | 4 | | | | CONTINUING UNIT ONE SECOND REFUEL OUTAGE. |

* SUMMARY *

LASALLE 1 REMAINED SHUTDOWN 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) |

* LASALLE 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS
COUNTY.....LA SALLE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...11 MI SE OF
OTTAWA, ILL
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...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. SHEMANSKI
DOCKET NUMBER.....50-373
LICENSE & DATE ISSUANCE...NPF-11, AUGUST 13, 1982
PUBLIC DOCUMENT ROOM.....ILLINOIS VALLEY COMMUNITY COLLEGE
RURAL ROUTE NO. 1
OGLESBY, ILLINOIS 61348

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON MARCH 14-18, 1988 (88006; 88006): ROUTINE, ANNOUNCED INSPECTION of maintenance activities and licensee's action on a previous inspection finding, scheduled to coincide with a planned outage, using selected portions of Inspection Modules 62700, 62702, 62704, 62705, 92701 and 92720. In the areas inspected, one violation was identified for failure to take timely corrective action. With the exception noted, the inspectors concluded that overall maintenance was adequately accomplished, effective, and self assessed.

INSPECTION ON FEBRUARY 10 THROUGH MARCH 25, 1988 (88004;88004): ROUTINE, unannounced inspection conducted by resident inspectors of licensee actions on previous inspection findings; operational safety; surveillance; training; licensee Event Reports; outages; unit trips; and management meeting. Of the eight areas inspected, no violations or deviations were identified. The licensee has had several problems during this report period in which the resident inspector has expressed his concerns. Some of these are the personnel error resulting in a reactor scram, a missed Technical specification surveillance and a problem not identifying degraded equipment. Several of these items are still being investigated. The licensee started a planned 15 week outage on Unit 1 which, to date, appears to be progressing well. Major items to be accomplished are drywell cooling modification, decontamination of the reactor recirculation piping, and snubber reduction.

INSPECTION ON APRIL 13-15, 1988 (88014; 88013): ROUTINE CLOSEOUT INSPECTION of licensee action on previously identified items (92701). No violation or deviations were identified.

INSPECTION ON MARCH 2-10, 18, 24, 1988 (88005; 88004): ROUTINE ANNOUNCED inspection of: (i) the chemistry program, including

Report Period APR 1988

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

* LASALLE 1 *

INSPECTION SUMMARY

procedures, organization, and training; (2) reactor 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.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT SHUTDOWN FOR REFUELING OUTAGE ON 3/15/88 (EXPECTED TO LAST END OF JUNE)

LAST IE SITE INSPECTION DATE: 04/15/88

INSPECTION REPORT NO: 88014

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

=====

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---|
| 88-02 | 031688 | 041588 | TYPE B AND TYPE C LEAKAGE EXCEEDED 0.6 LA DURING LEAK RATE TESTING |
| 88-03 | 032588 | 042588 | TWO INOPERABLE INTERMEDIATE RANGE MONITORS DURING REFUEL DUE TO PERSONNEL ERROR |

=====

1. Docket: 50-374 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>30,959.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,701.5</u> | <u>19,486.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,716.7</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,684.9</u> | <u>19,156.9</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,073,168</u> | <u>7,913,808</u> | <u>55,708,863</u> |
| 18. Gross Elec Ener (MWH) | <u>694,986</u> | <u>2,648,921</u> | <u>18,457,132</u> |
| 19. Net Elec Ener (MWH) | <u>668,945</u> | <u>2,552,307</u> | <u>17,634,830</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>92.5</u> | <u>61.9</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>92.5</u> | <u>61.9</u> |
| 22. Unit Cap Factor (MDC Net) | <u>89.8</u> | <u>84.9</u> | <u>55.0</u> |
| 23. Unit Cap Factor (DER Net) | <u>86.3</u> | <u>81.6</u> | <u>52.8</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>7.5</u> | <u>18.4</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>218.1</u> | <u>4,317.9</u> |

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

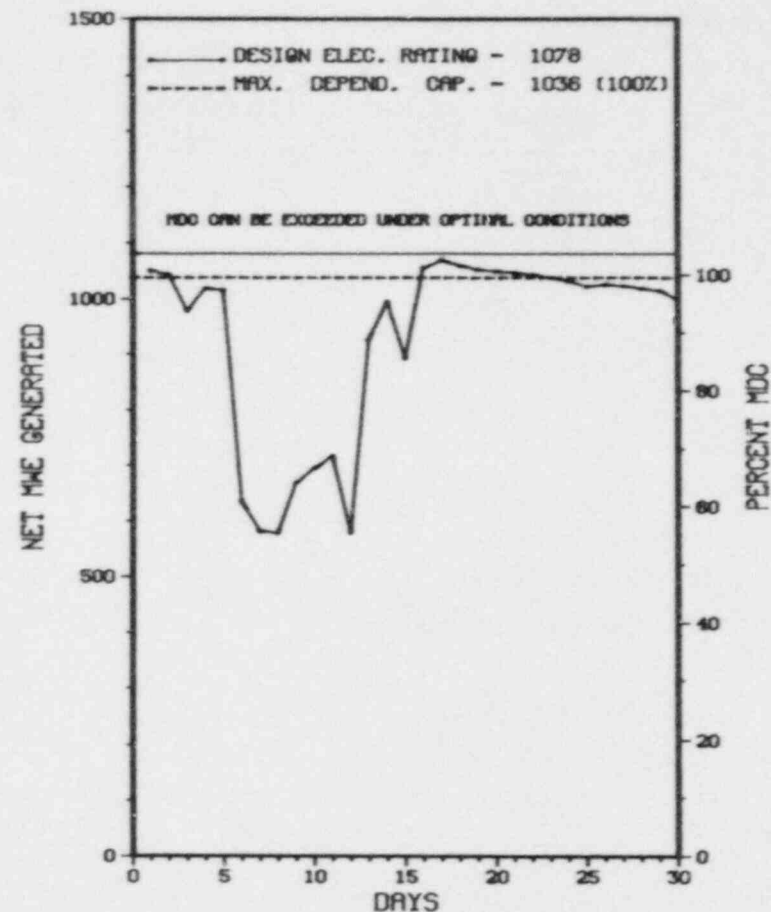
REFUELING OUTAGE - OCTOBER 12, 1988.

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

* LASALLE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

LASALLE 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* LASALLE 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|------------------|---|
| 8 | 04/06/88 | S | 0.0 | H | 5 | | | "A" TDRPF WAS BROUGHT OFF LINE TO REPLACE COUPLING AND CORRECT ALIGNMENT. |

* SUMMARY *

LASALLE 2 INCURRED 1 POWER REDUCTION IN APRIL 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-Owner | 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) |

* LASALLE 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS
COUNTY.....LA SALLE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...11 MI SE OF
OTTAWA, ILL
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...MARCH 10, 1984
DATE ELEC ENER 1ST GENER...APRIL 20, 1984
DATE COMMERCIAL OPERATE...OCTOBER 19, 1984
CONDENSER COOLING METHOD...POND
CONDENSER COOLING WATER...RESERVOIR
ELECTRIC RELIABILITY
COUNCIL.....MID-AMERICA
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
IE RESIDENT INSPECTOR.....M. JORDAN
LICENSING PROJ MANAGER.....P. SHERANSKI
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 MARCH 14-18, 1988 (88006; 88006): ROUTINE ANNOUNCED INSPECTION of maintenance activities and licensee's action on a previous inspection finding, scheduled to coincide with a planned outage, using selected portions of Inspection Modules 62700, 62702, 62704, 62705, 92701 and 92720. In the areas inspected, no violations or deviations were identified. The licensee has had several problems during this report period in which the resident inspector has expressed his concerns. Some of these are the personnel error resulting in a reactor scram, a missed Technical specification surveillance and a problem not identifying degraded equipment. Several of these items are still being investigated. The licensee started a planned 15 week outage on Unit 1 which, to date, appears to be progressing well. Major items to be accomplished are drywell cooling modification, decontamination of the reactor recirculation piping, and snubber reduction.

INSPECTION ON FEBRUARY 10 THROUGH MARCH 25, 1988 (88004;88004): ROUTINE, unannounced inspection conducted by resident inspectors of licensee actions on previous inspection findings: operational safety; surveillance; training; licensee Event Reports; outages; unit trips; and management meeting. Of the eight areas inspected, no violations or deviations were identified. The licensee has had several problems during this report period in which the resident inspector has expressed his concerns. Some of these are the personnel error resulting in a reactor scram, a missed Technical specification surveillance and a problem not identifying degraded equipment. Several of these items are still being investigated. The licensee started a planned 15 week outage on Unit 1 which, to date, appears to be progressing well. Major items to be accomplished are drywell cooling modification, decontamination of the reactor recirculation piping, and snubber reduction.

INSPECTION ON APRIL 13-15, 1988 (88014; 88013): ROUTINE CLOSEOUT INSPECTION of licensee action on previously identified items (92701). No violation or deviations were identified.

INSPECTION ON MARCH 2-10, 18, 24, 1988 (88005;88004): ROUTINE, ANNOUNCED inspection of: (1) the chemistry program, including

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* LASALLE 2 *

INSPECTION SUMMARY

procedures, organization, and training; (2) reactor 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.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ON MARCH 9, 1988 THE UNIT RECEIVED A DUAL RECIRC PUMP TRIP WHICH RESULTED IN CORE POWER OSCILLATIONS. AN AIT WAS DISPATCHED TO FOLLOWUP ON THIS EVENT. THE DETAILS WILL BE CONTINUED IN INSPECTION REPORT 373/88008; 374/88008

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT OPERATING AT FULL POWER.

LAST IE SITE INSPECTION DATE: 04/15/88

INSPECTION REPORT NO: 88013

REPORTS FROM LICENSEE

| ===== | | | |
|--------|------------------|-------------------|--|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| 88-04 | 032188 | 042088 | MISSED TECHNICAL SPECIFICATION SURVEILLANCE DUE TO PERSONNEL ERROR |
| ===== | | | |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>19,679.0</u> |
| 13. Hours Reactor Critical | <u>411.3</u> | <u>2,595.3</u> | <u>15,439.3</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>405.0</u> | <u>2,589.0</u> | <u>15,151.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,025,916</u> | <u>8,077,664</u> | <u>46,974,045</u> |
| 18. Gross Elec Ener (MWH) | <u>325,680</u> | <u>2,608,230</u> | <u>15,307,640</u> |
| 19. Net Elec Ener (MWH) | <u>309,445</u> | <u>2,511,624</u> | <u>14,679,461</u> |
| 20. Unit Service Factor | <u>56.3</u> | <u>89.2</u> | <u>77.0</u> |
| 21. Unit Avail Factor | <u>56.3</u> | <u>89.2</u> | <u>77.0</u> |
| 22. Unit Cap Factor (MDC Net) | <u>40.8</u> | <u>82.0</u> | <u>70.7</u> |
| 23. Unit Cap Factor (DER Net) | <u>40.8</u> | <u>82.0</u> | <u>70.7</u> |
| 24. Unit Forced Outage Rate | <u>43.7</u> | <u>10.8</u> | <u>5.1</u> |
| 25. Forced Outage Hours | <u>314.0</u> | <u>314.0</u> | <u>805.9</u> |

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

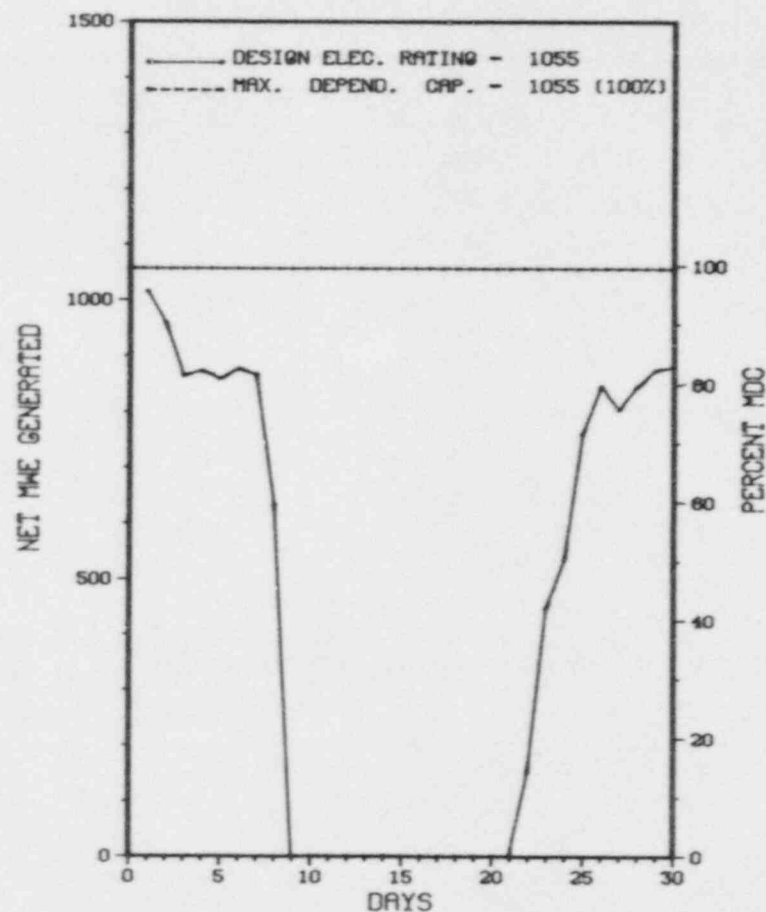
NONE

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

* LIMERICK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

LIMERICK 1



APRIL 1988

Report Period APR '988

UNIT SHUTDOWNS / REDUCTIONS

 * LIMERICK 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 2 | 04/09/88 | F | 314.0 | B | 3 | | HC | HTEXCH | MAINTENANCE OUTAGE FOR CLEANING OF CONDENSER TUBES. |

 * SUMMARY *

 LIMERICK 1 INCURRED 1 OUTAGE IN APRIL FOR CLEANING OF
 CONDENSER TUBES.

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

* LIMERICK 1 *

FACILITY DATA

Report Period APR 1988

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
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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 APR 1988

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

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X LIMERICK 1 X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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: 04/01/88 Outage + On-line Hrs: 719.0

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):

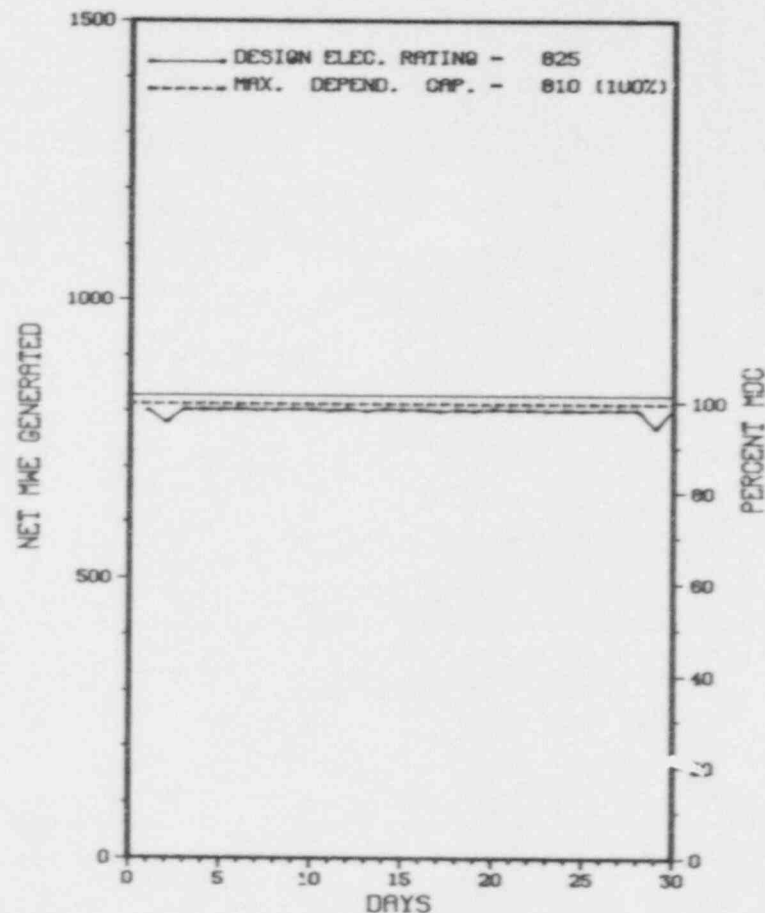
11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|--|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>135,659.6</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,886.9</u> | <u>108,739.5</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,873.8</u> | <u>105,532.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,886,660</u> | <u>7,514,991</u> | <u>241,875,325</u> |
| 18. Gross Elec Ener (MWH) | <u>592,360</u> | <u>2,362,050</u> | <u>79,250,780</u> |
| 19. Net Elec Ener (MWH) | <u>573,079</u> | <u>2,284,618</u> | <u>75,759,567</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>99.0</u> | <u>77.8</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>99.0</u> | <u>77.8</u> |
| 22. Unit Cap Factor (MDC Net) | <u>98.4</u> | <u>97.2</u> | <u>70.5*</u> |
| 23. Unit Cap Factor (DER Net) | <u>96.6</u> | <u>95.4</u> | <u>68.7*</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>1.0</u> | <u>7.5</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>29.2</u> | <u>7,739.8</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | | | |
| <u>REFUELING OUTAGE - 10/15/88 - 8 WEEK DURATION.</u> | | | |

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

 * MAINE YANKEE *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 MAINE YANKEE



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * MAINE YANKEE *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| LR TO | 04/29/88 | F | 0.0 | B | 5 | | EA | ELECON | REDUCED POWER DUE TO A MALFUNCTION ON A TRANSMISSION LINE. UTILIZED DOWN TIME TO PERFORM TURBINE VALVE AND EXCESS FLOW CHECK VALVE TESTING. LINE PROBLEM CORRECTED AND POWER RESTORED. |

 * SUMMARY *

 MAINE YANKEE INCURRED 1 POWER REDUCTION IN APRIL 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) |

* MAINE YANKEE *

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

Report Period APR 1988

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

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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 APR 1988

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

* MAINE YANKEE *

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

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

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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): 1129

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

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

11. Reasons for Restrictions, If Any: _____
NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>56,231.0</u> |
| 13. Hours Reactor Critical | <u>702.6</u> | <u>2,848.5</u> | <u>39,712.9</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>700.5</u> | <u>2,840.5</u> | <u>39,184.1</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,314,604</u> | <u>2,390,223</u> | <u>114,458,640</u> |
| 18. Gross Elec Ener (MWH) | <u>806,837</u> | <u>3,262,504</u> | <u>39,658,081</u> |
| 19. Net Elec Ener (MWH) | <u>778,201</u> | <u>3,145,944</u> | <u>37,811,442</u> |
| 20. Unit Service Factor | <u>97.4</u> | <u>97.8</u> | <u>69.7</u> |
| 21. Unit Avail Factor | <u>97.4</u> | <u>97.8</u> | <u>69.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>95.9</u> | <u>96.0</u> | <u>59.6</u> |
| 23. Unit Cap Factor (DER Net) | <u>91.7</u> | <u>91.8</u> | <u>57.0</u> |
| 24. Unit Forced Outage Rate | <u>2.6</u> | <u>2.2</u> | <u>13.4</u> |
| 25. Forced Outage Hours | <u>18.5</u> | <u>62.5</u> | <u>6,085.2</u> |

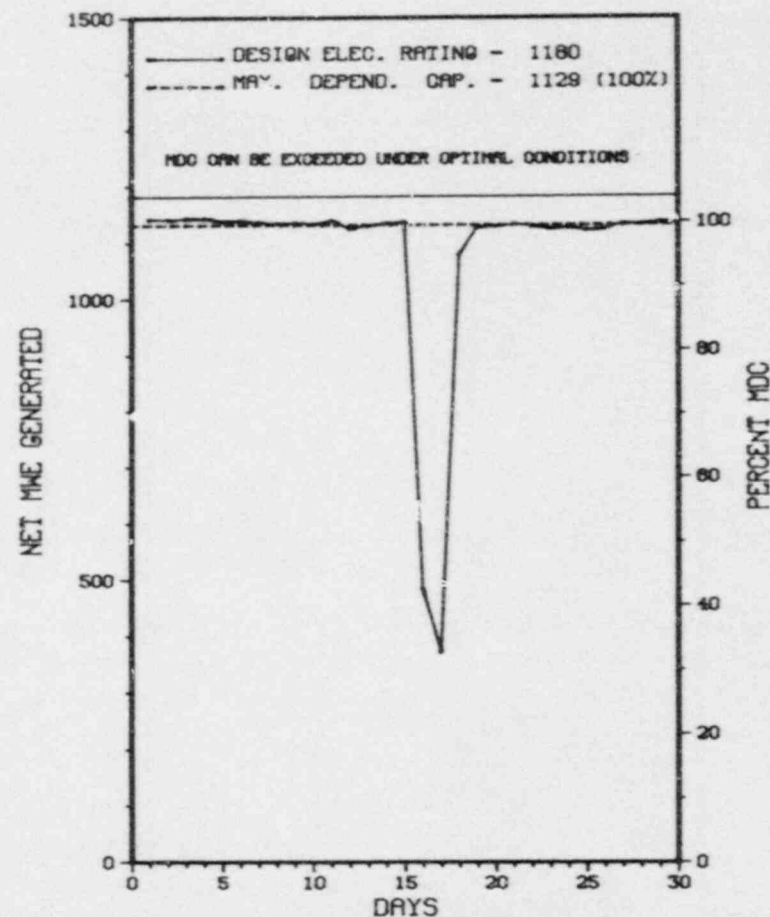
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - OCTOBER 14, 1988, 10 WEEK DURATION

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

* MCGUIRE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * MCGUIRE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 18-P | 04/12/88 | F | 0.0 | A | 5 | | HB | VALVEX | STEAM DRAIN VALVE GROUND CAUSED ALL HEATER BLEED STEAM & STEAM DRAIN VALVES TO CLOSE. |
| 3 | 04/16/88 | F | 18.5 | A | 1 | | HH | VALVEX | FAILURE OF CARD IN CONTROL CABINET CAUSED FEED REG. VALVE TO CLOSE. |
| 19-P | 04/17/88 | S | 0.0 | F | 5 | | ZZ | ZZZZZZ | POWER HOLD PER DISPATCHER. |
| 20-P | 04/18/88 | S | 0.0 | B | 5 | | IE | INSTRU | NUCLEAR INSTRUMENTATION CALIBRATION. |

 * SUMMARY *

 MCGUIRE 1 INCURRED 1 OUTAGE AND 3 POWER REDUCTIONS IN APRIL
 FOR REASONS STATED ABOVE.

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

* MCGUIRE 1 *

FACILITY A

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NORTH CAROLINA

COUNTY.....MECKLENBURG

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...17 MI N OF
CHARLOTTE, NC

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...AUGUST 8, 1981

DATE ELEC ENER 1ST GENER...SEPTEMBER 12, 1981

DATE COMMERCIAL OPERATE...DECEMBER 1, 1981

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...LAKE NORMAN

ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DUKE POWER

CORPORATE ADDRESS.....422 SOUTH CHURCH STREET
CHARLOTTE, NORTH CAROLINA 28242

CONTRACTOR
ARCHITECT/ENGINEER.....DUKE POWER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....DUKE POWER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE....II

IE RESIDENT INSPECTOR.....W. ORDERS

LICENSING PROJ MANAGER.....D. HOOD
DOCKET NUMBER.....50-369

LICENSE & DATE ISSUANCE...NPF-9, JULY 8, 1981

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UNCC STATION,
CHARLOTTE, NC 28223

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

INSPECTION SUMMARY

+ INSPECTION MARCH 7-11 (88-06): THIS WAS A ROUTINE, UNANNOUNCED INSPECTION IN THE AREAS OF ORGANIZATION AND QUALIFICATIONS, EXTERNAL EXPOSURE CONTROL AND DOSIMETRY, INTERNAL EXPOSURE CONTROL AND ASSESSMENT, CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, LICENSEE'S PROGRAM FOR MAINTAINING EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA), SOLID WASTES, AND TRANSPORTATION. ONE VIOLATION WAS IDENTIFIED INVOLVING FAILURE TO BARRICADE AND POST A HIGH RADIATION AREA AND FAILURE OF AN INDIVIDUAL ENTERING THE AREA TO HAVE THE PROPER RADIATION MONITORING DEVICE.

INSPECTION MARCH 14-18 (88-08): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF SEISMIC MONITORING, FIRE PROTECTION/PREVENTION AND FOLLOWUP OF LICENSEE IDENTIFIED LICENSEE EVENT REPORTS (LER'S) 50-369/87-34 AND 50-370/87-18-01. NO VIOLATIONS OR DEVIATION WERE IDENTIFIED.

INSPECTION MARCH 29 - APRIL 1 (88-10): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED THE AREAS OF THE SNUBBER SURVEILLANCE PROGRAM AND FOLLOW-UP ON A LICENSEE IDENTIFIED ITEM (LER). IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, TECHNICAL SPECIFICATION (TS) 6.8.1, ON DECEMBER 28, 1987 AN ERROR ON A PLANT ELECTRICAL DRAWING LED TO AN ACTUATION OF THE REACTOR PROTECTION SYSTEM, CAUSING A REACTOR TRIP. WHILE PERFORMING MONTHLY SURVEILLANCE TEST, PT/1/A/4601/02, PROTECTIVE SYSTEM CHANNEL 2 FUNCTIONAL TEST, A DRAWING ERROR ON SCHEMATIC DIAGRAM MCM 1399.03-0368 001 CAUSED LICENSEE PERSONNEL CONDUCTING THE TEST ON CHANNEL 2 OF NARROW RANGE STEAM GENERATOR LEVEL INSTRUMENTATION TO MAKE AN ADJUSTMENT IN CHANNEL 4 WHICH TOGETHER WITH THE EXISTING SIGNAL IN CHANNEL 2 CAUSED THE REACTOR TRIP. ALSO, ON DECEMBER 28, 1987 LICENSEE PERSONNEL FAILED TO FOLLOW A PROCEDURE STEP CAUSING AN ACTUATION OF THE REACTOR PROTECTION SYSTEM. WHILE PERFORMING PERIODIC TEST PT/0/A/4600/14C, NUCLEAR INSTRUMENTATION SYSTEM SOURCE RANGE FUNCTIONAL TEST, LICENSEE PERSONNEL ELECTED TO MANIPULATE A TEST SWITCH IN THE SOLID STATE PROTECTION SYSTEM WITHOUT MEETING THE CONDITIONS FOR DOING SO AS SPECIFIED IN THE PROCEDURE. THIS RESULTED IN A REACTOR TRIP.
(8704 4)

CONTRARY TO TS 6.8.1.A, MCGUIRE NUCLEAR STATION PROCEDURE IP/0/A/3061/08, WATER ADDITION AND EQUALIZING CHARGE FOR VITAL BATTERIES, STEP 10.4.3., AND MCGUIRE NUCLEAR STATION PROCEDURE OP/1/A/6200/01 ENCLOSURE 4.7: (1) PROCEDURE IP/0/A/3061/08 WAS NOT PROPERLY IMPLEMENTED IN THAT AN OUTPUT VOLTAGE OF APPROXIMATELY 148 VDC RATHER THAN THE REQUIRED 141.0 VDC WAS BEING USED ON FEBRUARY 10, 1988, WHEN CONDUCTING AN EQUALIZING CHARGE ON VITAL BATTERY EVCB. INSTRUMENT AND ELECTRICAL (IAE) TECHNICIANS AND ENGINEERS WERE AWARE OF THE PROCEDURAL REQUIREMENT TO ESTABLISH 141.0 VDC BUT CHOSE TO ESTABLISH A HIGHER VOLTAGE WITHOUT MAKING THE REQUIRED CHANGE TO THE PROCEDURE. (2) THE PROCEDURE FOR REMOVING THE CATION BED DEMINERALIZER FROM SERVICE, OP/1/A/6200/01 CHEMICAL AND VOLUME CONTROL SYSTEM, WAS NOT PROPERLY MAINTAINED IN THAT STEPS WERE CHANGED DURING A REVISION LEADING TO OVERPRESSURIZATION OF THE SYSTEM. THIS OVERPRESSURIZATION ON FEBRUARY 3, 1988, LED TO THE RUPTURE OF THE DIAPHRAM ON VALVE 1NV-474 AND A CONTAMINATED SPILL.
(8800 4)

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: MARCH 29 - APRIL 1, 1988 +

INSPECTION REPORT NO: 50-369/88-10 +

Report Period APR 1988

REPORTS FROM LICENSEE

* MCGUIRE 1 *

```
=====
NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
88-003    03/09/88    04/08/88    TRAIN B OF THE CCS WAS INOPERABLE DUE TO A NUCLEAR SERVICE WATER SYSTEM VALVE BEING IN A
          03/09/88    04/08/88    NONCONSERV. POSITION LOOSE TRVL S
88-004    03/09/88    04/08/88    UNIT 1 AND 2 ENTERED TS 3.0.3 WHEN EVCB VITAL BATTERY CHARGER WAS DENEERGIZED DUE TO UNKNOWN
          03/23/88    04/22/88    REASONS EVCA BATTERY WAS INOPERABLE
88-005
=====
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1. Docket: 50-370 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. A. REAVIS EXT (704) 373-7567

4. Licensed Thermal Power (MWh): 3411

5. Nameplate Rating (Gross MWe): 1450 X .9 = 1305

6. Design Electrical Rating (Net MWe): 1180

7. Maximum Dependable Capacity (Gross MWe): 1225

8. Maximum Dependable Capacity (Net MWe): 1129

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

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

11. Reasons for Restrictions, If Any: _____

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|-------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>36,527.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,885.1</u> | <u>27,331.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,880.2</u> | <u>26,707.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,446,326</u> | <u>9,722,758</u> | <u>87,968,362</u> |
| 18. Gross Elec Ener (MWH) | <u>854,124</u> | <u>3,397,998</u> | <u>30,473,226</u> |
| 19. Net Elec Ener (MWH) | <u>824,271</u> | <u>3,277,382</u> | <u>29,213,394</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>99.2</u> | <u>73.1</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>99.2</u> | <u>73.1</u> |
| 22. Unit Cap Factor (MDC Net) | <u>101.5</u> | <u>100.0</u> | <u>70.8</u> |
| 23. Unit Cap Factor (DER Net) | <u>97.2</u> | <u>95.7</u> | <u>67.8</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.8</u> | <u>11.3</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>22.8</u> | <u>3,417.3</u> |

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

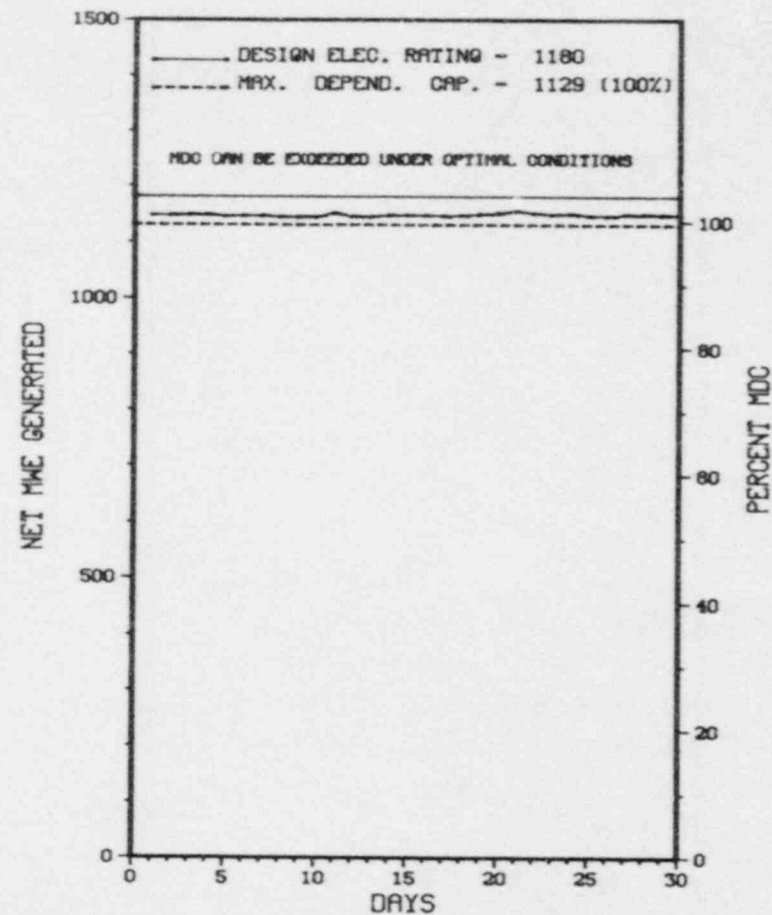
REFUELING - MAY 27, 1988 - 9 WEEK DURATION.

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

* MCGUIRE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * MCGUIRE 2 *

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

NONE

 * SUMMARY *

MCGUIRE 2 OPERATED ROUTINELY IN APRIL WITH NO OUTAGES OR
 SIGNIFICANT POWER REDUCTIONS.

| Type | Reason | Method | System & Component |
|----------|--------------------------|----------------|-------------------------|
| F-Forced | A-Equip Failure | 1-Manual | Exhibit F & G |
| 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NORTH CAROLINA

COUNTY.....MECKLENBURG

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...17 MI N OF
CHARLOTTE, NC

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 8, 1983

DATE ELEC ENER 1ST GENER...MAY 23, 1983

DATE COMMERCIAL OPERATE...MARCH 1, 1984

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...LAKE NORMAN

ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DUKE POWER

CORPORATE ADDRESS.....POWER BLDG., BOX 2178
CHARLOTTE, NORTH CAROLINA 28201

CONTRACTOR
ARCHITECT/ENGINEER.....DUKE POWER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....DUKE POWER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....N. ORDERS

LICENSING PROJ MANAGER.....D. HOOD
DOCKET NUMBER.....50-370

LICENSE & DATE ISSUANCE...NPF-17, MAY 27, 1983

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ATKINS LIBRARY
UNIVERSITY OF NORTH CAROLINA - CHARLOTTE
UNCC STATION,
CHARLOTTE, NC 28223

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION MARCH 7-11 (88-06): THIS WAS A ROUTINE, UNANNOUNCED INSPECTION IN THE AREAS OF ORGANIZATION AND QUALIFICATIONS, EXTERNAL EXPOSURE CONTROL AND DOSIMETRY, INTERNAL EXPOSURE CONTROL AND ASSESSMENT, CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, LICENSEE'S PROGRAM FOR MAINTAINING EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA), SOLID WASTES, AND TRANSPORTATION. ONE VIOLATION WAS IDENTIFIED INVOLVING FAILURE TO BARRICADE AND POST A HIGH RADIATION AREA AND FAILURE OF AN INDIVIDUAL ENTERING THE AREA TO HAVE THE PROPER RADIATION MONITORING DEVICE.

INSPECTION MARCH 14-18 (88-08): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF SEISMIC MONITORING, FIRE PROTECTION/PREVENTION AND FOLLOWUP OF LICENSEE IDENTIFIED LICENSEE EVENT REPORTS (LER'S) 50-369/87-34 AND 50-370/87-18-01. NO VIOLATIONS OR DEVIATION WERE IDENTIFIED.

INSPECTION MARCH 29 - APRIL 1 (88-10): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED THE AREAS OF THE SNUBBER SURVEILLANCE PROGRAM AND FOLLOW-UP ON A LICENSEE IDENTIFIED ITEM (LER). IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

Report Period APR 1988

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

* MCGUIRE 2 *

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: MARCH 29 - APRIL 1, 1988 +

INSPECTION REPORT NO: 50-370/88-10 +

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

| ===== | | | |
|--------|------------------|-------------------|---------|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| NONE. | | | |
| ===== | | | |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: G. NEWBURGH (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>719.0</u> | <u>2,903.0</u> | <u>152,711.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,873.8</u> | <u>119,200.1</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>3,283.3</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,864.6</u> | <u>116,057.1</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>277.4</u> |
| 17. Gross Therm Ener (MWH) | <u>1,402,583</u> | <u>5,672,056</u> | <u>215,878,151</u> |
| 18. Gross Elec Ener (MWH) | <u>479,000</u> | <u>1,943,400</u> | <u>72,719,996</u> |
| 19. Net Elec Ener (MWH) | <u>458,365</u> | <u>1,859,491</u> | <u>69,376,952</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>98.7</u> | <u>76.0</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>98.7</u> | <u>76.2</u> |
| 22. Unit Cap Factor (MDC Net) | <u>97.5</u> | <u>97.9</u> | <u>69.5</u> |
| 23. Unit Cap Factor (DER Net) | <u>96.6</u> | <u>97.1</u> | <u>68.8</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>1.3</u> | <u>11.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>38.4</u> | <u>6,344.9</u> |

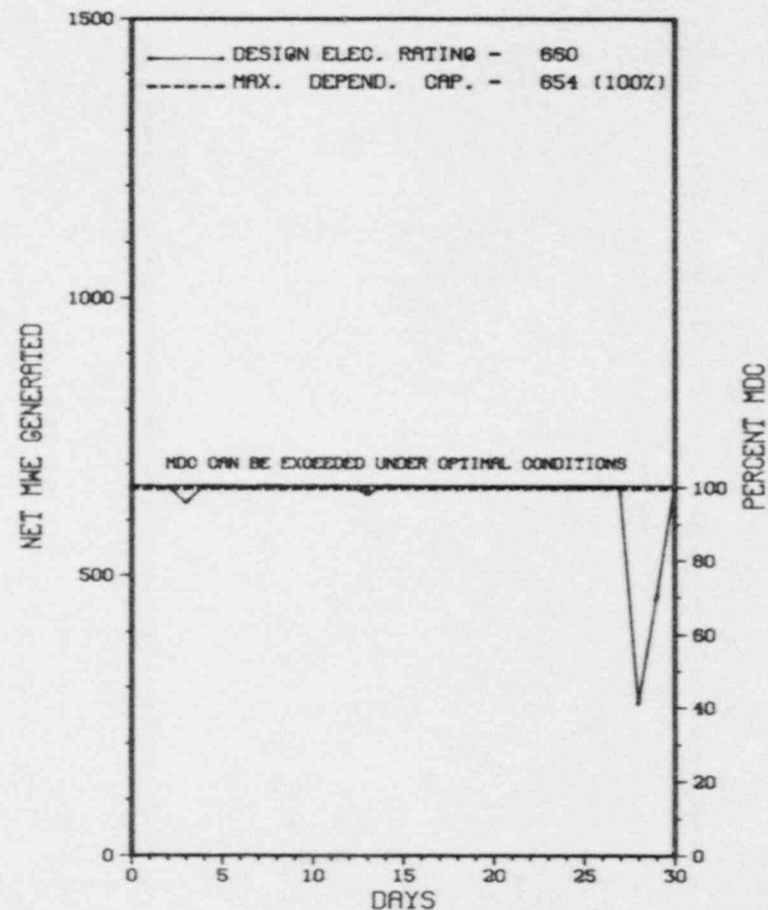
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

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

* MILLSTONE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * MILLSTONE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-02 | 04/28/88 | S | 0.0 | H | 5 | | | | POWER REDUCTION TO FIND AND REPAIR STEAM LEAKS. |

 * SUMMARY *

 MILLSTONE 1 INCURRED 1 POWER REDUCTION IN APRIL TO FIND AND REPAIR STEAM LEAKS.

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

* MILLSTONE 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CONNECTICUT
COUNTY.....NEW LONDON
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI SW OF
NEW LONDON, CONN
TYPE OF REACTOR.....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

10 CFR 50.72(B)(2)(III) REQUIRES THAT THE NRC BE NOTIFIED WITHIN FOUR HOURS OF ANY EVENT OR CONDITION THAT ALONE COULD HAVE PREVENTED THE FULFILLMENT OF THE SAFETY FUNCTION OF SYSTEMS NEEDED TO SAFELY SHUT DOWN THE REACTOR OR MITIGATE THE CONSEQUENCES OF AN ACCIDENT. CONTRARY TO THE ABOVE, THE LICENSEE FAILED TO NOTIFY THE NRC THAT 8 OUT OF 12 CHECK VALVES IN THE MILLSTONE 1 NITROGEN SUPPLY SYSTEM TO THE AUTOMATIC PRESSURE RELIEF (APR) SYSTEM VALVES FAILED TO PASS THE REQUIRED LEAK TEST CONDUCTED ON NOVEMBER 2, 1985.
(8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

Report Period APR 1988

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

* MILLSTONE 1 *

OTHER ITEMS

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

=====

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

NO INPUT PROVIDED.

=====

1. Docket: 50-336 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: G. NERON (203) 447-1791 X4417

4. Licensed Thermal Power (MWt): 2700

5. Nameplate Rating (Gross MWe): 1011 X 0.9 = 910

6. Design Electrical Rating (Net MWe): 870

7. Maximum Dependable Capacity (Gross MWe): 889

8. Maximum Dependable Capacity (Net MWe): 857

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

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

11. Reasons for Restrictions, If Any: NONE

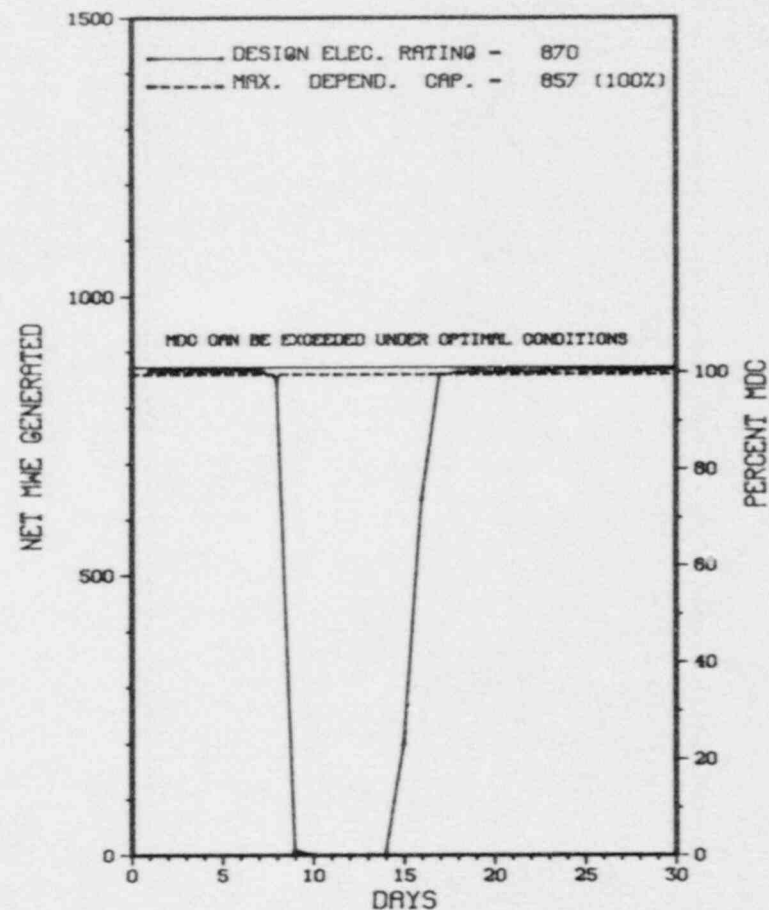
| | MONTH | YEAR | CUMULATIVE |
|--|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>108,239.0</u> |
| 13. Hours Reactor Critical | <u>597.2</u> | <u>1,633.7</u> | <u>77,897.7</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>2,166.9</u> |
| 15. Hrs Generator On-Line | <u>580.2</u> | <u>1,539.0</u> | <u>74,790.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>468.2</u> |
| 17. Gross Therm Ener (MWH) | <u>1,494,187</u> | <u>3,940,635</u> | <u>191,260,626</u> |
| 18. Gross Elec Ener (MWH) | <u>493,199</u> | <u>1,297,999</u> | <u>62,160,572</u> |
| 19. Net Elec Ener (MWH) | <u>473,449</u> | <u>1,240,330</u> | <u>59,616,587</u> |
| 20. Unit Service Factor | <u>80.7</u> | <u>53.0</u> | <u>69.1</u> |
| 21. Unit Avail Factor | <u>80.7</u> | <u>53.0</u> | <u>69.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>76.8</u> | <u>49.9</u> | <u>65.0*</u> |
| 23. Unit Cap Factor (DER Net) | <u>75.7</u> | <u>49.1</u> | <u>64.0*</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>14.9</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>11,785.4</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |

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

* MILLSTONE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 2



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* MILLSTONE 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-01 | 04/08/88 | S | 138.8 | B | 1 | 88-08 | AA | CL,CCL | INITIATED REACTOR POWER REDUCTION FROM 100% POWER FOR PLANNED MAINTENANCE OUTAGE; CEA NO. 22 DROPPED AND POWER WAS REDUCED TO 70%; CONTINUED REACTOR SHUTDOWN - UNABLE TO RECOVER THE DROPPED CEA; CEA NO. 4 ALSO DROPPED BEFORE REACTOR WAS SUB-CRITICAL; THE DROPPING OF CEA'S NO. 4 AND NO. 22 WAS DETERMINED TO HAVE BEEN CAUSED BY MAJOR LOSS OF UPPER GRIPPER COIL RESISTANCE DUE TO OVERHEATING; IN ADDITION, A HIGH RESISTANCE OF THE CEA NO. 5 UPPER GRIPPER COIL WAS FOUND, AND WAS DETERMINED TO HAVE BEEN CAUSED BY A LOOSE COIL STACK CONNECTION; OVERHEATING WAS CAUSED BY THE REDUCTION OF THE CEDM COOLER EFFICIENCY DUE TO BORON CLOGGING OF THE FAN INTAKES; NEW CEDM COIL STACKS WERE INSTALLED FOR CEA'S NO. 4, 5, AND 22; CEDM COOLER INTAKES WERE CLEANED; DETERM. OF BORON SOURCE UNDER INVESTIGATION. |

* SUMMARY *

MILLSTONE 2 INCURRED 1 OUTAGE IN APRIL 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) |

* MILLSTONE 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CONNECTICUT

COUNTY.....NEW LONDON

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI SW OF
NEW LONDON, CONN

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...OCTOBER 17, 1975

DATE ELEC ENER 1ST GENER...NOVEMBER 9, 1975

DATE COMMERCIAL OPERATE...DECEMBER 26, 1975

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...LONG ISLAND SOUND

ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NORTHEAST NUCLEAR ENERGY

CORPORATE ADDRESS.....P.O. BOX 270
HARTFORD, CONNECTICUT 06101

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....W. RAYMOND

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

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

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

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

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

MILLSTONE UNIE 2 TS 6.2.2A REQUIRES THAT ADMINISTRATIVE PROCEDURES BE DEVELOPED AND IMPLEMENTED TO LIMIT WORKING HOURS OF UNIT STAFF WHO PERFORM SAFETY-RELATED FUNCTIONS. PLANT PROCEDURE ACP 1.19/ND0 1.09, "OVERTIME CONTROLS FOR PERSONNEL WORKING AT THE OPERATING NUCLEAR STATION," REV 1, DEVELOPED PURSUANT TO THE ABOVE THE THREE MILE ISLAND ACTION PLAN, REQUIRES THAT AN INDIVIDUAL NOT BE PERMITTED TO WORK MORE THAN 24 HOURS IN ANY 48 HOUR PERIOD OR MORE THAN 72 HOURS IN ANY WORK WEEK, UNLESS SUCH OVERTIME USE IS AUTHENTICATED AND CONTROLLED BY STATION MANAGEMENT. CONTRARY TO THE ABOVE, DURING ONE WEEK WORK INTERVALS IN THE PERIOD FROM JANUARY 26, 1987 TO FEBRUARY 15, 1987 SIX INDIVIDUALS WORKED MORE THAN 72 HOURS IN A WORK WEEK WITHOUT THE REQUIRED MANAGEMENT APPROVAL, AND ONE INDIVIDUAL WORKED MORE THAN 72 HOURS IN A WEEK AND MORE THAN 24 HOURS IN A 48 HOUR PERIOD WITHOUT THE REQUIRED MANAGEMENT APPROVAL.

(8702 5)

OTHER ITEMS

Report Period APR 1988

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: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>17,735.0</u> |
| 13. Hours Reactor Critical | <u>405.3</u> | <u>1,764.0</u> | <u>13,527.5</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>20.2</u> | <u>20.2</u> | <u>246.2</u> |
| 15. Hrs Generator On-Line | <u>380.4</u> | <u>1,572.9</u> | <u>13,163.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,285,473</u> | <u>5,060,904</u> | <u>47,330,335</u> |
| 18. Gross Elec Ener (MWH) | <u>417,168</u> | <u>1,761,565</u> | <u>14,970,835</u> |
| 19. Net Elec Ener (MWH) | <u>389,431</u> | <u>1,658,642</u> | <u>14,262,719</u> |
| 20. Unit Service Factor | <u>52.9</u> | <u>54.2</u> | <u>74.2</u> |
| 21. Unit Avail Factor | <u>52.9</u> | <u>54.2</u> | <u>74.2</u> |
| 22. Unit Cap Factor (MDC Net) | <u>47.5</u> | <u>50.0</u> | <u>70.4</u> |
| 23. Unit Cap Factor (DER Net) | <u>47.0</u> | <u>49.5</u> | <u>69.7</u> |
| 24. Unit Forced Outage Rate | <u>47.1</u> | <u>19.3</u> | <u>9.9</u> |
| 25. Forced Outage Hours | <u>338.6</u> | <u>375.7</u> | <u>1,450.2</u> |

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

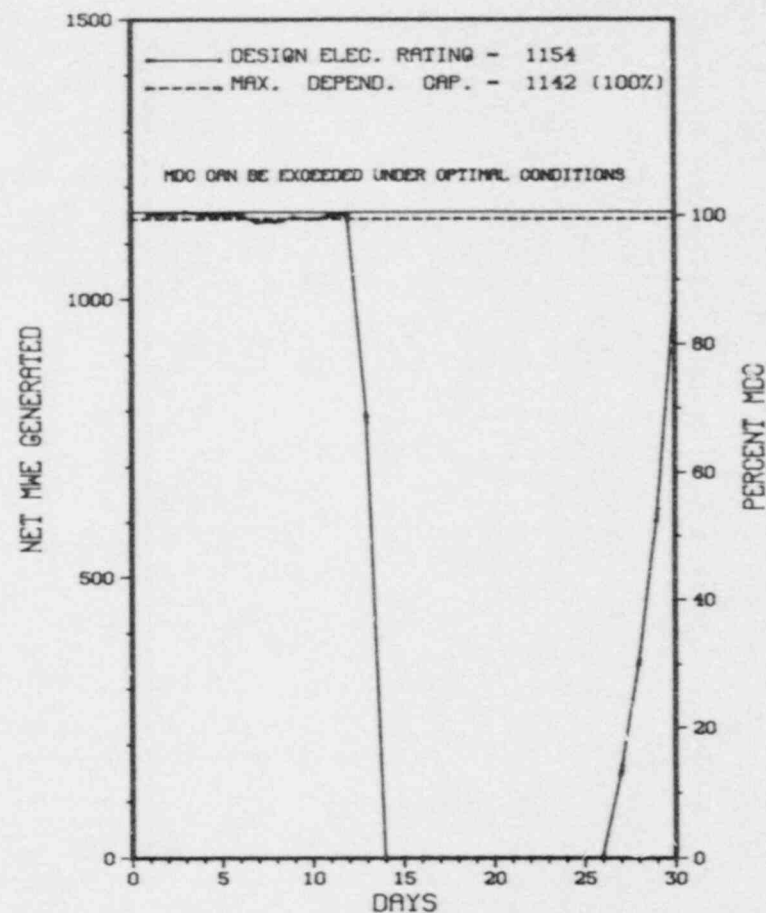
NONE

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

* MILLSTONE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* MILLSTONE 3 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-03 | 04/13/88 | F | 330.4 | H | 3 | 88-014-00 | KE | SCN | TURBINE TRIP DUE TO LOW CONDENSOR VACUUM CAUSED BY LOSS OF BOTH CIRCULATING WATER PUMPS SUPPLYING THE 'A' CONDENSOR BAY. THE CIRCULATING WATER PUMPS TRIPPED DUE TO A HIGH DIFFERENTIAL PRESSURE ACROSS THE INTAKE TRAVELING SCREENS. THE ROOT CAUSE WAS BLOCKAGE OF THE INTAKE STRUCTURE SCREENS DUE TO ENVIRONMENTAL CONDITIONS. IMMEDIATE CORRECTIVE ACTION WAS PLACING ALL SCREEN WASH PUMPS IN SERVICE (ONE PUMP WAS OUT OF SERVICE). SEE LER FOR SUBSEQUENT CORRECTIVE ACTION. |
| 88-04 | 04/28/88 | F | 8.2 | A | 2 | | | | TURBINE OFF LINE TO REPAIR STEAM LEAK ON DRAIN PIPING. |

* SUMMARY *

MILLSTONE 3 INCURRED 2 OUTAGES IN APRIL 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) |

* MILLSTONE 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CONNECTICUT
COUNTY.....NEW LONDON
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...3.2 MI WSW OF
NEW LONDON CT.
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JANUARY 23, 1986
DATE ELEC ENER 1ST GENER...FEBRUARY 12, 1986
DATE COMMERCIAL OPERATE....APRIL 23, 1986
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...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

Report Period APR 1988

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

* MILLSTONE 3 *

PLANT STATUS:

INFO. NOT SUPPLIED BY REGION

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

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

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

=====

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

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: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>147,576.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>115,140.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>940.7</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,903.0</u> | <u>112,916.6</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,194,835</u> | <u>4,824,008</u> | <u>180,502,082</u> |
| 18. Gross Elec Ener (MWH) | <u>403,946</u> | <u>1,635,133</u> | <u>58,515,189</u> |
| 19. Net Elec Ener (MWH) | <u>388,910</u> | <u>1,574,370</u> | <u>55,945,488</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>76.5</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>100.0</u> | <u>76.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.9</u> | <u>101.2</u> | <u>70.7</u> |
| 23. Unit Cap Factor (DER Net) | <u>99.2</u> | <u>99.5</u> | <u>69.6</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>4.3</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>1,498.3</u> |

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

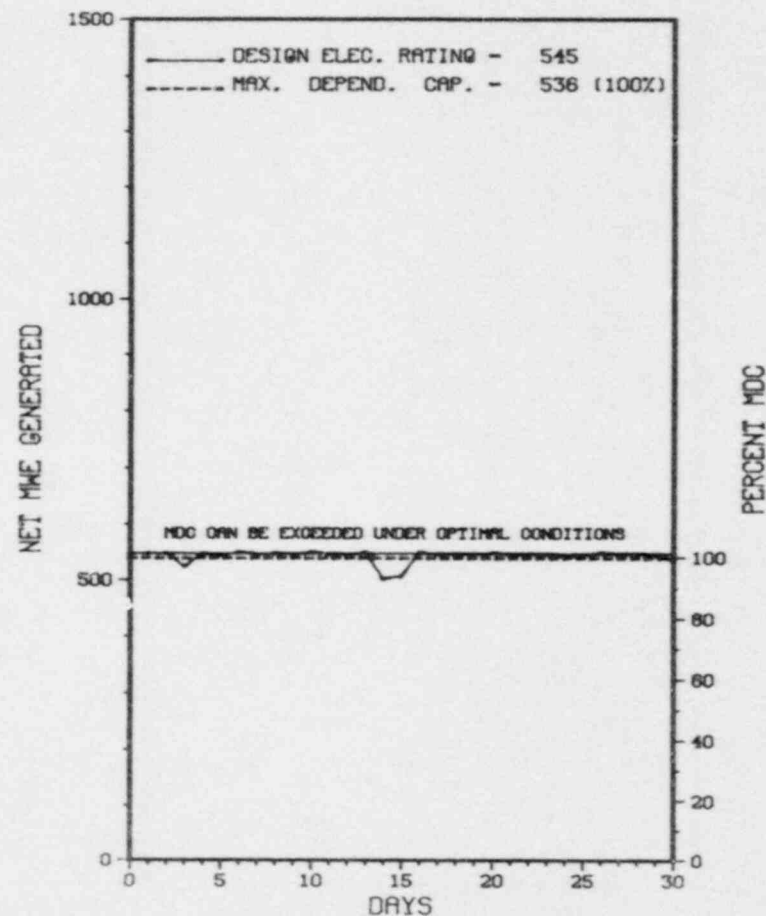
NONE

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

* MONTICELLO *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MONTICELLO



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* MONTICELLO *

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

NONE

* SUMMARY *

MONTICELLO OPERATED ROUTINELY IN APRIL WITH NO OUTAGES
OR SIGNIFICANT POWER REDUCTIONS.

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

* MONTICELLO *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MINNESOTA

COUNTY.....WRIGHT

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...30 MI NW OF
MINNEAPOLIS, MINN

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...DECEMBER 10, 1970

DATE ELEC ENER 1ST GENER...MARCH 5, 1971

DATE COMMERCIAL OPERATE...JUNE 30, 1971

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER...MISSISSIPPI RIVER

ELECTRIC RELIABILITY
COUNCIL.....MID-CONTINENT AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NORTHERN STATES POWER

CORPORATE ADDRESS.....414 NICOLLET MALL
MINNEAPOLIS, MINNESOTA 55401

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....P. HARTMAN

LICENSING PROJ MANAGER.....J. STEFANO
DOCKET NUMBER.....50-263

LICENSE & DATE ISSUANCE....DPR-22, JANUARY 9, 1981

PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY
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300 NICOLLET MALL
MINNEAPOLIS, MINNESOTA 55401

INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

10 CFR 50.49, PARAGRAPHS (F) AND (G) REQUIRE EQUIPMENT IMPORTANT TO SAFETY TO BE QUALIFIED BY TESTING AND ANALYSIS PRIOR TO THE EQ DEADLINE OF NOVEMBER 30, 1985. CONTRARY TO THE ABOVE, THE FOLLOWING EQUIPMENT WAS NOT QUALIFIED BY TEST AND/OR ANALYSIS FOR THEIR 1 STALLED CONDITIONS. IN ADDITION, APPROPRIATE MAINTENANCE ACTIVITIES WERE NOT SPECIFIED IN THE LICENSEE'S QUALIFICATION FILES AS NECESSARY TO MAINTAIN THE ENVIRONMENTAL QUALIFICATION (EQ) OF THE EQUIPMENT, AND THE LICENSEE COULD NOT PROVIDE EVIDENCE OF HAVING PERFORMED THESE ACTIVITIES. EQ REPORT 0910-111-FR-14 FOR LIMITORQUE OPERATORS STATES THAT THE AGING OF LUBRICANTS IS NOT A CONCERN IF REGULAR INSPECTION AND REPLACEMENT OF LUBRICANTS IS PERFORMED. LIMITORQUE PROCEDURE LC8 INDICATES THAT THE LUBRICANT IN THE LIMITORQUE MAIN GEAR CASE AND THE LIMIT SWITCH COMPARTMENT SHOULD BE INSPECTED AND CHANGED, IF NECESSARY, AT 18 MONTH INTERVALS AND 36 MONTH INTERVALS RESPECTIVELY. THIS PROCEDURE ALLOWS FOR EXTENDING THESE INTERVALS IF PREVIOUS INSPECTIONS HAVE NOT IDENTIFIED ANY DEGRADATION OF THE LUBRICANT. THE INSPECTORS OBSERVED THAT THE LUBRICANT IN LIMITORQUE MOTOR OPERATORS 2012 AND 2373 HAD NOT BEEN INSPECTED SINCE 1984, AND THAT THE LICENSEE COULD NOT PROVIDE EVIDENCE THAT PRIOR INSPECTIONS HAD BEEN PERFORMED TO IDENTIFY ANY DEGRADATION OF THE LUBRICANT. (50-263/87013-01(A)(DRS)) (B) EQ REPORT 0910-111-FR-33, PAGE 21 OF 42, PARAGRAPH 4.2.3, FOR RELIANCE MOTORS, REQUIRES LUBRICANTS TO BE EXAMINED ON A PERIODIC BASIS TO IDENTIFY ANY DEGRADATION AND REQUIRES PERIODIC MAINTENANCE PROCEDURES TO INCLUDE ACTIVITIES FOR SURVEILLANCE AND REPLACEMENT OF LUBRICANTS. THE INSPECTORS OBSERVED THAT THIS REQUIREMENT WAS NOT IDENTIFIED IN THE LICENSEE'S EQ MAINTENANCE OR PREVENTATIVE MAINTENANCE PROGRAMS, AND THAT

INSPECTION STATUS - (CONTINUED)

ENFORCEMENT SUMMARY

THERE WAS NO EVIDENCE THAT THE LICENSEE HAD PERFORMED SUCH SURVEILLANCE INSPECTIONS. (50-263/87013-01(B)(DRS)) (C) DURING EXAMINATION OF RHR PUMP MOTOR P-202B THE INSPECTORS OBSERVED THAT THE INSTALLED MOTOR LEAD JUNCTION BOX CONTAINED WATER AND SLUDGE, AND THAT THE CABLE AND CABLE SPLICES IN THE BOX WERE WET DUE TO CONDENSATION IN THE CONDUIT AND DRAINAGE INTO THE MOTOR LEAD JUNCTION BOX. THIS CONDITION WAS CONTRARY TO THE TESTED CONDITIONS AND INSTALLATION REQUIREMENTS. (50-263/87013-01(C)(DRS)). (D) MOBILUX EPO IS USED TO LUBRICATE THE MAIN GEAR CASE LIMITORQUE OPERATORS(50-263/87013-01(D)) (8701 4)

TECHNICAL SPECIFICATION 6.5, PLANT OPERATING PROCEDURES, STATES THAT DETAILED WRITTEN PROCEDURES, INCLUDING THE APPLICABLE CHECK-OFF LISTS AND INSTRUCTIONS, SHALL BE PREPARED AND FOLLOWED. CONTRARY TO THE ABOVE, DURING THE PERIOD OF DECEMBER 1, 1987 TO JANUARY 12, 1988 SEVERAL EXAMPLES OF FAILURE TO FOLLOW APPROVED PLANT PROCEDURES WERE IDENTIFIED. EACH EXAMPLE IS DISCUSSED BELOW: (A) DURING THE PERFORMANCE OF TEST PROCEDURE #0417-2, REVISION 0, "B" CGCS RECOMBINER REACTION CHAMBER OPERABILITY TEST AN OPERATOR FAILED TO PERFORM A SOAK OF THE CGCS RECOMBINATION REACTION CHAMBER IN ACCORDANCE WITH THE PROCEDURE. (B) DURING THE PERFORMANCE OF TEST PROCEDURE #0189-1, REVISION 12, EMERGENCY DIESEL GENERATOR AUTOMATIC FAST START INITIATION OPERATORS FAILED TO FOLLOW APPROVED METHODS OF INDEPENDENT VERIFICATION SPECIFIED IN 4 ACD (ADMINISTRATIVE CONTROL DOCUMENT)-04.07, REVISION 12, SECTION 6.16. (C) DURING THE PERFORMANCE OF TEST PROCEDURE #0036-1/0039-1, REVISION 10, ECCS EMERGENCY BUS UNDERVOLTAGE TEST-1/ECCS LOSS OF NORMAL AUXILIARY POWER TEST-1 OPERATORS FAILED TO FOLLOW APPROVED METHODS OF INDEPENDENT VERIFICATION SPECIFIED IN 4 ACD-04.07, REVISION 12, SECTION 6.16. (D) DURING PERFORMANCE OF TEST PROCEDURE NO.1025A, A RADIATION PROTECTION SPECIALIST FAILED TO FOLLOW AN APPROVED PROCEDURE BY TESTING A DIFFERENT RADIATION MONITOR THAN REQUIRED BY THE TEST PROCEDURE. THIS RESULTED IN ENGINEERED SAFETY FEATURE (ESF) ACTUATIONS. (E) DURING PERFORMANCE OF TEST PROCEDURE NO. 0067, A LICENSED OPERATOR FAILED TO FOLLOW AN APPROVED PROCEDURE STEP OF INSTALLING A JUMPER ON A SPECIFIED TERMINAL. THIS RESULTED IN AN ESF ACTUATION. (F) DURING PERFORMANCE OF THE MODIFICATION PREOPERATIONAL TEST PROCEDURE FOR RESIDUAL HEAT REMOVAL VALVE MO-2407, A LICENSED OPERATOR FAILED TO INSTALL A JUMPER ON THE PROPER TERMINAL AS REQUIRED. THE ERROR RESULTED FROM INSTALLATION BY WIRE IDENTIFICATION RATHER THAN TERMINAL VERIFICATION. THIS RESULTED IN ESF ACTUATIONS.

(8702 4)

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: 04/01/88

INSPECTION REPORT NO: 88005

Report Period APR 1988

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

* MONTICELLO *

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=====
NUMBER      DATE OF      DATE OF      SUBJECT
            EVENT       REPORT
-----
88-03      032988      042888      MISSED SURVEILLANCE OF EDG LOAD SEQUENCING DUE TO PERSONNEL ERROR
=====
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1. Docket: 50-220 O P E R A T I N G S T A T U S

2. Reporting Per iod: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: THOMAS W. ROMAN (315) 349-2422

4. Licensed Thermal Power (MWh): 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>719.0</u> | <u>2,903.0</u> | <u>162,143.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>.0</u> | <u>115,235.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,204.2</u> |
| 15. Hrs Generator On-Line | <u>.0</u> | <u>.0</u> | <u>112,102.6</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>20.2</u> |
| 17. Gross Therm Ener (MWH) | <u>0</u> | <u>0</u> | <u>188,473,049</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>0</u> | <u>62,473,071</u> |
| 19. Net Elec Ener (MWH) | <u>0</u> | <u>0</u> | <u>60,524,379</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>.0</u> | <u>69.1</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>.0</u> | <u>69.2</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>.0</u> | <u>61.2</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>.0</u> | <u>60.2</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>100.0</u> | <u>14.9</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>516.0</u> | <u>15,047.9</u> |

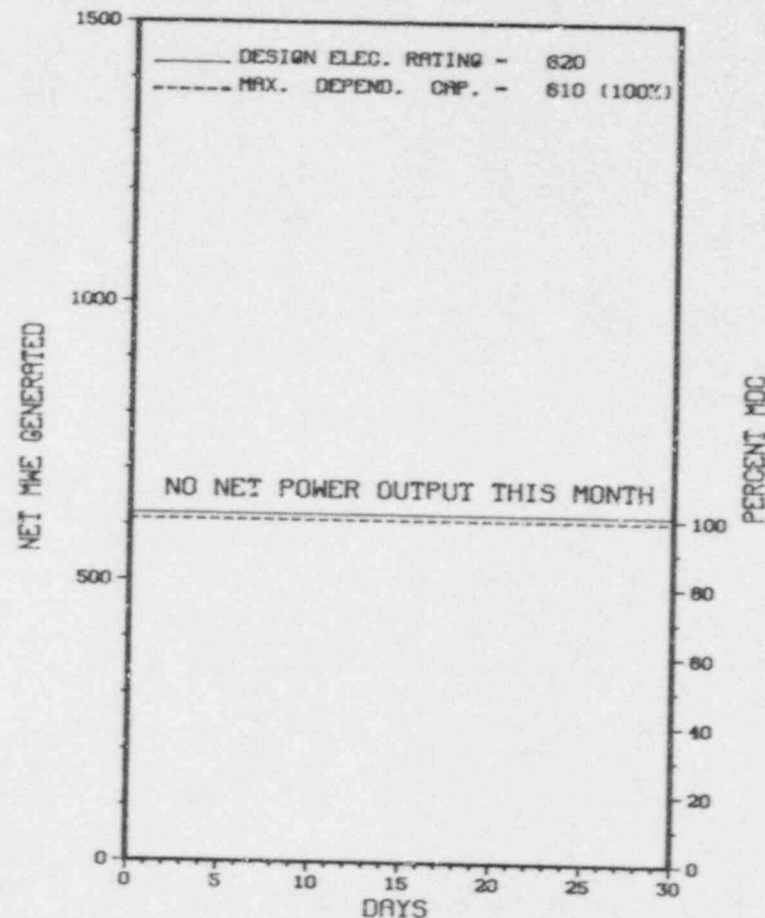
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

27. If Currently Shutdown Estimated Startup Date: 06/17/88

 * NINE MILE POINT 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NINE MILE POINT 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * NINE MILE POINT 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 02 | 01/22/88 | S | 719.0 | C | 4 | | | | THE DECISION WAS MADE TO START THE REFUEL OUTAGE SINCE THE PLANT WAS ALREADY SHUTDOWN DUE TO PROBLEMS WITH THE F.W. SYSTEM. |

 * SUMMARY *

 NINE MILE POINT 1 REMAINED SHUTDOWN IN APRIL 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) |

* NINE MILE POINT 1 *

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK

COUNTY.....OSWEGO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...8 MI NE OF
OSWEGO, NY

TYPE OF REACTOR....BWR

DATE INITIAL CRITICALITY...SEPTEMBER 5, 1969

DATE ELEC ENER 1ST GENER...NOVEMBER 9, 1969

DATE COMMERCIAL OPERATE...DECEMBER 1, 1969

CONDENSER COOLING METHOD...ONCE TH.

CONDENSER COOLING WATER...LAKE ONTARIO

ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NIAGARA MOHAWK POWER CORP.

CORPORATE ADDRESS.....300 ERIE BOULEVARD WEST
SYRACUSE, NEW YORK 13202

CONTRACTOR
ARCHITECT/ENGINEER.....NIAGARA MOHAWK POWER CORP.

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....S. HUDSON

LICENSING PROJ MANAGER.....R. BENEDICT
DOCKET NUMBER.....50-220

LICENSE & DATE ISSUANCE...DPR-63, DECEMBER 26, 1974

PUBLIC DOCUMENT ROOM.....STATE UNIVERSITY COLLEGE OF OSWEGO
PENFIELD LIBRARY - DOCUMENTS
OSWEGO, NY 13126
(315) 341-2323

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

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period APR 1988

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

* NINE MILE POINT 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

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

1. Docket: 50-410 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: E. TOMLINSON (315) 349-2761

4. Licensed Thermal Power (MWt): 3323

5. Nameplate Rating (Gross MWe): 1214

6. Design Electrical Rating (Net MWe): 1080

7. Maximum Dependable Capacity (Gross MWe): 1080

8. Maximum Dependable Capacity (Net MWe): 1080

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

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

11. Reasons for Restrictions, If Any:

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>1,208.0</u> | <u>1,208.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>1,023.4</u> | <u>1,023.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>991.0</u> | <u>991.0</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,287,430</u> | <u>3,180,789</u> | <u>3,180,789</u> |
| 18. Gross Elec Ener (MWH) | <u>772,200</u> | <u>987,840</u> | <u>987,840</u> |
| 19. Net Elec Ener (MWH) | <u>727,760</u> | <u>921,850</u> | <u>921,850</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>82.0</u> | <u>82.0</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>82.0</u> | <u>82.0</u> |
| 22. Unit Cap Factor (MDC Net) | <u>93.7</u> | <u>70.7</u> | <u>70.7</u> |
| 23. Unit Cap Factor (DER Net) | <u>93.7</u> | <u>70.7</u> | <u>70.7</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>18.0</u> | <u>18.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>217.0</u> | <u>217.0</u> |

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

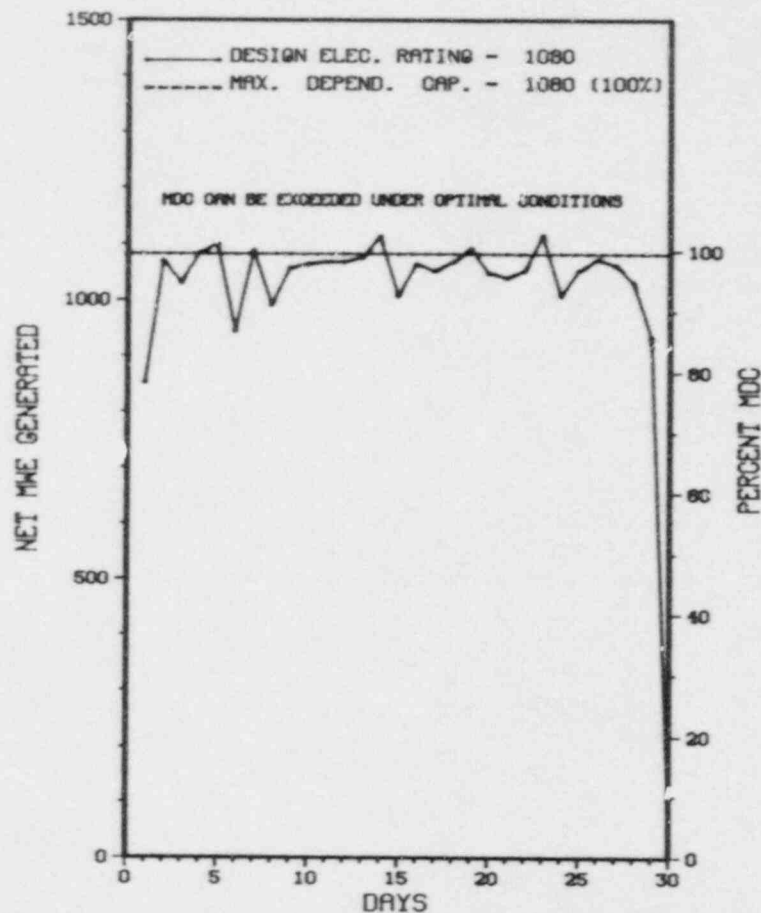
SURV. 5/2/88-21 DAYS, MAINT/SURV-9/88-48 DAY DURATION.

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

 * NINE MILE POINT 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NINE MILE POINT 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* NINE MILE POINT 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|------------------|---|
| 88-3 | 04/01/88 | F | 0.0 | A | 5 | | | REDUCED POWER BECAUSE OF LEAK IN MSR REHEATER DRAIN RECEIVER. RETURNED TO FULL POWER UPON COMPLETION OF CONTROL ROD SEQUENCE EXCHANGE. |
| 88-4 | 04/06/88 | F | 0.0 | F | 5 | 88-18 | | REDUCED POWER DUE TO MISSED SURVEILLANCE ON PRIMARY CONTAINMENT PENETRATION. RESUMED FULL POWER UPON SATISFACTORY COMPLETION OF THE SURVEILLANCE. |
| 88-5 | 04/29/88 | S | 0.0 | B | 5 | | | PLANNED SHUTDOWN FOR 21 DAY OUTAGE. UNIT NOT OFF LINE AT END OF REPORTING PERIOD. |

* SUMMARY *

NINE MILE POINT 2 INCURRED 3 POWER REDUCTIONS IN APRIL 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) |

* NINE MILE POINT 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK
COUNTY.....OSWEGO
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...8 MI NE OF
OSWEGO, NY
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...MAY 23, 1987
DATE ELEC ENER 1ST GENER...AUGUST 8, 1987
DATE COMMERCIAL OPERATE...MARCH 11, 1988
CONDENSER COOLING METHOD...COOLING TOWER
CONDENSER COOLING WATER...LAKE ONTARIO
ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NIAGARA MOHAWK POWER CORP.
CORPORATE ADDRESS.....300 ERIE BOULEVARD WEST
SYRACUSE, NEW YORK 13202
CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....STONE & WEBSTER
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....W. COOK
LICENSING PROJ MANAGER.....M. HAUGHEY
DOCKET NUMBER.....50-410
LICENSE & DATE ISSUANCE...NPF-69, JULY 2, 1987
PUBLIC DOCUMENT ROOM.....STATE UNIVERSITY COLLEGE OF OSWEGO
PENFIELD LIBRARY - DOCUMENTS
OSWEGO, NY 13126
(315) 341-2323

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 APR 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 RE SITE INSPECTION DATE: INFO. NOT SUPPLIED BY REGION

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

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

=====

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

INFO. NOT SUPPLIED BY REGION

=====

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: B. GARNER (703) 894-5151 X2527

4. Licensed Thermal Power (MWh): 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>719.0</u> | <u>2,903.0</u> | <u>86,808.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,177.8</u> | <u>59,609.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>148.6</u> | <u>5,796.6</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,017.5</u> | <u>57,786.0</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWh) | <u>2,978,640</u> | <u>5,580,001</u> | <u>151,756,775</u> |
| 18. Gross Elec Ener (MWh) | <u>693,097</u> | <u>1,849,690</u> | <u>49,753,578</u> |
| 19. Net Elec Ener (MWh) | <u>658,236</u> | <u>1,754,434</u> | <u>47,049,028</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>69.5</u> | <u>66.6</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>69.5</u> | <u>66.6</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.1</u> | <u>66.0</u> | <u>59.2</u> |
| 23. Unit Cap Factor (DER Net) | <u>100.9</u> | <u>66.6</u> | <u>59.8</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>27.7</u> | <u>15.6</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>771.7</u> | <u>10,593.2</u> |

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

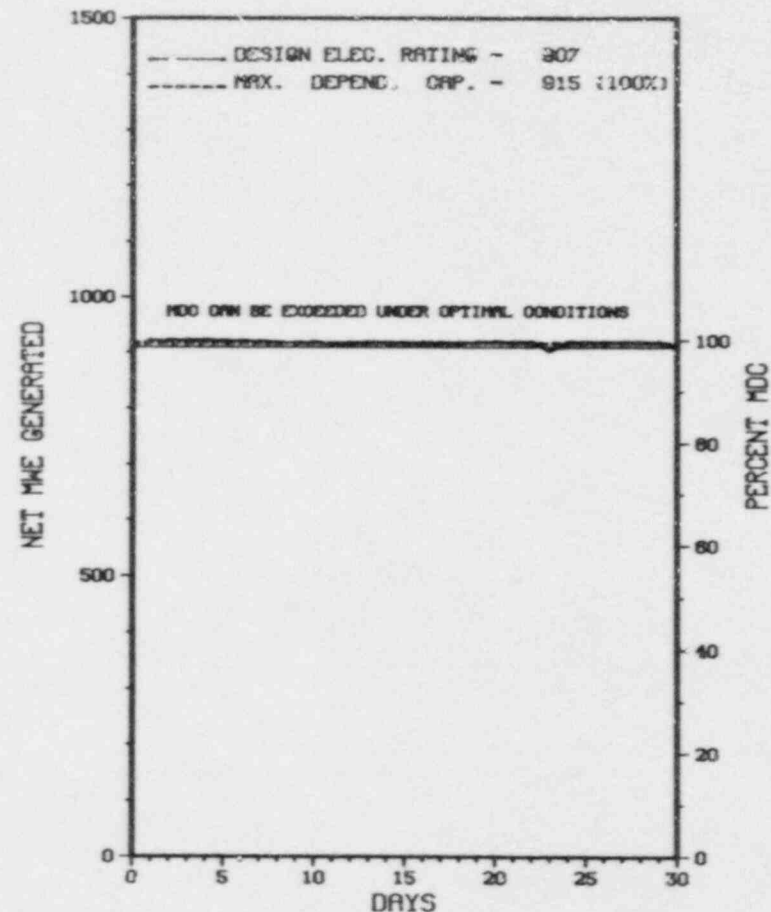
NONE

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

* NORTH ANNA 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NORTH ANNA 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* NORTH ANNA 1 *

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

NONE

* SUMMARY *

NORTH ANNA 1 OPERATED ROUTINELY IN APRIL 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) |

* NORTH ANNA 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....VIRGINIA
COUNTY.....LOUISA
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...40 MI NW OF
RICHMOND, VA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...APRIL 5, 1978
DATE ELEC ENER 1ST GENER...APRIL 17, 1978
DATE COMMERCIAL OPERATE....JUNE 6, 1978
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER....LAKE ANNA
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....VIRGINIA POWER
CORPORATE ADDRESS.....P.O. BOX 26666
RICHMOND, VIRGINIA 23261
CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....STONE & WEBSTER
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....M. BRANCH
LICENSING PROJ MANAGER.....L. ENGLE
DOCKET NUMBER.....50-338
LICENSE & DATE ISSUANCE...NPF-4, APRIL 1, 1978
PUBLIC DOCUMENT 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

+ INSPECTION MARCH 21-25 (88-07): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; BARRIERS - VITAL AREAS; DETECTION AIDS - PROTECTED AND VITAL AREAS; ALARM STATIONS; AND CONTINGENCY PLAN RESPONSE. ONE VIOLATION AND ONE INSPECTOR FOLLOW-UP ITEM WERE IDENTIFIED. VIOLATION 88-07-01 INADEQUATE PROTECTED AREA ALARM ZONES IFI 88-07-02 TAMPER CIRCUITS TO BE REWIRED.

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION III, AND THE LICENSEE'S ACCEPTED QUALITY ASSURANCE (QA) PROGRAM, UPDATE FINAL SAFETY ANALYSIS REPORT, SECTION 17.2.3, A DESIGN CHANGE WAS MADE TO PIPE HANGER 01-CC-R-173 AND THE ANALYSIS WAS NOT PERFORMED IN A PLANNED, CONTROLLED AND CORRECT MANNER IN THAT A DOCUMENTED ANALYSIS WAS NOT PERFORMED AND THE SUPPORTING CALCULATIONS WERE NOT IDENTIFIED. ADDITIONALLY, THE DESIGN CHANGE WAS NOT DOCUMENTED.
(8800 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

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

* NORTH ANNA 1 *

OTHER ITEMS

+ RESIN IN SECONDARY PLANT.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ COLD SHUTDOWN FOR RESIN CLEANUP.

LAST IE SITE INSPECTION DATE: MARCH 21-25, 1988 +

INSPECTION REPORT NO: 50-338/88-07 +

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

| ===== | | | |
|--------|------------------|-------------------|---|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| 88-011 | 03/11/88 | 04/07/88 | POST MODIFICATION TESTING NOT PERFORMED AS REQUIRED BY TWO TECHNICAL SPECIFICATIONS |
| 88-012 | 03/15/88 | 04/08/88 | LOSS OF RHR CAPABILITY DUE TO FAILED SOLENOID OPERATED VALVE |
| 88-013 | 03/19/88 | 04/14/88 | TURBINE TRIP/REACTOR TRIP - EHC SYSTEM MALFUNCTION |
| 88-014 | 03/18/88 | 04/15/88 | REACTOR TRIP DUE TO "C" S/G LEVEL SIGNAL |
| 88-015 | 03/22/88 | 04/14/88 | RHR PUMPS NOT TESTED DURING STEAM GENERATOR TUBE RUPTURE OUTAGE |
| 88-017 | 02/16/88 | 04/14/88 | FAILURE TO TEST CONTAINMENT PERSONNEL AIRLOCK EQUALIZING VALVES |
| ===== | | | |

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

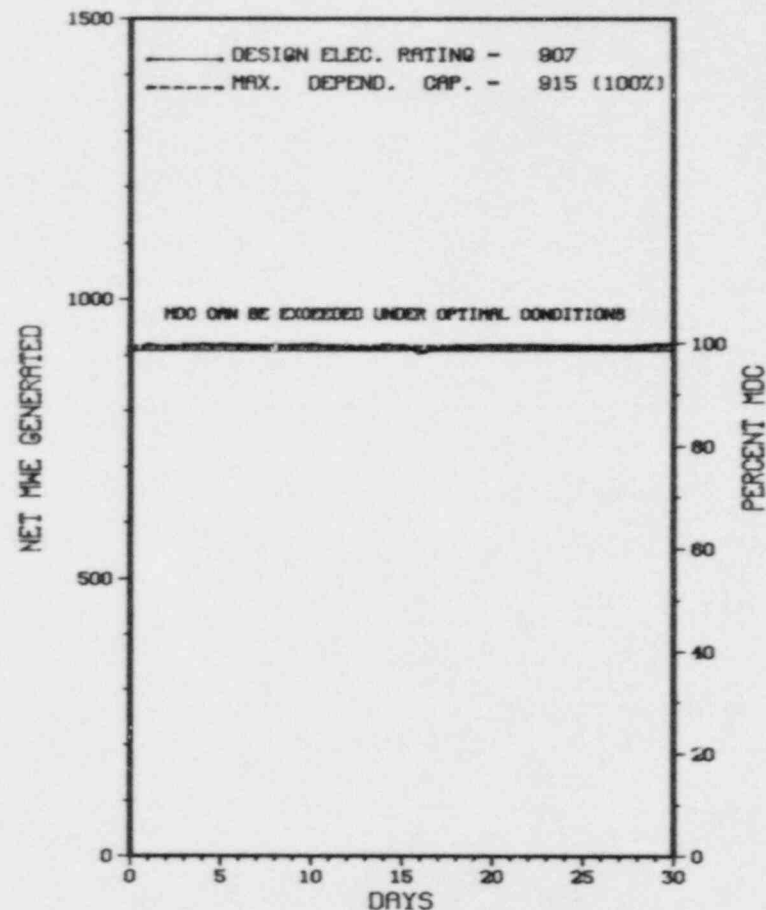
| | MONTH | YEAR | CUMULATIVE |
|--|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,933.0</u> | <u>64,679.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,853.9</u> | <u>51,314.7</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>49.1</u> | <u>4,093.1</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,827.2</u> | <u>50,255.3</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,074,069</u> | <u>8,141,634</u> | <u>132,464,388</u> |
| 18. Gross Elec Ener (MWH) | <u>692,441</u> | <u>2,711,402</u> | <u>43,938,583</u> |
| 19. Net Elec Ener (MWH) | <u>657,804</u> | <u>2,578,461</u> | <u>41,636,819</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>97.4</u> | <u>77.7</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>97.4</u> | <u>77.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.0</u> | <u>97.1</u> | <u>70.4</u> |
| 23. Unit Cap Factor (DER Net) | <u>100.9</u> | <u>97.9</u> | <u>71.0</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>8.7</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>4,768.9</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |

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

 * NORTH ANNA 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NORTH ANNA 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* NORTH ANNA 2 *

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

NONE

* SUMMARY *

NORTH ANNA 2 OPERATED ROUTINELY IN APRIL 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....VIRGINIA
COUNTY.....LOUISA
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...40 MI NW OF
RICHMOND, VA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JUNE 12, 1980
DATE ELEC ENER 1ST GENER...AUGUST 25, 1980
DATE COMMERCIAL OPERATE...DECEMBER 14, 1980
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...LAKE ANNA
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....VIRGINIA POWER
CORPORATE ADDRESS.....P.O. BOX 26666
RICHMOND, VIRGINIA 23261
CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....STONE & WEBSTER
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....M. BRANCH
LICENSING PROJ MANAGER.....L. ENGLE
DOCKET NUMBER.....50-339
LICENSE & DATE ISSUANCE...NPF-7, AUGUST 21, 1980
PUBLIC DOCUMENT ROOM.....ALDERMAN LIBRARY/MANUSCRIPTS DEPT.
UNIV. OF VIRGINIA/CHARLOTTESVILLE VA 22901

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION MARCH 21-25 (88-07): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; BARRIERS - VITAL AREAS; DETECTION AIDS - PROTECTED AND VITAL AREAS; ALARM STATIONS; AND CONTINGENCY PLAN RESPONSE. ONE VIOLATION AND ONE INSPECTOR FOLLOW-UP ITEM WERE IDENTIFIED. VIOLATION 88-07-01 INADEQUATE PROTECTED AREA ALARM ZONES IFI 88-07-02 * MPCR CIRCUITS TO BE REWIRED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ RESIN IN SECONDARY PLANT.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period APR 1988

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

* NORTH ANNA 2 *

OTHER ITEMS

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ COLD SHUTDOWN FOR RESIN CLEANUP.

LAST IE SITE INSPECTION DATE: MARCH 21-25, 1988 +

INSPECTION REPORT NO: 50-338/88-07 +

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

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (MWt): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 846

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

10. Power Level To Which Restricted, If Any (Net MWe):
NONE

11. Reasons for Restrictions, If Any:
NONE

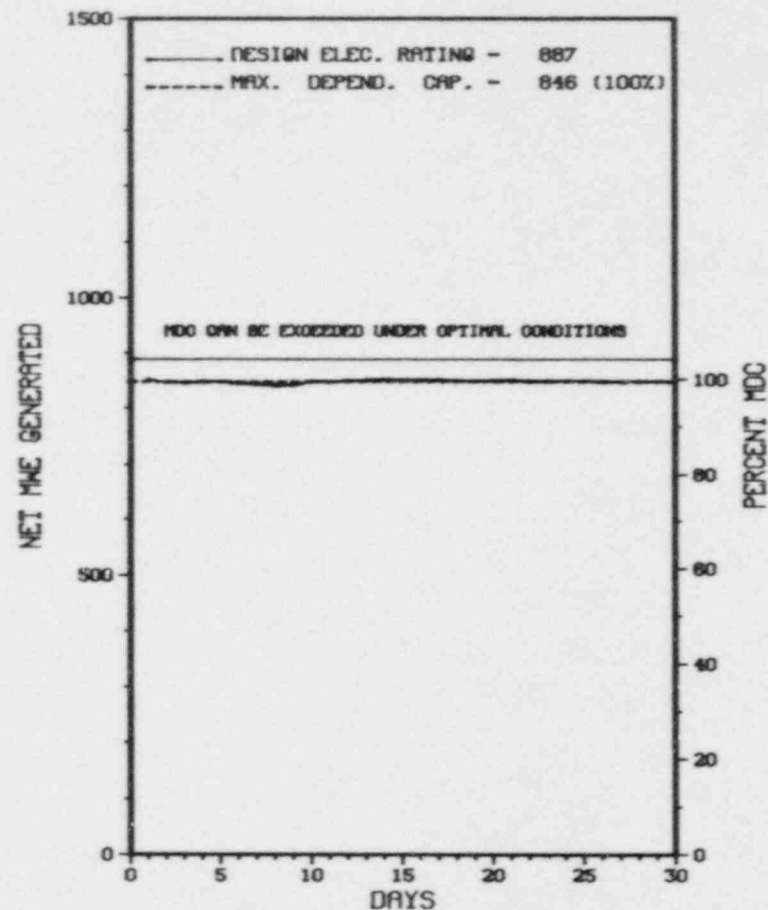
| | MONTH | YEAR | CUMULATIVE |
|---|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>129,672.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>96,212.3</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,903.0</u> | <u>92,600.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,842,792</u> | <u>7,289,808</u> | <u>223,774,873</u> |
| 18. Gross Elec Ener (MWH) | <u>635,724</u> | <u>2,521,302</u> | <u>77,628,959</u> |
| 19. Net Elec Ener (MWH) | <u>608,515</u> | <u>2,411,285</u> | <u>73,622,390</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>71.4</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>100.0</u> | <u>71.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.0</u> | <u>98.2</u> | <u>65.9*</u> |
| 23. Unit Cap Factor (DER Net) | <u>95.4</u> | <u>93.6</u> | <u>64.1*</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>.3.5</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>13,514.7</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
<u>NONE</u> | | | |

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

* OCONEE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * OCONEE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 6-P | 04/15/88 | F | 0.0 | B | 5 | | HH | HTEXCH | LOSS OF VACUUM DUE TO WORK ON HEATER ORIFICE FLANGES. |

 * SUMMARY *

 OCONEE 1 INCURRED 1 POWER REDUCTION IN APRIL DUE TO WORK ON
 HEATER OFFICE FLANGES.

| Type | Reason | Method | System & Component |
|----------|--------------------------|----------------|-------------------------|
| F-Forced | A-Eq ip 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 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....SOUTH CAROLINA

COUNTY.....OCONEE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...30 MI W OF
GREENVILLE, SC

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...APRIL 19, 1973

DATE ELEC ENER 1ST GENER...MAY 6, 1973

DATE COMMERCIAL OPERATE....JULY 15, 1973

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....LAKE KEOWEE

ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DUKE POWER

CORPORATE ADDRESS.....422 SOUTH CHURCH STREET
CHARLOTTE, NORTH CAROLINA 28242

CONTRACTOR
ARCHITECT/ENGINEER.....DUKE & BECHTEL

NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX

CONSTRUCTOR.....DUKE POWER

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. BRYANT

LICENSING PROJ MANAGER.....H. PASTIS
DOCKET NUMBER.....50-269

LICENSE & DATE ISSUANCE...DPR-38, FEBRUARY 6, 1973

PUBLIC DOCUMENT ROOM.....OCONEE COUNTY LIBRARY
501 W. SOUTH BROAD ST.
WALHALLA, SOUTH CAROLINA 29691

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION MARCH 21-25 (88-10): THIS UNANNOUNCED, ROUTINE, PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: 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 STATION; AND COMMUNICATIONS. ONE VIOLATION WAS IDENTIFIED INVOLVING TWO EXAMPLES OF FAILURE TO MAINTAIN THE VITAL AREA BARRIER INTEGRITY AND BULLET RESISTANCE. SECOND VIOLATION IDENTIFIED INVOLVED FAILURE TO COMPLY WITH PROTECTED AREA ACCESS REQUIREMENTS.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X          OCONEE 1          X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: MARCH 21-25, 1988 +

INSPECTION REPORT NO: 50-269/88-10 +

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---|
| 88-004 | 02/22/88 | 04/06/88 | EMERGENCY POWER SWITCHING LOGIC RETRANSFER TO STARTUP LOGIC DEFEATED DUE TO DESIGN DEFICIENCY |

1. Docket: 50-270 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (MWt): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 846

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

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

11. Reasons for Restrictions, If Any: _____

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|----------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>119,592.0</u> |
| 13. Hours Reactor Critical | <u>538.9</u> | <u>1,336.3</u> | <u>90,033.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>441.1</u> | <u>1,237.2</u> | <u>88,530.6</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>982,416</u> | <u>2,719,224</u> | <u>210,359,325</u> |
| 18. Gross Elec Ener (MWH) | <u>325,095</u> | <u>905,785</u> | <u>71,588,466</u> |
| 19. Net Elec Ener (MWh) | <u>302,503</u> | <u>848,815</u> | <u>68,046,133</u> |
| 20. Unit Service Factor | <u>61.3</u> | <u>42.6</u> | <u>74.0</u> |
| 21. Unit Avail Factor | <u>61.3</u> | <u>42.6</u> | <u>74.0</u> |
| 22. Unit Cap Factor (MDC Net) | <u>49.7</u> | <u>34.6</u> | <u>66.0*</u> |
| 23. Unit Cap Factor (DER Net) | <u>47.4</u> | <u>33.0</u> | <u>64.2*</u> |
| 24. Unit Forced Outage Rate | <u>12.3</u> | <u>4.8</u> | <u>11.8</u> |
| 25. Forced Outage Hours | <u>62.1</u> | <u>62.1</u> | <u>11,025.1</u> |

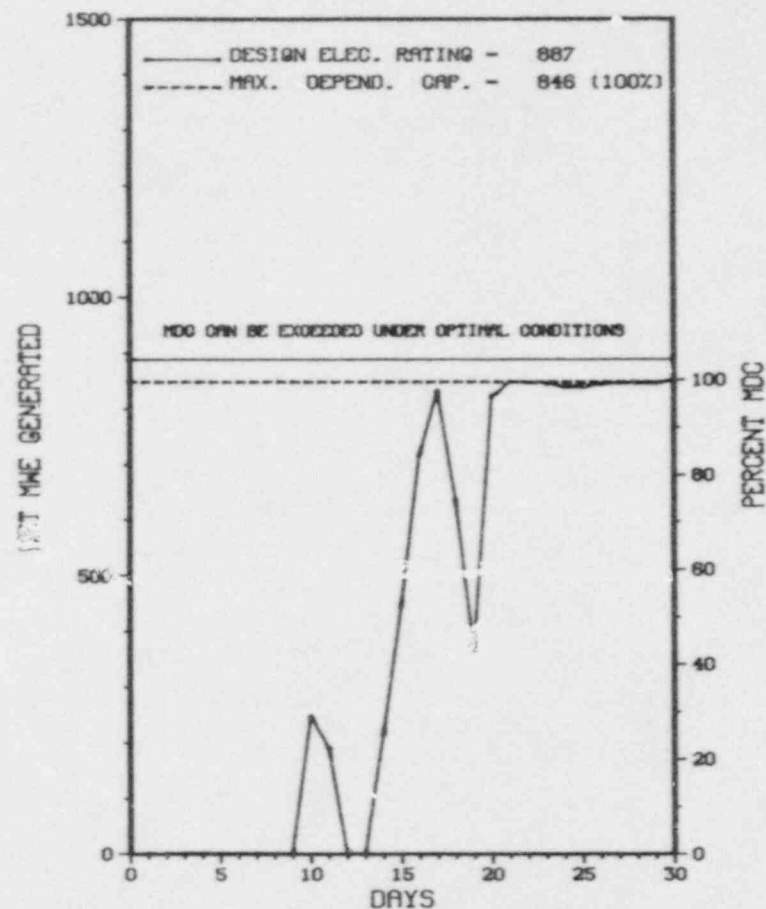
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

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

* OCONEE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 2



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * OCONEE 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 1 | 02/03/88 | S | 215.8 | C | 4 | | RC | FUELXX | END OF CYCLE 9 REFUELING OUTAGE. |
| 2 | 04/11/88 | F | 62.1 | B | 1 | | HA | MECFUN | TURBINE GENERATOR ALTREX COUPLING LEAK REPAIR. |
| 10-P | 04/16/88 | F | 0.0 | A | 5 | | HJ | PUMPXX | PROBLEM WITH STARTING 'E' HEATER DRAIN PUMP. |
| 11-P | 04/18/88 | F | 0.0 | A | 5 | | HA | TURBIN | TURBINE GENERATOR STATOR COOLANT RUNBACK. |
| 12-P | 04/18/88 | F | 0.0 | B | 5 | | HA | INSTRU | REPAIR TURBINE GENERATOR STATOR COOLER INSTRUMENTATION. |
| 13-P | 04/25/88 | F | 0.0 | B | 5 | | HD | VALVEX | REPAIR EXTRACTION STEAM VALVE CONTROLLER. |
| 14-P | 04/25/88 | F | 0.0 | A | 5 | | HB | HTEXCH | ISOLATED '2A2' FEEDWATER HEATER DUE TO TUBE LEAKS. |

 * SUMMARY *

 OCONEE 2 COMPLETED SCHEDULED REFUELING OUTAGE IN APRIL.
 SUBSEQUENTLY RETURNED TO POWER AND INCURRED 1 POWER
 OUTAGE AND SEVERAL 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 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....SOUTH CAROLINA

COUNTY.....OCONEE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...30 MI W OF
GREENVILLE, SC

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...NOVEMBER 11, 1973

DATE ELEC ENER 1ST GENER...DECEMBER 5, 1973

DATE COMMERCIAL OPERATE...SEPTEMBER 9, 1974

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...LAKE 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 MARCH 21-25 (88-10): THIS UNANNOUNCED, ROUTINE, PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: 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 STATION; AND COMMUNICATIONS. ONE VIOLATION WAS IDENTIFIED INVOLVING TWO EXAMPLES OF FAILURE TO MAINTAIN THE VITAL AREA BARRIER INTEGRITY AND BULLET RESISTANCE. SECOND VIOLATION IDENTIFIED INVOLVED FAILURE TO COMPLY WITH PROTECTED AREA ACCESS REQUIREMENTS.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* OCONEE 2 *

OTHER ITEMS

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: MARCH 21-25, 1988 +

INSPECTION REPORT NO: 50-270/88-10 +

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: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. A. REAVIS (704) 373-7567

4. Licensed Thermal Power (MWt): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 846

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

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

11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|----------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>117,239.0</u> |
| 13. Hours Reactor Critical | <u>410.0</u> | <u>2,594.0</u> | <u>85,943.1</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>409.8</u> | <u>2,593.8</u> | <u>84,579.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>934,968</u> | <u>6,480,000</u> | <u>207,379,461</u> |
| 18. Gross Elec Ener (MWH) | <u>324,190</u> | <u>2,245,451</u> | <u>71,455,996</u> |
| 19. Net Elec Ener (MWH) | <u>308,183</u> | <u>2,151,389</u> | <u>68,080,019</u> |
| 20. Unit Service Factor | <u>57.0</u> | <u>89.3</u> | <u>72.1</u> |
| 21. Unit Avail Factor | <u>57.0</u> | <u>89.3</u> | <u>72.1</u> |
| 22. Unit Cap Factor (MDC Net) | <u>50.7</u> | <u>87.6</u> | <u>67.4*</u> |
| 23. Unit Cap Factor (DER Net) | <u>48.3</u> | <u>83.6</u> | <u>65.5*</u> |
| 24. Unit Forced Outage Rate | <u>43.0</u> | <u>10.7</u> | <u>13.1</u> |
| 25. Forced Outage Hours | <u>309.2</u> | <u>309.2</u> | <u>12,934.5</u> |

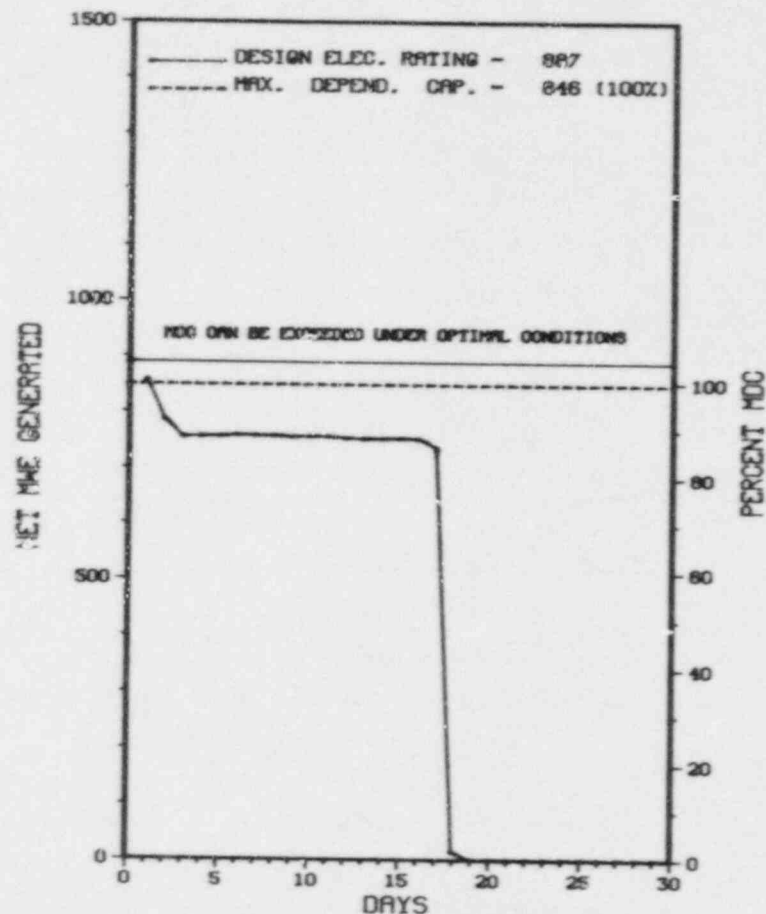
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING- AUGUST 2, 1988 - 7 WEEK DURATION.

27. If Currently Shutdown Estimated Startup Date: 05/09/88

 * OCONEE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 3



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * OCONEE 3 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 5-P | 04/02/88 | S | 0.0 | F | 5 | | ZZ | ZZZZZZ | CORE CONSERVATION PER DISPATCHER'S REQUEST. |
| 6-P | 04/17/88 | F | 0.0 | A | 5 | | CH | HTEXCH | POWER REDUCTION DUE TO STEAM GENERATOR TUBE LEAK. |
| 1 | 04/18/88 | F | 309.2 | B | 1 | | CH | HTEXCH | STEAM GENERATOR TUBE LEAK OUTAGE. |

 * SUMMARY *

 OCONEE 3 INCURRED 2 POWER REDUCTIONS AND 1 FORCED OUTAGE IN
 APRIL 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) |

* OCONEE 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....SOUTH CAROLINA

COUNTY.....OCONEE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...30 MI W OF
GREENVILLE, SC

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION MARCH 21-25 (88-10): THIS UNANNOUNCED, ROUTINE, PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: 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 STATION; AND COMMUNICATIONS. ONE VIOLATION WAS IDENTIFIED INVOLVING TWO EXAMPLES OF FAILURE TO MAINTAIN THE VITAL AREA BARRIER INTEGRITY AND BULLET RESISTANCE. SECOND VIOLATION IDENTIFIED INVOLVED FAILURE TO COMPLY WITH PROTECTED AREA ACCESS REQUIREMENTS.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* OCONEE 3 *

OTHER ITEMS

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: MARCH 21-25, 1988 +

INSPECTION REPORT NO: 50-287/88-10 +

REPORTS FROM LICENSEE

=====

| 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: 04/01/88 Outage + On-line Hrs: 719.0

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

4. Licensed Thermal Power (MWt): 1930

5. Nameplate Rating (Gross MWe): 687.5 X .98 = 674

6. Design Electrical Rating (Net MWe): 650

7. Maximum Dependable Capacity (Gross MWe): 642

8. Maximum Dependable Capacity (Net MWe): 620

9. If Changes Occur Above Since Last Report, Give Reasons:
MDC GROSS CHANGED TO REFLECT SUMMER GENERATION.

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

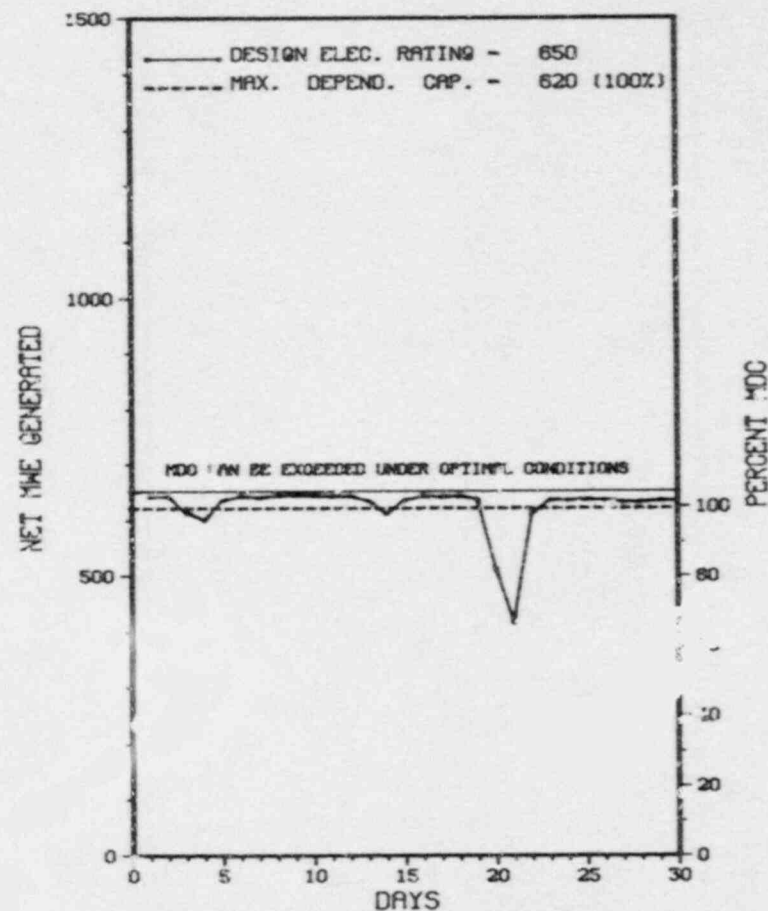
11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|---|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>160,895.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>104,054.5</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,208.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,903.0</u> | <u>100,494.9</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,761.4</u> |
| 17. Gross Therm Ener (MWH) | <u>1,356,000</u> | <u>5,516,000</u> | <u>168,280,408</u> |
| 18. Gross Elec Ener (MWH) | <u>464,380</u> | <u>1,899,770</u> | <u>56,818,124</u> |
| 19. Net Elec Ener (MWH) | <u>447,695</u> | <u>1,831,844</u> | <u>54,554,732</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>62.6</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>100.0</u> | <u>63.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.4</u> | <u>101.8</u> | <u>54.7*</u> |
| 23. Unit Cap Factor (DER Net) | <u>95.8</u> | <u>97.1</u> | <u>52.2</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>14.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>14,446.5</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
<u>REFUELING - 10/1/88 - 90 DAY DURATION.</u> | | | |

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

* OYSTER CREEK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
OYSTER CREEK 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* OYSTER CREEK 1 *

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

NONE

* SUMMARY *

OYSTER CREEK OPERATED ROUTINELY IN APRIL 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 |
| | C-Refueling | 3-Auto Scram | Preparation of |
| | D-Regulatory Restriction | 4-Continued | Data Entry Sheet |
| | E-Operator Training | 5-Reduced Load | Licensee Event Report |
| | & License Examination | 9-Other | (LER) File (NUREG-0161) |

* OYSTER CREEK 1 *

FACILITY DATA

Report Period APR 1988

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.....J. WECHELBERGER

LICENSING PROJ MANAGER.....A. DROMERICK
DOCKET NUMBER.....50-219

LICENSE & DATE ISSUANCE...DPR-16, AUGUST 1, 1969

PUBLIC DOCUMENT ROOM.....OCEAN COUNTY LIBRARY
161 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

FAILURE TO REQUALIFY ARMED PERSONNEL WITH FIREARMS WITHIN A 12 MONTH PERIOD.
(8702 5)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period APR 1988

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

* OYSTER CREEK 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

=====

| 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: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>143,462.0</u> |
| 13. Hours Reactor Critical | <u>640.3</u> | <u>2,214.5</u> | <u>76,232.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>637.2</u> | <u>2,182.0</u> | <u>72,448.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,522,344</u> | <u>5,090,136</u> | <u>152,278,053</u> |
| 18. Gross Elec Ener (MWH) | <u>490,440</u> | <u>1,645,275</u> | <u>47,555,795</u> |
| 19. Net Elec Ener (MWH) | <u>464,567</u> | <u>1,557,687</u> | <u>44,774,721</u> |
| 20. Unit Service Factor | <u>88.6</u> | <u>75.2</u> | <u>50.5</u> |
| 21. Unit Avail Factor | <u>88.6</u> | <u>75.2</u> | <u>50.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>88.5</u> | <u>73.5</u> | <u>42.8</u> |
| 23. Unit Cap Factor (DER Net) | <u>80.3</u> | <u>60.7</u> | <u>38.8</u> |
| 24. Unit Forced Outage Rate | <u>11.4</u> | <u>24.8</u> | <u>35.6</u> |
| 25. Forced Outage Hours | <u>81.8</u> | <u>721.0</u> | <u>25,980.5</u> |

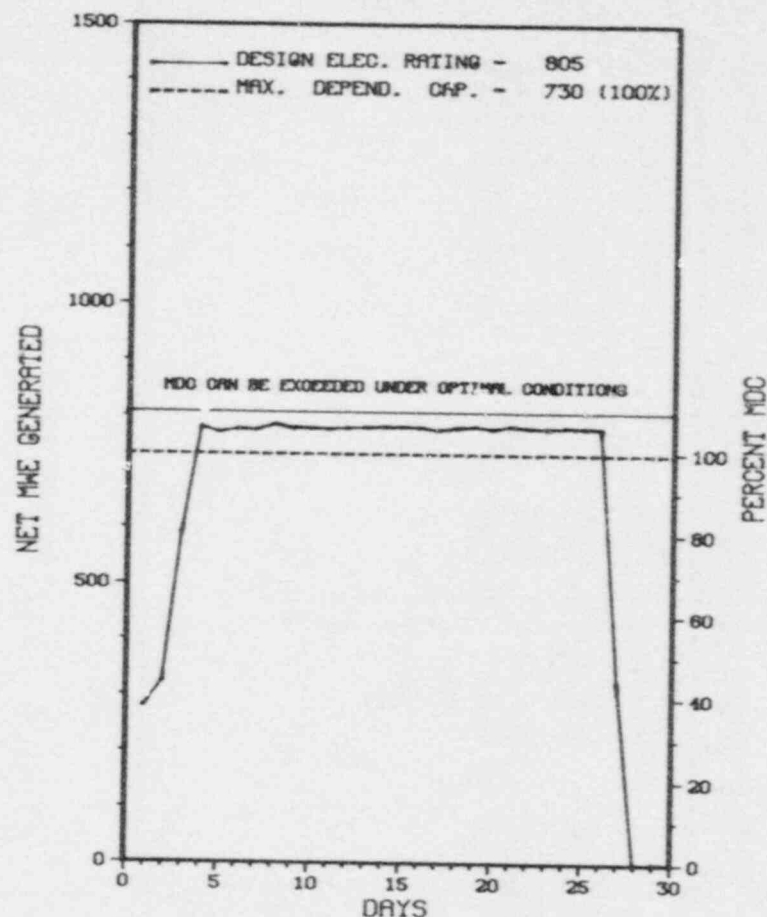
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING, SEPT. 9, 1988, 86 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: 05/01/88

 * PALISADES *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALISADES



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * PALISADES *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 19 | 04/27/88 | F | 81.8 | A | 1 | | | | CONTROL ROD NO. 6 DROPPED INTO THE CORE DUE TO FAILURE OF CRDM NO. 6. |

 * SUMMARY *

 PALISADES INCURRED 1 POWER OUTAGE IN APRIL 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) |

* PALISADES *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MICHIGAN

COUNTY.....VANBUREN

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI S OF
SOUTH HAVEN, MI

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 24, 1971

DATE ELEC ENER 1ST GENER...DECEMBER 31, 1971

DATE COMMERCIAL OPERATE...DECEMBER 31, 1971

CONDENSER COOLING METHOD...COOLING TOWERS

CONDENSER COOLING WATER...LAKE MICHIGAN

ELECTRIC RELIABILITY
COUNCIL.....EAST CENTRAL AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & C

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

CTOR INFORMATION

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 MARCH 3 THROUGH APRIL 4, 1988 (88008): ROUTINE, UNANNOUNCED inspection by resident inspectors and Region III staff of followup of previous inspection findings; operational safety; maintenance; surveillance; physical security; radiological protection; bulletins; generic letters; information notices; and quarterly management meeting. Of the area inspected two violations were identified. The first involves inadequate evaluation and documentation of an issue involving an unreviewed safety question. The second involves an improperly performed surveillance test where technician performance was not adequate.

INSPECTION ON FEBRUARY 4 THROUGH MARCH 2, 1988 (88007): ROUTINE UNANNOUNCED inspection by resident inspectors and Region III staff of followup of previous inspection findings; operational safety; maintenance; surveillance; physical security; radiological protection; bulletins; and reportable events. Of the areas inspected, no violations or deviations were identified.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                PALISADES                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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SYSTEMS AND COMPONENT PROBLEMS:

NGNE

FACILITY ITEMS (PLANS AND PROCEDURES):

REFUELING OUTAGE PLANNED FOR 9/6/88

MANAGERIAL ITEMS:

D.P. HOFFMAN SELECTED AS NEW V.P. NUCLEAR

PLANT STATUS:

OPERATED ENTIRE MONTH. DERATED TO 40% POWER ON 3/31 TO INVESTIGATE CONDENSER TUBE LEAK.

LAST IE SITE INSPECTION DATE: 04/04/88

INSPECTION REPORT NO: 88008

REPORTS FROM LICENSEE

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

| | | | |
|-------|--------|--------|---|
| 88-06 | 032788 | 042688 | INADVERTENT MANUAL AUXILIARY FEEDWATER ACTUATION SYSTEM ACTUATION |
|-------|--------|--------|---|

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

2. Reporting Period: 04/01/88 utage + On-line Hrs: 720.0

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): _____

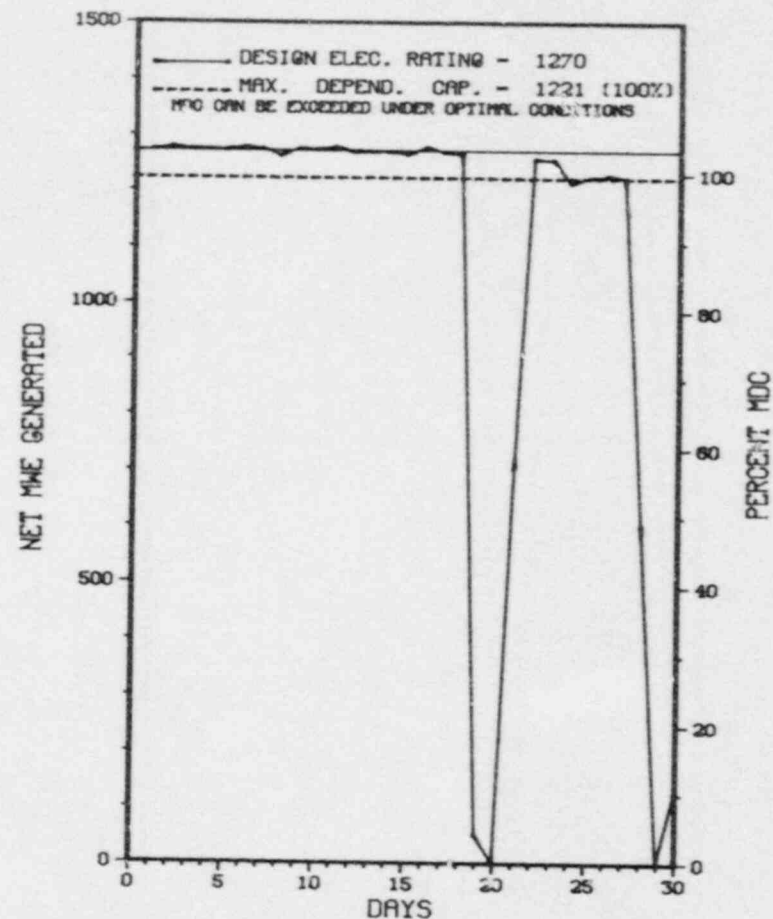
11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|--|------------------|------------------|-------------------|
| 12. Report Period Hrs | <u>720.0</u> | <u>2,904.0</u> | <u>19,776.0</u> |
| 13. Hours Reactor Critical | <u>635.8</u> | <u>1,216.0</u> | <u>11,193.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>623.6</u> | <u>1,142.3</u> | <u>10,859.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,300,328</u> | <u>3,967,829</u> | <u>39,000,666</u> |
| 18. Gross Elec Ener (MWH) | <u>805,300</u> | <u>1,387,300</u> | <u>13,530,600</u> |
| 19. Net Elec Ener (MWH) | <u>758,479</u> | <u>1,288,858</u> | <u>12,616,972</u> |
| 20. Unit Service Factor | <u>86.6</u> | <u>39.3</u> | <u>54.9</u> |
| 21. Unit Avail Factor | <u>86.6</u> | <u>39.3</u> | <u>54.9</u> |
| 22. Unit Cap Factor (MDC Net) | <u>86.3</u> | <u>36.3</u> | <u>52.3</u> |
| 23. Unit Cap Factor (DER Net) | <u>82.9</u> | <u>34.9</u> | <u>50.2</u> |
| 24. Unit Forced Outage Rate | <u>13.4</u> | <u>26.4</u> | <u>34.6</u> |
| 25. Forced Outage Hours | <u>96.4</u> | <u>1,477.2</u> | <u>5,748.9</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |
| 27. If Currently Shutdown Estimated Start-up Date: | <u>N/A</u> | | |

 * PALO VERDE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * PALO VERDE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 3 | 04/19/88 | F | 48.9 | G | 3 | 1-88-011 | FK | DISC | REACTOR TRIP RESULTING FROM INADVERTENT OPENING OF MAIN GENERATOR OUTPUT BREAKER. |
| 4 | 04/28/88 | F | 47.5 | A | 1 | | | | LEAKING OIL FILTER ON REACTOR COOLANT PUMP NECESSITATED A REACTOR SHUTDOWN TO REPLACE FILTER. |

 * SUMMARY *

 PALO VERDE 1 INCURRED 2 FORCED OUTAGES IN APRIL FOR REASONS STATED ABOVE.

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

FACILITY DESCRIPTION

Report Period APR 1983

UTILITY & CONTRACTOR INFORMATION

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
LICENSEE.....ARIZONA PUBLIC SERVICE
CORPORATE ADDRESS.....P.O. BOX 21666
                                PHOENIX, ARIZONA 85036
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....GENERAL ELECTRIC
```

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V
IE RESIDENT INSPECTOR.....T. POLICH
LICENSING PROJ MANAGER.....E. LICITRA
DOCKET NUMBER.....50-528
LICENSE & DATE ISSUANCE....NPF-41, JUNE 1, 1985
PUBLIC DOCUMENT ROOM.....MS STEFANIE MORITZ
DOCUMENTS LIBRARIAN
PHOENIX PUBLIC LIBRARY
12 EAST McDOWELL ROAD
PHOENIX, ARIZONA 85004

INSPECTION STATUS

INSPECTION SUMMARY

4. INSPECTION ON JANUARY 17 - MARCH 5, 1968 (REPORT NO. 50-528/88-02); AREAS INSPECTED: ROUTINE, ONSITE, REGULAR AND BACKSHIFT INSPECTION BY THE THREE RESIDENT INSPECTORS AND ONE REGIONALLY BASED INSPECTOR. AREAS INSPECTED INCLUDED: PREVIOUSLY IDENTIFIED ITEMS; REVIEW OF PLANT ACTIVITIES; PLANT TOURS, HOUSEKEEPING; ENGINEERED SAFETY FEATURE SYSTEM WALKDOWNS; SURVEILLANCE TESTING; PLANT MAINTENANCE; INOPERABLE CONTROL ELEMENT ASSEMBLY; INOPERABLE HIGH PRESSURE SAFETY INJECTION PUMPS DURING MODE 4; ESSENTIAL COOLING PUMP ROOM ALARMS; CONTROL ROOM ANNUNCIATORS; OPERATIONAL ERRORS; FUEL RECEIPT AND STORAGE; PREPARATION FOR REFUELING; REVIEW OF LICENSEE PROGRAMS FOR FOLLOWUP OF NRC INFORMATION NOTICES AND BULLETINS; NRC COMPLIANCE BULLETIN NUMBER 87-02; FASTENER TESTING TO DETERMINE CONFORMANCE WITH APPLICABLE MATERIAL SPECIFICATIONS; FOLLOWUP OF LICENSEE EVENT REPORTS; AND REVIEW OF PERIODIC AND SPECIAL REPORTS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: OF THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

+ INSPECTION ON MARCH 6 - APRIL 16, 1988 (REPORT NO. 50-528/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON APRIL 4 - 8, 1988 (REPORT NO. 50-528/88-12) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MAY 16 - 27, 1988 (REPORT NO. 50-528/88-13) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

Report Period APR 1988

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

X PALO VERDE 1 X

INSPECTION SUMMARY

- + INSPECTION ON APRIL 17 - MAY 21, 1988 (REPORT NO. 50-528/88-14) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 4 - 20, 1988 (REPORT NO. 50-528/88-15) 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:

+ PRESENTLY OPERATING AT FULL POWER.

LAST IE SITE INSPECTION DATE: 05/16 - 27/88+

INSPECTION REPORT NO: 50-528/88-13+

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

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|----------|------------------|-------------------|--|
| 88-01-S0 | 02-17-88 | 03-18-88 | UNCOMPENSATED OPENING BETWEEN VITAL AREAS (SAFEGUARDS EVENT) |
| 88-01-X0 | 01-22-88 | 02-16-88 | MONITOR RV-142 (SPECIAL REPORT) |

1. Docket: 50-529 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 720.0

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>720.0</u> | <u>2,904.0</u> | <u>14,160.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>1,202.0</u> | <u>10,477.1</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>.0</u> | <u>1,202.0</u> | <u>10,328.2</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>0</u> | <u>4,508,600</u> | <u>37,715,767</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>1,588,100</u> | <u>13,249,370</u> |
| 19. Net Elec Ener (MWH) | <u>0</u> | <u>1,487,775</u> | <u>12,424,657</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>41.4</u> | <u>72.9</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>41.4</u> | <u>72.9</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>42.0</u> | <u>71.9</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>40.3</u> | <u>69.1</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>5.8</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>637.1</u> |

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

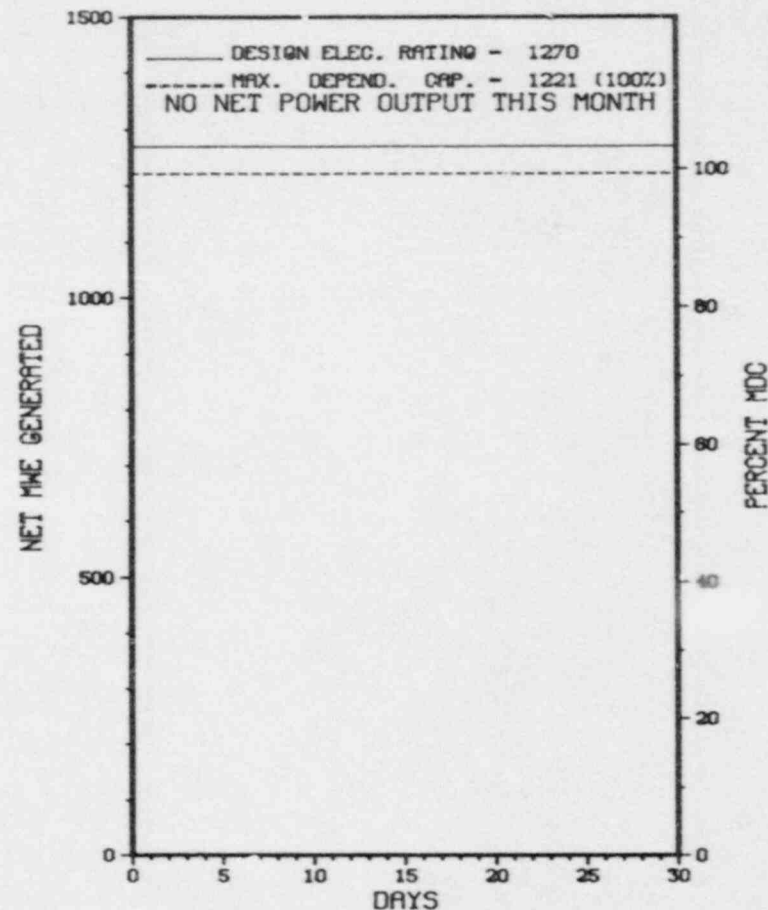
NONE

27. If Currently Shutdown Estimated Startup Date: 06/16/88

* PALO VERDE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * PALO VERDE 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 2 | 02/20/88 | S | 720.0 | C | 4 | | | | REFUELING OUTAGE UNDERWAY. |

 * SUMMARY *

 PALO VERDE 2 REMAINED SHUTDOWN IN APRIL 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) |

Report Period APR 1988

UTILITY & CONTRACTOR INFORMATION

```

LOCATION
STATE.....ARIZONA

COUNTY.....MARICOPA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...36 MI W OF
                           PHOENIX, AZ

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...APRIL 18, 1986

DATE ELEC ENER 1ST GENER...MAY 20, 1986

DATE COMMERCIAL OPERATE...SEPTEMBER 19, 1986

CONDENSER COOLING METHOD...COOLING TOWERS

CONDENSER COOLING WATER...SEWAGE TREATMENT

ELECTRIC RELIABILITY
COUNCIL.....WESTERN SYSTEMS
                           COORDINATING COUNCIL

```

UTILITY
LICENSEE.....ARIZONA PUBLIC SERVICE

CORPORATE ADDRESS.....P.O. BOX 21666
PHOENIX, ARIZONA 85036

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUCTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V
IE RESIDENT INSPECTOR.....T. POLICH
LICENSING PROJ MANAGER.....E. LICITRA
DOCKET NUMBER.....50-529
LICENSE & DATE ISSUANCE...NPF-51, APRIL 24, 1986
PUBLIC DOCUMENT ROOM.....MS STEFANIE MORITZ
DOCUMENTS LIBRARIAN
PHOENIX PUBLIC LIBRARY
12 EAST MCDOWELL ROAD
PHOENIX, ARIZONA 85004

INSPECTION STATUS

INSPECTION SUMMARY

4 INSPECTION ON JANUARY 17 - MARCH 5, 1988 (REPORT NO. 50-529/83-02) AREAS INSPECTED: ROUTINE, ONSITE, REGULAR AND BACKSHIFT INSPECTION BY THE THREE RESIDENT INSPECTORS AND ONE REGIONALLY BASED INSPECTOR. AREAS INSPECTED INCLUDED: PREVIOUSLY IDENTIFIED ITEMS; REVIEW OF PLANT ACTIVITIES; PLANT TOURS; HOUSEKEEPING; ENGINEERED SAFETY FEATURE SYSTEM WALKDOWNS; SURVEILLANCE TESTING; PLANT MAINTENANCE; INOPERABLE CONTROL ELEMENT ASSEMBLY; INOPERABLE HIGH PRESSURE SAFETY INJECTION PUMPS DURING MODE 4; ESSENTIAL COOLING PUMP ROOM ALARMS; CONTROL ROOM ANNUNCIATORS; OPERATIONAL ERRORS; FUEL RECEIPT AND STORAGE; PREPARATION FOR REFUELING; REVIEW OF LICENSEE PROGRAMS FOR FOLLOWUP OF NRC INFORMATION NOTICES AND BULLETINS; NRC COMPLIANCE BULLETIN NUMBER 87-02; FASTENER TESTING TO DETERMINE CONFORMANCE WITH APPLICABLE MATERIAL SPECIFICATIONS; FOLLOWUP OF LICENSEE EVENT REPORTS; AND REVIEW OF PERIODIC AND SPECIAL REPORTS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: OF THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

INSPECTION ON MARCH 6 - APRIL 16, 1988 (REPORT NO. 529/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

* INSPECTION ON MARCH 21 - 25, 1988 (REPORT NO. 50-529/88-12) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR OF INSERVICE INSPECTION ACTIVITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

Report Period APR 1988

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

* PALO VERDE 2 *

INSPECTION SUMMARY

- + INSPECTION ON APRIL 4 - 8, 1988 (REPORT NO. 50-529/88-13) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON MAY 16 - 27, 1988 (REPORT NO. 50-529/88-14) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 17 - MAY 21, 1988 (REPORT NO. 529/88-15) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 4 - 20, 1988 (REPORT NO. 50-529/88-16) 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:

+ 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 UNIT SHUT DOWN FOR THE FIRST REFUELING OUTAGE ON FEBRUARY 10, 1988, AND IS PRESENTLY IN MODE 6.

LAST IE SITE INSPECTION DATE: 05/16 - 27/88+

INSPECTION REPORT NO: 50-529/88-14+

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: 50-530 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 720.0

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>720.0</u> | <u>2,736.0</u> | <u>2,736.0</u> |
| 13. Hours Reactor Critical | <u>720.0</u> | <u>2,736.0</u> | <u>2,736.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>720.0</u> | <u>2,736.0</u> | <u>2,736.0</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,543,723</u> | <u>10,131,635</u> | <u>10,131,635</u> |
| 18. Gross Elec Ener (MWH) | <u>894,800</u> | <u>3,576,800</u> | <u>3,576,800</u> |
| 19. Net Elec Ener (MWH) | <u>843,053</u> | <u>3,380,837</u> | <u>3,380,837</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>95.9</u> | <u>101.2</u> | <u>101.2</u> |
| 23. Unit Cap Factor (DER Net) | <u>92.2</u> | <u>97.3</u> | <u>97.3</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>.0</u> |

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

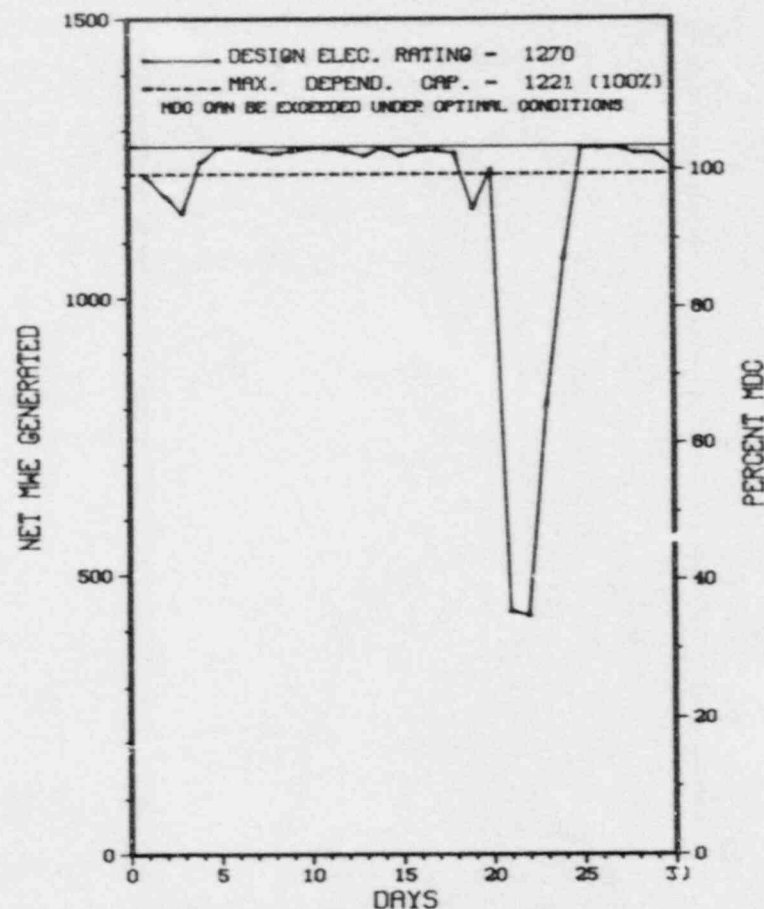
NONE

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

* PALO VERDE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * PALO VERDE 3 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 2 | 04/18/88 | S | 0.0 | B | 5 | | | | POWER REDUCTION TO 60% IN PREPARATION FOR FEEDWATER PUMP AND CONDENSER MAINTENANCE. |
| 3 | 04/21/88 | S | 0.0 | B | 5 | | | | POWER REDUCTION FOR FEEDWATER PUMP AND CONDENSER MAINTENANCE. |

 * SUMMARY *

 PALO VERDE INCURRED 2 SCHEDULED REDUCTIONS IN POWER IN APRIL.

| 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) |

Report Period APR 1988

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

* PALO VERDE 3 *

INSPECTION SUMMARY

- + INSPECTION ON APRIL 17 - MAY 21, 1988 (REPORT NO. 50-530/88-14) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 4 - 20, 1988 (REPORT NO. 50-530/88-15) 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:

NONE

LAST IE SITE INSPECTION DATE: 05/16 - 27/88+

INSPECTION REPORT NO: 50-530/88-13+

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: 50-277 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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.

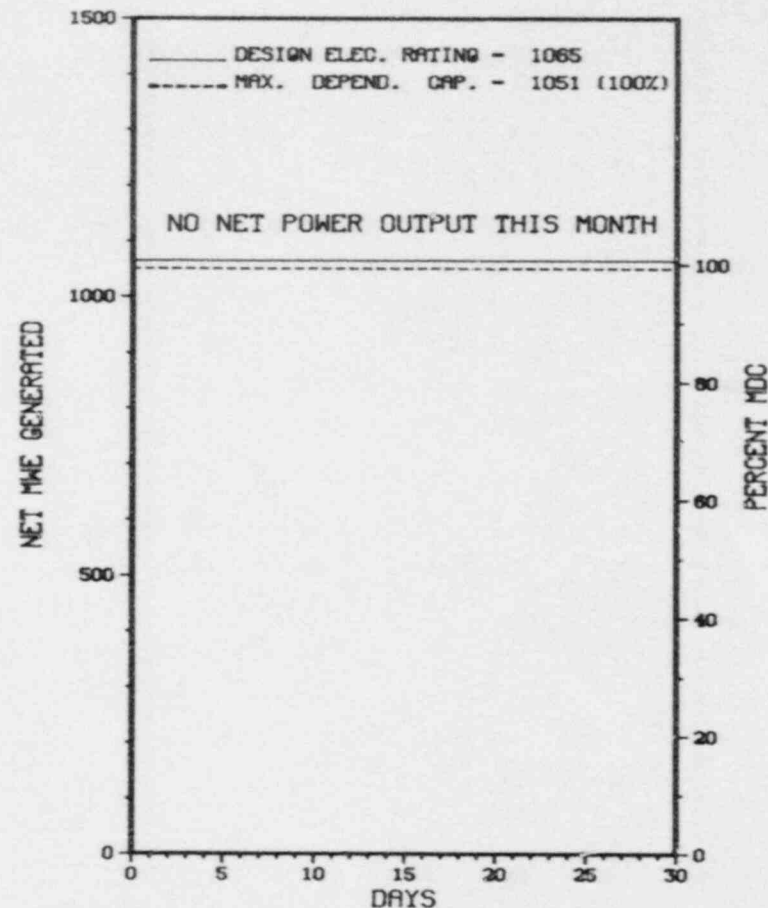
| | MONTH | YEAR | CUMULATIVE |
|---|---------------|----------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>121,175.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>.0</u> | <u>74,196.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>.0</u> | <u>.0</u> | <u>71,866.8</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>0</u> | <u>0</u> | <u>212,810,745</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>0</u> | <u>70,019,230</u> |
| 19. Net Elec Ener (MWH) | <u>-3,582</u> | <u>-16,709</u> | <u>67,024,407</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>.0</u> | <u>59.3</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>.0</u> | <u>59.3</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>.0</u> | <u>52.6</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>.0</u> | <u>51.9</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>14.6</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>12,304.0</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
<u>NONE</u> | | | |

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

* PEACH BOTTOM 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PEACH BOTTOM 2



APRIL 1988

Report Period APR 1988

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 | 719.0 | C | 4 | | RC | FUELXX | NRC REQUIRED SHUTDOWN. |

 * SUMMARY *

 PEACH BOTTOM 2 REMAINED SHUTDOWN IN APRIL IN ACCORDANCE
 WITH NRC ORDER, HOWEVER, CONTINUED RESTART ACTIVITIES.

| 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 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA
COUNTY.....YORK
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...19 MI S OF
LANCASTER, PA
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...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

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period APR 1988

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

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

1. Docket: 50-272 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: L. L. MIDDLETON (215) 841-6376

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>719.0</u> | <u>2,903.0</u> | <u>117,071.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>.0</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>.0</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>0</u> | <u>215,278,901</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>0</u> | <u>70,611,432</u> |
| 19. Net Elec Ener (MWH) | <u>-3,582</u> | <u>-16,709</u> | <u>67,685,442</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>.0</u> | <u>63.3</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>.0</u> | <u>63.3</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>.0</u> | <u>55.9</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>.0</u> | <u>54.3</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>13.3</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>11,372.7</u> |

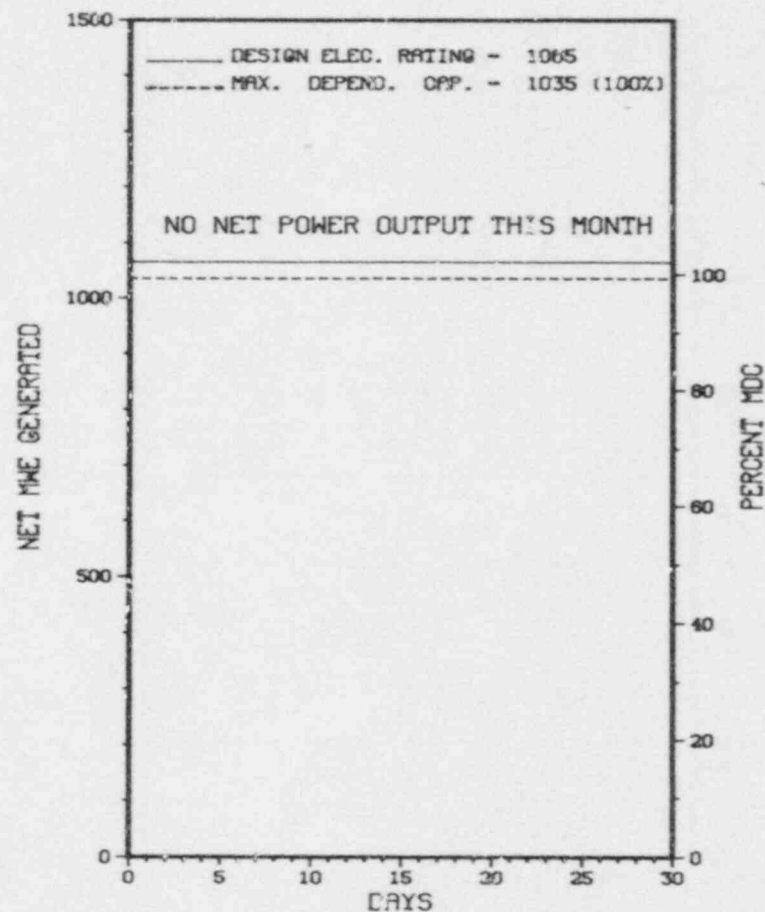
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* PEACH BOTTOM 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PEACH BOTTOM 3



APRIL 1988

Report Period APR 1988

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 | 719.0 | C | 4 | | RC | FUELXX | PIPE REPLACEMENT OUTAGE. |

 * SUMMARY *

 PEACH BOTTOM 3 REMAINED SHUTDOWN IN ACCORDANCE WITH NRC
 ORDER, HOWEVER, CONTINUED RESTART ACTIVITIES.

| Type | Reason | Method | System & Component |
|----------|--------------------------|--------------|-------------------------|
| F-Forced | A-Equip Failure | 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 *

FACILITY DATA

Report Period APR 1983

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

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period APR 1988

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 |
|--------------------|------------------|-------------------|---------|
| ----- | | | |
| 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: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: G. A. DUNN (216) 259-3737

4. Licensed Thermal Power (MWt): 3579

5. Nameplate Rating (Gross MWe): 1250

6. Design Electrical Rating (Net MWe): 1205

7. Maximum Dependable Capacity (Gross MWe): 1250

8. Maximum Dependable Capacity (Net MWe): 1205

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

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

11. Reasons for Restrictions, If Any:

NONE

| | MONTH | YEAR | CUMULATIVE |
|-----------------------------|------------------|------------------|------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>3,947.0</u> |
| 13. Hours Reactor Critical | <u>645.2</u> | <u>2,170.7</u> | <u>2,982.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>645.2</u> | <u>2,086.5</u> | <u>2,859.9</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,287,404</u> | <u>7,047,115</u> | <u>9,608,634</u> |
| 18. Gross Elec Ener (MWH) | <u>795,741</u> | <u>2,438,650</u> | <u>3,317,112</u> |
| 19. Net Elec Ener (MWH) | <u>756,550</u> | <u>2,304,733</u> | <u>3,133,217</u> |
| 20. Unit Service Factor | <u>89.7</u> | <u>71.9</u> | <u>72.5</u> |
| 21. Unit Avail Factor | <u>89.7</u> | <u>71.9</u> | <u>72.5</u> |
| 22. Unit Cap Factor (MDC %) | <u>87.3</u> | <u>65.9</u> | <u>65.9</u> |
| 23. Unit Cap Factor (DE %) | <u>87.3</u> | <u>65.9</u> | <u>65.9</u> |
| 24. Unit Forced Outage Rate | <u>10.3</u> | <u>8.4</u> | <u>13.9</u> |
| 25. Forced Outage Hours | <u>73.8</u> | <u>190.6</u> | <u>461.2</u> |

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

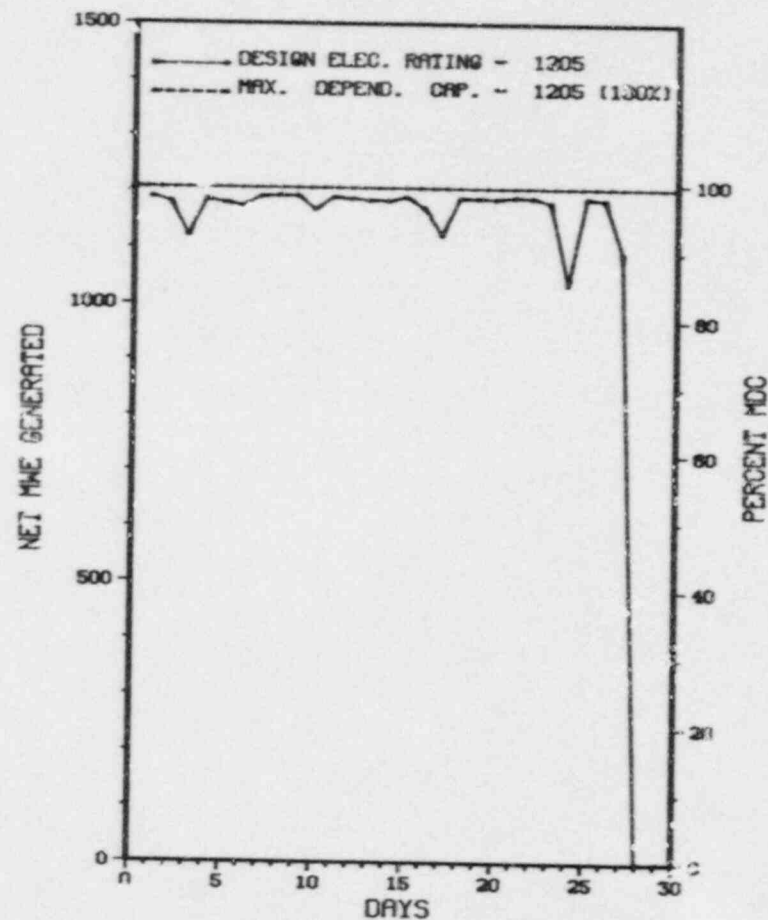
MAINTENANCE, OCTOBER, 1988, 10 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: 05/01/88

 * PERRY 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PERRY 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * PERRY 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-6 | 04/27/88 | F | 67.7 | G | 3 | 88012 | EI | SWGR | PERSONNEL ERROR DURING DC ELECTRICAL LINEUP CHANGES RESULTED IN A LOSS OF FEEDWATER, LEADING TO A REACTOR SCRAM ON LOW REACTOR WATER LEVEL. PLANT SYSTEMS RESPONDED AS DESIGNED, WATER LEVEL WAS RESTORED, AND THE PLANT WAS STABILIZED IN HOT SHUTDOWN. |
| 88-7 | 04/30/88 | F | 6.1 | H | 3 | 88015 | SB | ISV | A PROCEDURAL DEFICIENCY DURING REACTOR STARTUP RESULTED IN STEAM BYPASS VALVE OPERATION UPON OPENING MSIV'S, LEADING TO A REACTOR SCRAM ON LOW REACTOR WATER LEVEL. APPLICABLE OPERATING INSTRUCTIONS HAVE BEEN REVISED. |

 * SUMMARY *

 PERRY 1 INCURRED 2 FORCED OUTAGES IN APRIL 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 | | |

* PERRY 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....OHIO
COUNTY.....LAKE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...7 MI NE OF
PAINESVILLE, OHIO
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...JUNE 6, 1986
DATE ELEC ENER 1ST GENER...DECEMBER 19, 1986
DATE COMMERCIAL OPERATE...NOVEMBER 18, 1987
CONDENSER COOLING METHOD...CC HNDCT
CONDENSER COOLING WATER...LAKE ERIE
ELECTRIC RELIABILITY
COUNCIL.....EAST CENTRAL AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....CLEVELAND ELECTRIC ILLUMINATING
CORPORATE ADDRESS.....P.O. BOX 5000
CLEVELAND, OHIO 44101
CONTRACTOR
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....KAISER ENGINEERS
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
IE RESIDENT INSPECTOR.....K. CONNAUGHTON
LICENSING PROJ MANAGER.....T. COLBURN
DOCKET NUMBER.....50-440
LICENSE & DATE ISSUANCE...NPF-58, NOVEMBER 13, 1986
PUBLIC DOCUMENT ROOM.....PERRY PUBLIC LIBRARY
3753 MAIN ST.
PERRY, OH. 44081

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON JANUARY 11-15, JANUARY 25-29 AND FEBRUARY 9, 1988 (87025): Special, announced team inspection of licensee action regarding an allegation and maintenance activities, using selected portions of Inspection Procedures 62700, 62702, 62704 and 92720. In the areas inspected, one violation was identified concerning four specific examples of failure to follow maintenance and audit procedures. With the exceptions noted, the team concluded that overall maintenance was adequately accomplished, effective, and self assessed.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* PERRY 1 *

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

PLANT IS IN NORMAL OPERATION

LAST SITE INSPECTION DATE: 12/04/87

INSPECTION REPORT NO: 37027

REPORTS FROM LICENSEE

| ===== | | | |
|--------|------------------|-------------------|---|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| 58-11 | 040488 | 042988 | A MOMENTARY DECREASE OF THE DIESEL GENERATOR CONTROL TACHOMETER RESULTED IN AN UNEXPECTED START OF THE DIESEL GENERATOR BUILDING VENTILATION SYSTEM |
| ===== | | | |

1. Docket: 70-293 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>14,927.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>.0</u> | <u>79,773.7</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>57.2</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>.0</u> | <u>57.2</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>.0</u> | <u>48.3</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>.0</u> | <u>49.4</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):

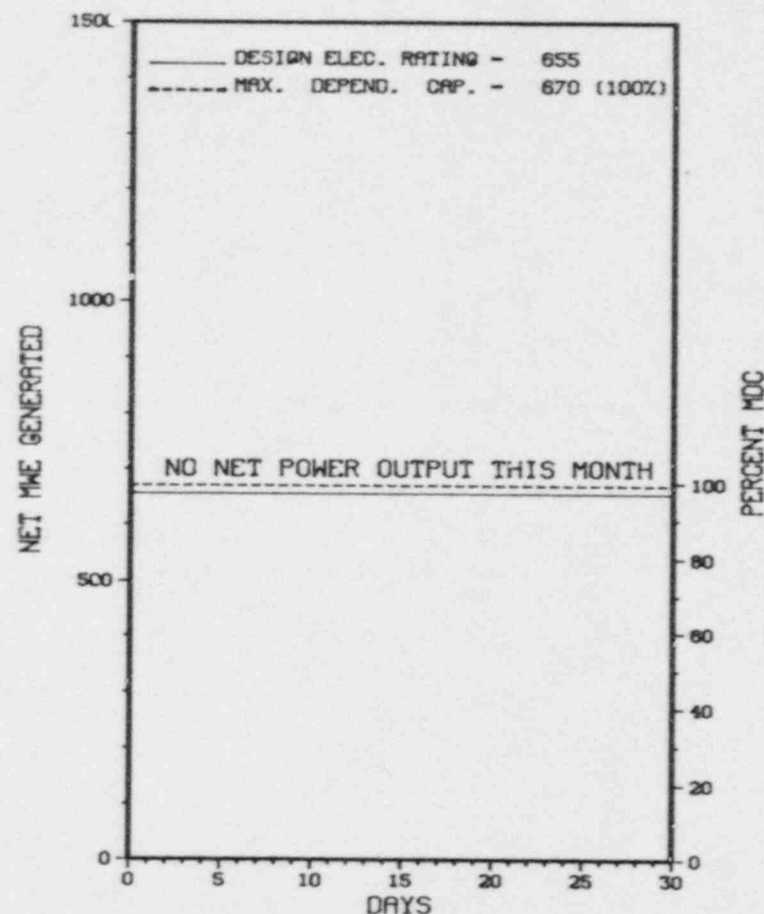
NONE

27. If Currently Shutdown Estimated Startup Date: 08/01/88

* PILGRIM 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PILGRIM 1



APRIL 1988

Report Period APR 1988

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 | 719.0 | C | 4 | | | | SHUTDOWN FOR RFO 7. |

* SUMMARY *

PILGRIM 1 REMAINED SHUTDOWN 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) |

 * FILGRIM 1 *

FACILITY DATA

Report Period APR 1988

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 50.49(E)(1) REQUIRES FOR SAFETY RELATED ELECTRICAL EQUIPMENT LOCATED IN AN HARSH EMIRONMENT THAT THE MOST SEVERE DESIGN BASIS TIME DEPENDENT TEMPERATURE BE ESTABLISHED AND THAT THE EQUIPMENT BE QUALIFIED FOR THE MOST SEVERE DESIGN BASIS TEMPERATURE CONDITION. CONTRARY TO THE ABOVE AS OF AUGUST 20, 1987, THE MOST SEVERE DESIGN BASIS TIME DEPENDENT TEMPERATURE HAD NOT BEEN ESTABLISHED FOR THE FOLLOWING ELECTRICAL EQUIPMENT IN THE DRYWELL: SOLENOID VALVE SV-220-44 AND CABLE SPICE ASSEMBLIES Q102A, Q102B, Q203A AND Q103B. IT HAD BEEN ESTABLISHED ONLY THAT THE ABOVE DEVICES WERE QUALIFIED FOR A LARGE BREAK LOSS OF COOLANT ACCIDENT UP TO 290 DEGREES F. THIS TEMPERATURE WAS 30 DEGREES F LOWER THAN THE TEMPERATURE PROFILE FOR A SMALL BREAK LOCA TO WHICH DRYWELL EQUIPMENT WOULD BE SUBJECTED, SUBSEQUENT TO THE INSPECTION, IT WAS DETERMINED THAT THESE DEVICES WERE ACTUALLY QUALIFIED TO THE MOST SEVERE TEMPERATURE PROFILE.
 (8703 4)

OTHER ITEMS

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                PILGRIM 1                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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SYSTEMS AND COMPONENTS:

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

| |
|------|
| 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 | 0.61 | 0.62 | 0.63 | 0.64 | 0.65 | 0.66 | 0.67 | 0.68 | 0.69 | 0.70 | 0.71 | 0.72 | 0.73 | 0.74 | 0.75 | 0.76 | 0.77 | 0.78 | 0.79 | 0.80 | 0.81 | 0.82 | 0.83 | 0.84 | 0.85 | 0.86 | 0.87 | 0.88 | 0.89 | 0.90 | 0.91 | 0.92 | 0.93 | 0.94 | 0.95 | 0.96 | 0.97 | 0.98 | 0.99 | 1.00 |
|------|

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

NO INPUT PROVIDED.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|-----|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 5 |
|---|---|---|---|---|---|---|---|---|-----|---|

1. Docket: 50-266 OPERATING STATUS

2. Reporting Period: 04/01/80 Outage + On-line Hrs: 719.0

3. Utility Contact: C. W. KRAUSE (414) 221-2001

4. Licensed Thermal Power (MWh): 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>719.0</u> | <u>2,903.0</u> | <u>153,263.0</u> |
| 13. Hours Reactor Critical | <u>195.4</u> | <u>2,379.4</u> | <u>125,147.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>652.7</u> |
| 15. Hrs Generator On-Line | <u>193.4</u> | <u>2,377.4</u> | <u>122,422.1</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>837.3</u> |
| 17. Gross Therm Ener (MWH) | <u>270,238</u> | <u>3,580,507</u> | <u>169,207,561</u> |
| 18. Gross Elec Ener (MWH) | <u>91,980</u> | <u>1,224,730</u> | <u>57,048,080</u> |
| 19. Net Elec Ener (MWH) | <u>86,164</u> | <u>1,172,729</u> | <u>54,341,157</u> |
| 20. Unit Service Factor | <u>26.9</u> | <u>81.9</u> | <u>79.9</u> |
| 21. Unit Avail Factor | <u>26.9</u> | <u>81.9</u> | <u>80.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>24.7</u> | <u>83.3</u> | <u>72.6*</u> |
| 23. Unit Cap Factor (DER Net) | <u>24.1</u> | <u>81.3</u> | <u>71.3</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>2.1</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>2,464.3</u> |

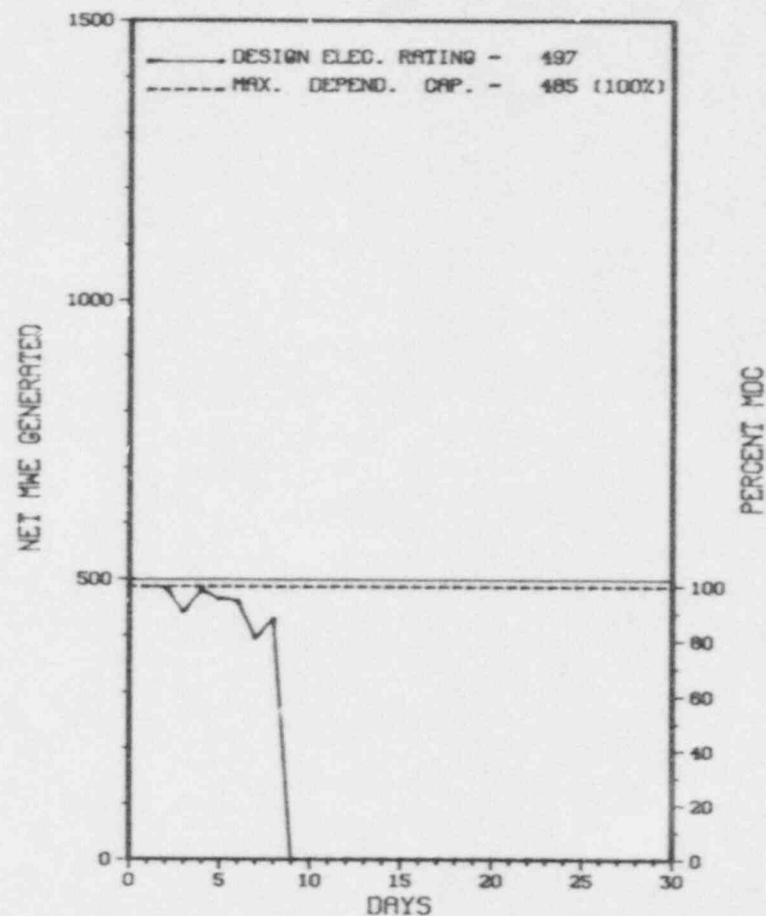
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 05/21/80

* POINT BEACH 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

POINT BEACH 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * POINT BEACH 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 1 | 04/09/88 | S | 525.6 | C | 1 | | ZZ | ZZZZZZ | SHUTDOWN FOR ANNUAL REFUELING AND MAINTENANCE. |

 * SUMMARY *

POINT BEACH 1 SHUTDOWN ON APRIL 9 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 (WU-EG-0161) |

 * POINT BEACH 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....WISCONSIN
 COUNTY.....MANITOWOC
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...15 MI N OF
 MANITOWOC, WISC
 TYPE OF REACTOR.....PWR
 DATE INITIAL CRITICALITY...NOVEMBER 2, 1970
 DATE ELEC ENER 1ST 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 MANN PUBLIC LIBRARY
 1516 16TH ST.
 TWO RIVERS, WISCONSIN 54241

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON MARCH 7-11, 1988 (88007; 88007): ROUTINE, UNANNOUNCED inspection of the following areas of the Point Beach Nuclear Power Plant emergency preparedness program: action on previous Open Items; activations of the licensee's Emergency Plan; LER Review; operational status of the emergency preparedness program; emergency detection and classification; protective action decisionmaking; notifications and communications; shift staffing and augmentation; knowledge and performance of Duties (training); licensee audits; and handling of Information Notice 87-58. This inspection involved two NRC inspectors. No violations, deficiencies or deviations were identified.

INSPECTION ON FEBRUARY 1, 1988 THROUGH MARCH 15, 1988 (88006; 88006): ROUTINE UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF LICENSEE ACTION ON previous inspection findings; temporary instructions; operational safety; maintenance; surveillance; physical security; radiological protection; bulletin followup; spent fuel pit activities; and licensee event report follow-up. No violations or deviations were identified.

INSPECTION ON MARCH 21 THROUGH 31, 1988 (88008; 88008): MANAGEMENT Effectiveness; Security Organization; Records and Reports; Testing and Maintenance; Physical Barriers - Protected and Vital Areas; Compensatory Measures; Assessment Aids; Access Control - Personnel, Packages and Vehicles; Detection Aids - Protected Areas; Alarm Stations, Training and Qualification; Safeguards Contingency Plan; Licensee action on previous inspection findings and a review of the circumstances surrounding the degraded security barrier

Report Period APR 1988

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

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* POINT BEACH 1 *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 03/31/88

INSPECTION REPORT NO: 88008

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: 50-301 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>138,048.0</u> |
| 13. Hours Reactor Critical | <u>699.6</u> | <u>2,883.6</u> | <u>121,278.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>1.1</u> | <u>1.1</u> | <u>216.1</u> |
| 15. Hrs Generator On-Line | <u>656.2</u> | <u>2,840.2</u> | <u>119,310.3</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>5.0</u> | <u>5.0</u> | <u>297.4</u> |
| 17. Gross Therm Ener (MWH) | <u>949,345</u> | <u>4,255,442</u> | <u>168,826,037</u> |
| 18. Gross Elec Ener (MWH) | <u>323,700</u> | <u>1,457,430</u> | <u>57,237,650</u> |
| 19. Net Elec Ener (MWH) | <u>307,901</u> | <u>1,393,482</u> | <u>54,537,896</u> |
| 20. Unit Service Factor | <u>91.3</u> | <u>97.8</u> | <u>86.4</u> |
| 21. Unit Avail Factor | <u>92.0</u> | <u>98.0</u> | <u>86.6</u> |
| 22. Uni Cap Factor (MDC Net) | <u>88.3</u> | <u>99.0</u> | <u>80.6*</u> |
| 23. Unit Cap Factor (DER Net) | <u>86.2</u> | <u>96.6</u> | <u>79.5</u> |
| 24. Unit Forced Outage Rate | <u>3.5</u> | <u>.8</u> | <u>1.2</u> |
| 25. Forced Outage Hours | <u>23.6</u> | <u>23.6</u> | <u>874.8</u> |

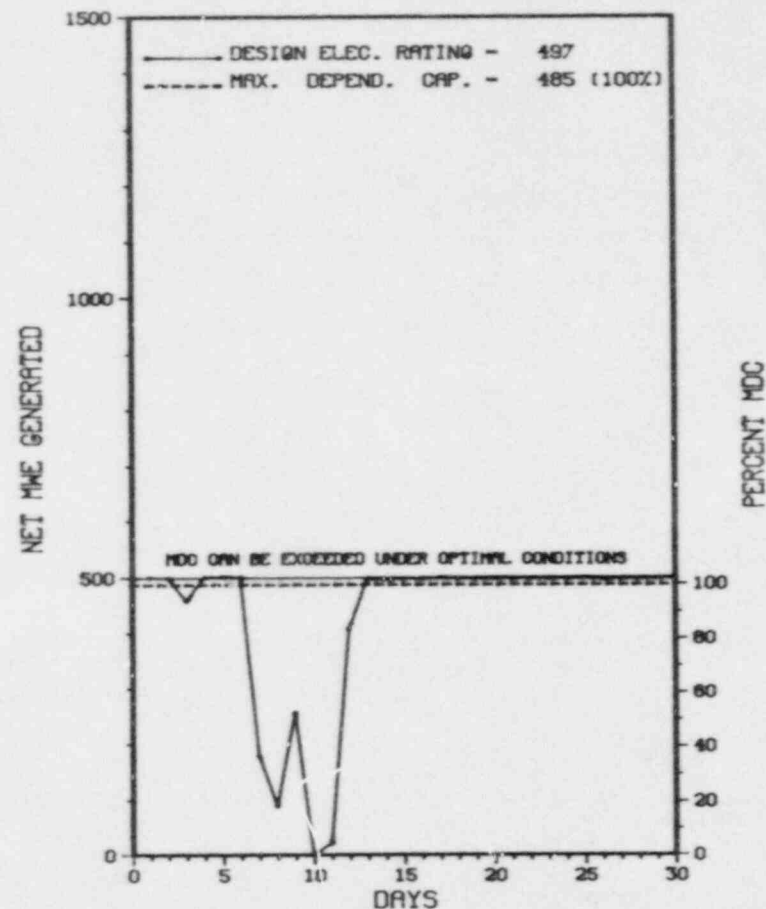
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING/MAINT-SEPTEMBER 30, 1988- 6 WEEK DURATION.

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

 * POINT BEACH 2 *

 AVERAGE DAILY POWER LEVEL (MWe) PLOT

POINT BEACH 2



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* POINT BEACH 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 1 | 04/07/88 | F | 23.6 | A | 3 | LER 88-001 | ED | INSTRU | WHILE SHIFTING INSTRUMENT POWER SUPPLIES, TWO INVERTERS TEMPORARILY OPERATED IN PARALLEL DUE TO INADEQUATE MECHANICAL LINKAGE. IMMEDIATE CORRECTIVE ACTION INCLUDED THE POSTING OF AN OPERATOR AID. |
| 2 | 04/10/88 | S | 39.2 | B | 1 | | CH | VALVEX | SEPARATION BETWEEN THE VALVE STEM AND DISK OCCURRED ON A MAIN FEED PUMP DISCHARGE VALVE. THE UNIT WAS TAKEN OFF LINE WHILE REPAIRS WERE MADE. |

* SUMMARY *

POINT BEACH 2 INCURRED 2 POWER OUTAGES IN APRIL 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) |

 * POINT BEACH 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....WISCONSIN
 COUNTY.....MANITOWOC
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...15 MI N OF
 MANITOWOC, WISC
 TYPE OF REACTOR.....PWR
 DATE INITIAL CRITICALITY...MAY 30, 1972
 DATE ELEC ENER 1ST GENER...AUGUST 2, 1972
 DATE COMMERCIAL OPERATE...OCTOBER 1, 1972
 CONDENSER COOLING METHOD...ONCE THRU
 CONDENSER COOLING WATER...LAKE MICHIGAN
 ELECTRIC RELIABILITY
 COUNCIL.....MID-AMERICA
 INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

UTILITY
 LICENSEE.....WISCONSIN ELECTRIC POWER COMPANY
 CORPORATE ADDRESS.....231 WEST MICHIGAN STREET
 MILWAUKEE, WISCONSIN 53201
 CONTRACTOR
 ARCHITECT/ENGINEER.....BECHTEL
 NUC STEAM SYS SUPPLIER...WESTINGHOUSE
 CONSTRUCTOR.....BECHTEL
 TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
 IE RESIDENT INSPECTOR.....R. HAGUE
 LICENSING PROJ MANAGER.....D. WAGNER
 DOCKET NUMBER.....50-301
 LICENSE & DATE ISSUANCE....DPR-27, MARCH 8, 1973
 PUBLIC DOCUMENT ROOM.....JOSEPH MANN PUBLIC LIBRARY
 1516 16TH ST.
 TWO RIVERS, WISCONSIN 54241

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON MARCH 7-11, 1988 (88007; 88007): ROUTINE, UNANNOUNCED inspection of the following areas of the Point Beach Nuclear Power Plant emergency preparedness program: action on previous Open Items; activations of the licensee's Emergency Plan; LER Review; operational status of the emergency preparedness program; emergency detection and classification; protective action decisionmaking; notifications and communications; shift staffing and augmentation; knowledge and performance of duties (training); licensee audits; and handling of Information Notice 87-58. This inspection involved two NRC inspectors. No violations, deficiencies or deviations were identified. INSPECTION FROM FEBRUARY 1, 1988 THROUGH MARCH 15, 1988 (88006; 88006): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF LICENSEE ACTION ON previous inspection findings; temporary instructions; operational safety; maintenance; surveillance; physical security; radiological protection; bulletin followup; spent fuel pit activities; and licensee event report follow-up. No violations or deviations were identified.

INSPECTION ON MARCH 21 THROUGH 31, 1988 (88008; 88008): MANAGEMENT Effectiveness; Security Organization; Records and Reports; Testing and Maintenance; Physical Barriers - Protected and Vital Areas; Compensatory Measures; Assessment Aids; Access Control - Personnel, Packages and Vehicles; Detection Aids - Protected Areas; Alarm Stations, Training and Qualification; Safeguards Contingency Plan; licensee action on previous inspection findings and a review of the circumstances surrounding the degraded security barrier

Report Period APR 1988

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

* POINT BEACH 2 *

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 03/31/88

INSPECTION REPORT NO: 88008

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: 50-282 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>125,999.0</u> |
| 13. Hours Reactor Critical | <u>715.0</u> | <u>2,821.4</u> | <u>105,364.6</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>5,571.1</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,817.8</u> | <u>103,925.8</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,177,831</u> | <u>4,562,258</u> | <u>163,616,182</u> |
| 18. Gross Elec Ener (MWH) | <u>386,410</u> | <u>1,528,110</u> | <u>53,602,120</u> |
| 19. Net Elec Ener (MWH) | <u>363,129</u> | <u>1,446,728</u> | <u>50,284,393</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>97.1</u> | <u>32.5</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>97.1</u> | <u>82.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.4</u> | <u>99.1</u> | <u>79.3</u> |
| 23. Unit Cap Factor (DER Net) | <u>95.3</u> | <u>94.0</u> | <u>75.3</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>6.6</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>3,715.2</u> |

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

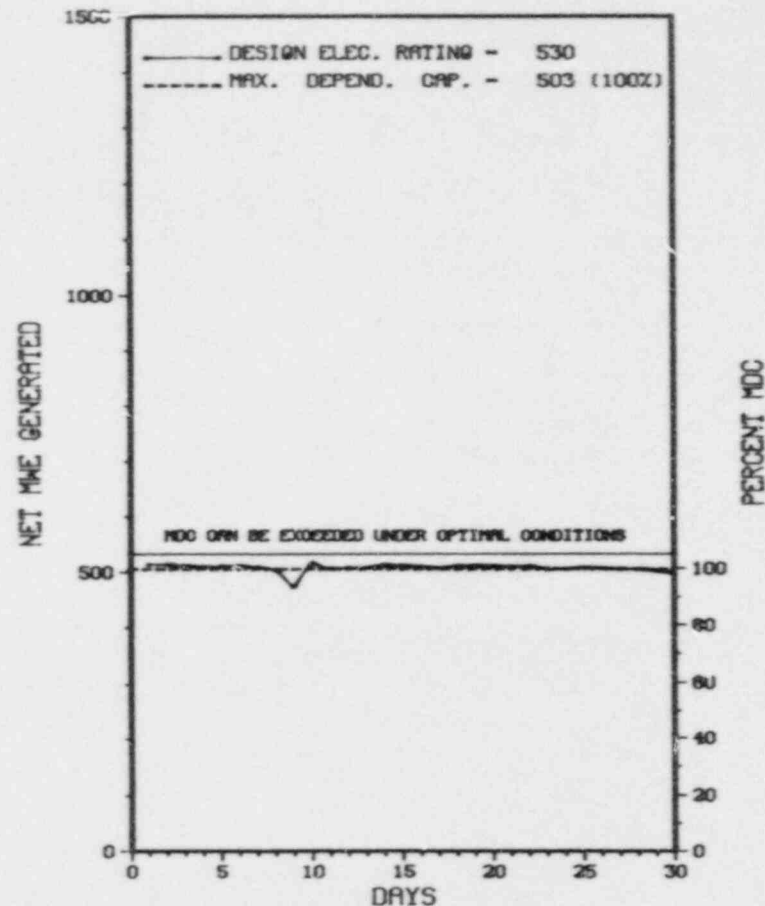
REFUELING - AUGUST 24, 1988.

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

* PRAIRIE ISLAND 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PRAIRIE ISLAND 1



APRIL 1988

Report Period APR 198*

UNIT SHUTDOWNS / REDUCTIONS

* PRAIRIE ISLAND 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 1 | 04/09/88 | S | 0.0 | B | 5 | | | | TURBINE VALVES TESTING. |

* SUMMARY *

PRAIRIE ISLAND 1 INCURRED 1 POWER REDUCTION IN APRIL 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) |

* PRAIRIE ISLAND 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MINNESOTA
COUNTY.....GOODHUE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...28 MI SE OF
MINNEAPOLIS, MINN
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...DECEMBER 1, 1973
DATE ELEC ENER 1ST GENER...DECEMBER 4, 1973
DATE COMMERCIAL OPERATE...DECEMBER 16, 1973
CONDENSER COOLING METHOD...COOLING TOWERS
CONDENSER COOLING WATER...MISSISSIPPI RIVER
ELECTRIC RELIABILITY
COUNCIL.....MID-CONTINENT AREA
RELIABILITY COORDINATION
AGREEMENT

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NORTHERN STATES POWER
CORPORATE ADDRESS.....414 NICOLLET MALL
MINNEAPOLIS, MINNESOTA 55401
CONTRACTOR
ARCHITECT/ENGINEER.....FLUOR PIONEER, INC.
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....NORTHERN STATES POWER COMPANY
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
IE RESIDENT INSPECTOR.....J. HARD
LICENSING PROJ MANAGER.....D. DIANNI
DOCKET NUMBER.....50-282
LICENSE & DATE ISSUANCE...DPR-42, APRIL 5, 1974
PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY
MINNEAPOLIS PUBLIC LIBRARY
300 NICOLLET MALL
MINNEAPOLIS, MINNESOTA 55401

INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

Report Period APR 1988

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

* PRAIRIE ISLAND 1 *

OTHER ITEMS

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATED AT POWER TILL MARCH 10, 1988 TO REPAIR A LEAKING CANOPY SEAL WELD ON A REACTOR HEAD INSTRUMENT COLUMN. RESUMED POWER OPERATIONS ON MARCH 14, 1988 AND CONTINUED THRU THE END OF THE MONTH.

LAST IE SITE INSPECTION DATE: 04/02/88

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 |
|--------|------------------|-------------------|---------|
| ----- | | | |
| ===== | | | |

1. Docket: 50-306 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: DALE DUGSTAD (612) 388-1121

4. Licensed Thermal Power (MWt): 1650

5. Nameplate Rating (Gross MWe): 659 $\times 0.9 = 593$

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 | 719.0 | 2,903.0 | 117,117.0 |
| 13. Hours Reactor Critical | 719.0 | 2,004.7 | 102,239.7 |
| 14. Rx Reserve Shtdwn Hrs | .0 | .0 | 1,516.1 |
| 15. Hrs Generator On-Line | 719.0 | 1,985.2 | 101,180.0 |
| 16. Unit Reserve Shtdwn Hrs | .0 | .0 | .0 |
| 17. Gross Therm Ener (MWH) | 1,167,617 | 3,136,207 | 159,282,284 |
| 18. Gross Elec Ener (MWH) | 380,710 | 1,030,360 | 51,862,690 |
| 19. Net Elec Ener (MWH) | 358,475 | 972,202 | 48,751,625 |
| 20. Unit Service Factor | 100.0 | 68.4 | 86.4 |
| 21. Unit Avail Factor | 100.0 | 68.4 | 86.4 |
| 22. Unit Cap Factor (MDC Net) | 99.7 | 67.0 | 83.3 |
| 23. Unit Cap Factor (DER Net) | 94.1 | 63.2 | 78.5 |
| 24. Unit Forced Outage Rate | .0 | .1 | 3.1 |
| 25. Forced Outage Hours | .0 | 1.1 | 3,360.1 |

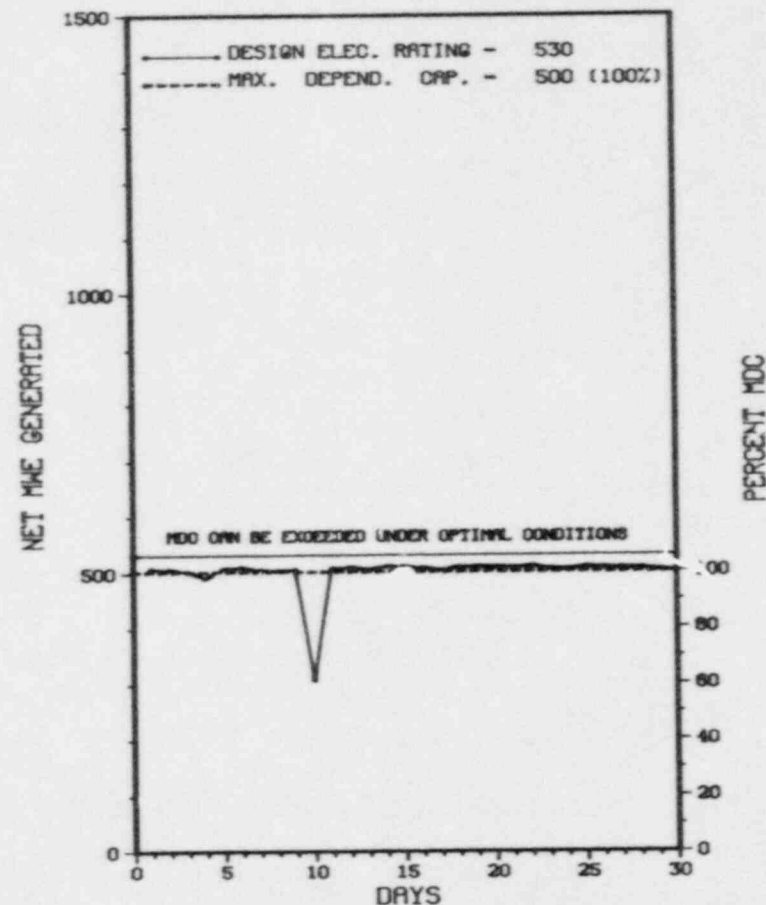
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* PRAIRIE ISLAND 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PRAIRIE ISLAND 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* PRAIRIE ISLAND 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|--------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-04- | 04/04/88 | S | 0.0 | F | 5 | | | | LOAD FOLLOW. |
| 880410 | 04/10/88 | S | 0.0 | B | 5 | | | | TURBINE VALVES TESTING AND 22 FEEDWATER PUMP WORK. |

* SUMMARY *

PRAIRIE ISLAND 2 INCURRED 2 POWER REDUCTIONS IN APRIL 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)

* PRAIRIE ISLAND 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MINNESOTA
COUNTY.....GOODHUE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...28 MI SE OF
MINNEAPOLIS, MINN
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...DECEMBER 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

Inspection on February 14 through April 2, 1988 (88004; 88004): Routine unannounced inspection by resident inspectors of previous inspection findings, plant operational safety, maintenance, surveillances, ESF systems, LER followup, compliance bulletin followup, information notice followup, closeout of instructions, meetings with corporate management, and meetings with public officials. Of the ten areas inspected, one violation was identified; however, in accordance with 10 CFR 2, Appendix C, Section V.A., a Notice of Violation was not issued (failure to follow procedures).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

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

* PRAIRIE ISLAND 2 *

OTHER ITEMS

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATED CONTINUALLY THROUGHOUT MONTH.

LAST IE SITE INSPECTION DATE: 04/02/88

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 |
|--------|------------------|-------------------|---------|
| ----- | | | |
| NONE | | | |

=====

1. Docket: 50-254 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: K.A. SCHMIDT (309) 654-2241 X2147

4. Licensed Thermal Power (MWh): 2511

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

6. Design Electrical Rating (Net MWe): 789

7. Maximum Dependable Capacity (Gross MWe): 813

8. Maximum Dependable Capacity (Net MWe): 769

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

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

11. Reasons for Restrictions, If Any: NONE

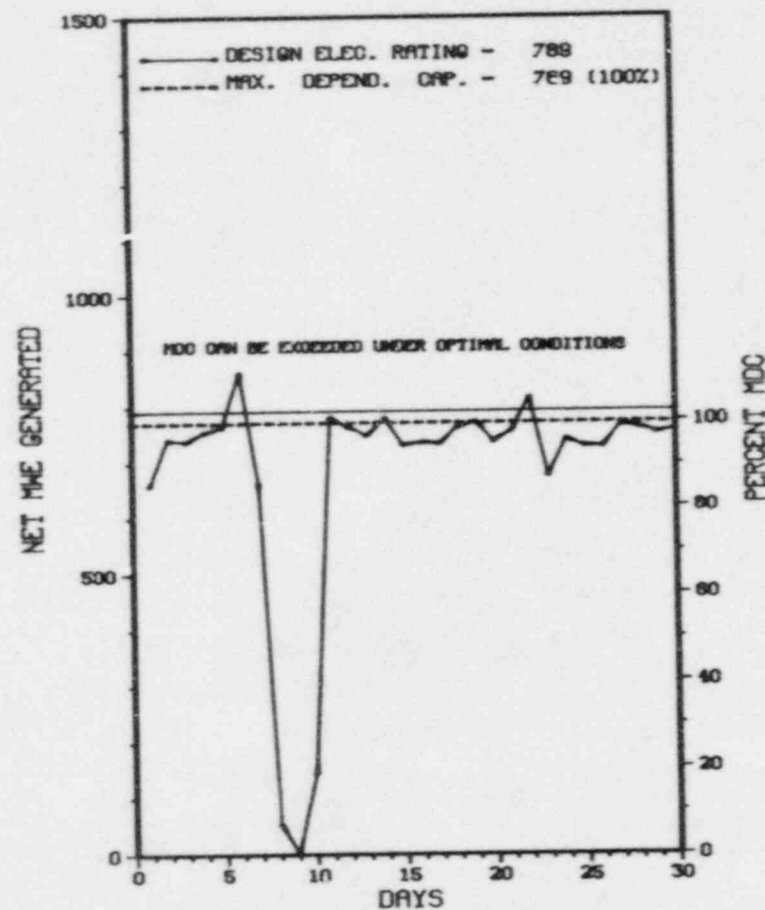
| | MONTH | YEAR | CUMULATIVE |
|--|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>139,991.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>111,967.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>3,421.9</u> |
| 15. Hrs Generator On-Line | <u>659.2</u> | <u>2,836.3</u> | <u>108,293.8</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>909.2</u> |
| 17. Gross Therm Ener (MWH) | <u>1,576,514</u> | <u>6,769,569</u> | <u>230,110,326</u> |
| 18. Gross Elec Ener (MWH) | <u>510,823</u> | <u>2,210,059</u> | <u>74,635,677</u> |
| 19. Net Elec Ener (MWH) | <u>486,946</u> | <u>2,112,685</u> | <u>70,016,755</u> |
| 20. Unit Service Factor | <u>91.7</u> | <u>97.7</u> | <u>77.4</u> |
| 21. Unit Avail Factor | <u>91.7</u> | <u>97.7</u> | <u>78.0</u> |
| 22. Unit Cap Factor (MDC Net) | <u>88.1</u> | <u>94.6</u> | <u>65.0</u> |
| 23. Unit Cap Factor (DER Net) | <u>85.8</u> | <u>92.2</u> | <u>63.4</u> |
| 24. Unit Forced Outage Rate | <u>8.3</u> | <u>2.3</u> | <u>5.1</u> |
| 25. Forced Outage Hours | <u>59.8</u> | <u>66.7</u> | <u>3,503.1</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |

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



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

***** QUAD CITIES 1 *****
 * QUAD CITIES 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-3 | 04/08/88 | F | 59.8 | A | 9 | | HE | PIPEXX | MANUALLY TRIPPED TURBINE DUE TO EHC LINE OIL LEAK - UNIT REMAINED IN STARTUP/HOT STANDBY. |

 * SUMMARY *

 QUAD CITIES 1 INCURRED 1 OUTAGE IN APRIL 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) |

* QUAD CITIES 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS

COUNTY.....ROCK ISLAND

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...20 MI NE OF
MOLINE, ILL

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...OCTOBER 18, 1971

DATE ELFC ENER 1ST GENER...APRIL 12, 1972

DATE COMMERCIAL OPERATION...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 MARCH 15-17, 1988 (88006; 88007): SPECIAL, ANNOUNCED FOLLOWUP inspection on the following areas of the emergency preparedness program: licensee actions on previously-identified items; emergency plan activations; review of licensee initiatives to improve the program following the November 1987 routine inspection; and operational status of the program. The inspection involved one NRC inspector. No violations of NRC requirements were identified.

INSPECTION ON FEBRUARY 7 THROUGH APRIL 2, 1988 (88004; 88004): ROUTINE, unannounced resident inspection of Operation, Maintenance, surveillance, LER Review, Routine Reports, Temporary Instructions, Administrative Controls Affecting Quality, Radiation Control, and Outages. In the 9 areas inspected, no violations or deviations were identified in 8 areas; one violation was identified in the remaining area (failure to perform a surveillance within the required time interval); however, in accordance with 10 CFR 2 Appendix C, Section V.G.1, a Notice of Violation was not issued. This violation was of minor safety significance.

INSPECTION FROM SEPTEMBER 14, 1987 THROUGH MARCH 4, 1988 (87028; 87028): Special safety inspection of snubber surveillance and functional testing (70370), non-licensed training (41400) and licensee action on previously identified items (92700). Two apparent violations were identified (failure to accomplish activities in accordance with documented drawings; inadequate design control).

Report Period APR 1988

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

X QUAD CITIES 1 X

ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATION 6.2 REQUIRES THAT PROCEDURES BE ADHERED TO DURING PREVENTATIVE AND CORRECTIVE MAINTENANCE OPERATIONS. CONTRARY TO THE ABOVE, STATION PROCEDURE QIP 5700-2, "FILLING PROCEDURE FOR THE CHLORINE ANALYZER PROBE," WHICH CAUTIONS THAT A CONTROL ROOM ISOLATION WILL OCCUR DURING THIS PROCEDURE AND THAT THE CONTROL ROOM SHOULD BE NOTIFIED, WAS NOT FOLLOWED ON FEBRUARY 1, 1988, RESULTING IN AN UNEXPECTED ESF ACTUATION.
(8703 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

CURRENTLY SHUTDOWN ON 5/7 FOR DUAL UNIT OUTAGE EXPECTED TO END 5/16/88.

LAST IE SITE INSPECTION DATE: 04/08/88

INSPECTION REPORT NO: 88008

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

=====

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---|
| 88-06 | 032588 | 041288 | MISSED TECHNICAL SPECIFICATIONS REQUIRED SURVEILLANCE DUE TO SCHEDULING LAPS |
| 88-08 | 040888 | 042688 | GROUP I ISOLATION IN STARTUP/HOT STANDBY MODE CAUSED BY REACTOR MODE SWITCH ROTATIONAL PLAY |

=====

1. Docket: 59-265 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>139,101.0</u> |
| 13. Hours Reactor Critical | <u>228.9</u> | <u>2,289.8</u> | <u>106,947.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>2,985.8</u> |
| 15. Hrs Generator On-Line | <u>228.4</u> | <u>2,261.9</u> | <u>103,797.3</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>702.9</u> |
| 17. Gross Therm Ener (MWH) | <u>490,072</u> | <u>5,138,743</u> | <u>222,509,310</u> |
| 18. Gross Elec Ener (MWH) | <u>162,610</u> | <u>1,669,730</u> | <u>71,227,504</u> |
| 19. Net Elec Ener (MWH) | <u>154,454</u> | <u>1,599,345</u> | <u>67,150,776</u> |
| 20. Unit Service Factor | <u>31.8</u> | <u>77.9</u> | <u>74.6</u> |
| 21. Unit Avail Factor | <u>31.8</u> | <u>77.9</u> | <u>75.1</u> |
| 22. Unit Cap Factor (MDC Net) | <u>27.9</u> | <u>71.6</u> | <u>62.8</u> |
| 23. Unit Cap Factor (DER Net) | <u>27.2</u> | <u>69.8</u> | <u>61.2</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>6.2</u> | <u>8.2</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>150.5</u> | <u>5,433.7</u> |

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

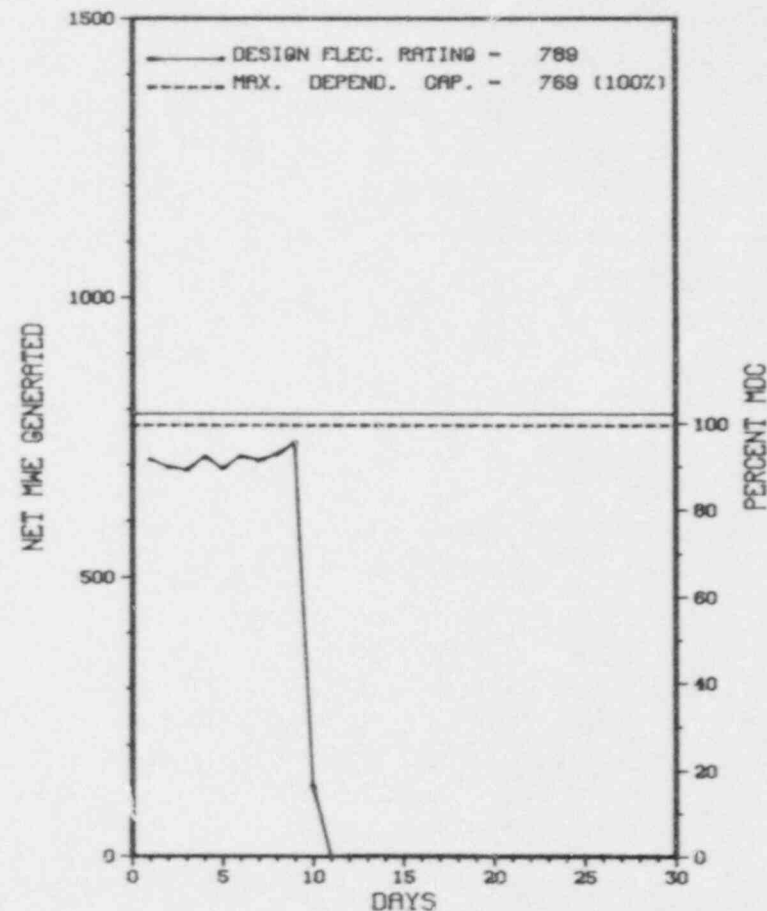
NONE

27. If Currently Shutdown Estimated Startup Date: 06/18/88

 X Q U A D C I T I E S 2 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT

Q U A D C I T I E S 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * QUAD CITIES 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-5 | 04/10/88 | S | 490.6 | C | 1 | | RC | FUELXX | END OF CYCLE NINE REFUELING OUTAGE. |

 * SUMMARY *

 QUAD CITIES 2 COMMENCED REFUELING OUTAGE IN APRIL.

| 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) |

 * QUAD CITIES 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....ILLINOIS
 COUNTY.....ROCK ISLAND
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...20 MI NE OF
 MOLINE, ILL
 TYPE OF REACTOR.....BWR
 DATE INITIAL CRITICALITY...APRIL 26, 1972
 DATE ELEC ENER 1ST GENER...MAY 23, 1972
 DATE COMMERCIAL OPERATE...MARCH 10, 1973
 CONDENSER COOLING METHOD...ONCE THRU
 CONDENSER COOLING WATER...MISSISSIPPI RIVER
 ELECTRIC RELIABILITY
 COUNCIL.....MID-AMERICA
 INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
 IE RESIDENT INSPECTOR.....A. MADISON
 LICENSING PROJ MANAGER....T. ROSS
 DOCKET NUMBER.....50-265
 LICENSE & DATE ISSUANCE...DPR-30, DECEMBER 14, 1972
 PUBLIC DOCUMENT ROOM.....DIXON PUBLIC LIBRARY
 221 HENNEPIN AVENUE
 DIXON, ILLINOIS 61021

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

INSPECTION SUMMARY

INSPECTION ON MARCH 15-17, 1988 (88006; 88007): SPECIAL, ANNOUNCED FOLLOWUP inspection on the following areas of the emergency preparedness program: licensee actions on previously-identified items; emergency plan activations; review of licensee initiatives to improve the program following the November 1987 routine inspection; and operational status of the program. The inspection involved one NRC inspector. No violations of NRC requirements were identified.

INSPECTION ON FEBRUARY 7 THROUGH APRIL 2, 1988 (88004; 88004): ROUTINE, unannounced resident inspection of Operation, Maintenance, surveillance, LER Review, Routine Reports, Temporary Instructions, Administrative Controls Affecting Quality, Radiation Control, and Outages. In the 9 areas inspected, no violations or deviations were identified in 8 areas; one violation was identified in the remaining area (failure to perform a surveillance within the required time interval); however, in accordance with 10 CFR 2 Appendix C, Section V.G.1, a Notice of Violation was not issued. This violation was of minor safety significance.

INSPECTION FROM SEPTEMBER 14, 1987 THROUGH MARCH 4, 1988 (87028; 87028): Special safety inspection of snubber surveillance and functional testing (70370), non-licensed training (41400) and licensee action on previously identified items (92700). Two apparent violations were identified (failure to accomplish activities in accordance with documented drawings; inadequate design control).

Report Period APR 1988

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

* QUAD CITIES 2 *

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT S/D FOR REFUELING ON 4/10/88.

LAST IE SITE INSPECTION DATE: 04/08/88

INSPECTION REPORT NO: 88009

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

| ===== | | | |
|--------|------------------|-------------------|--|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| 88-03 | 032988 | 042888 | INITIATION OF 'PHASE A' CONTAINMENT ISOLATION DURING SAFEGUARDS TESTING DUE TO OPERATOR ERROR.
LIMITS |
| ===== | | | |

1. Docket: 50-312 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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:

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|----------------|----------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>114,288.0</u> |
| 13. Hours Reactor Critical | <u>688.1</u> | <u>691.6</u> | <u>53,256.6</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>10,647.7</u> |
| 15. Hrs Generator On-Line | <u>449.8</u> | <u>449.8</u> | <u>50,813.6</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>1,210.2</u> |
| 17. Gross Therm Ener (MWH) | <u>377,080</u> | <u>377,080</u> | <u>124,605,615</u> |
| 18. Gross Elec Ener (MWH) | <u>112,743</u> | <u>112,743</u> | <u>41,640,892</u> |
| 19. Net Elec Ener (MWH) | <u>85,894</u> | <u>45,569</u> | <u>39,034,764</u> |
| 20. Unit Service Factor | <u>62.6</u> | <u>15.5</u> | <u>44.5</u> |
| 21. Unit Avail Factor | <u>62.6</u> | <u>15.5</u> | <u>45.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>13.7</u> | <u>1.8</u> | <u>39.1</u> |
| 23. Unit Cap Factor (DER Net) | <u>13.0</u> | <u>1.7</u> | <u>37.2</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>82.7</u> | <u>44.7</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>2,143.0</u> | <u>41,048.5</u> |

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

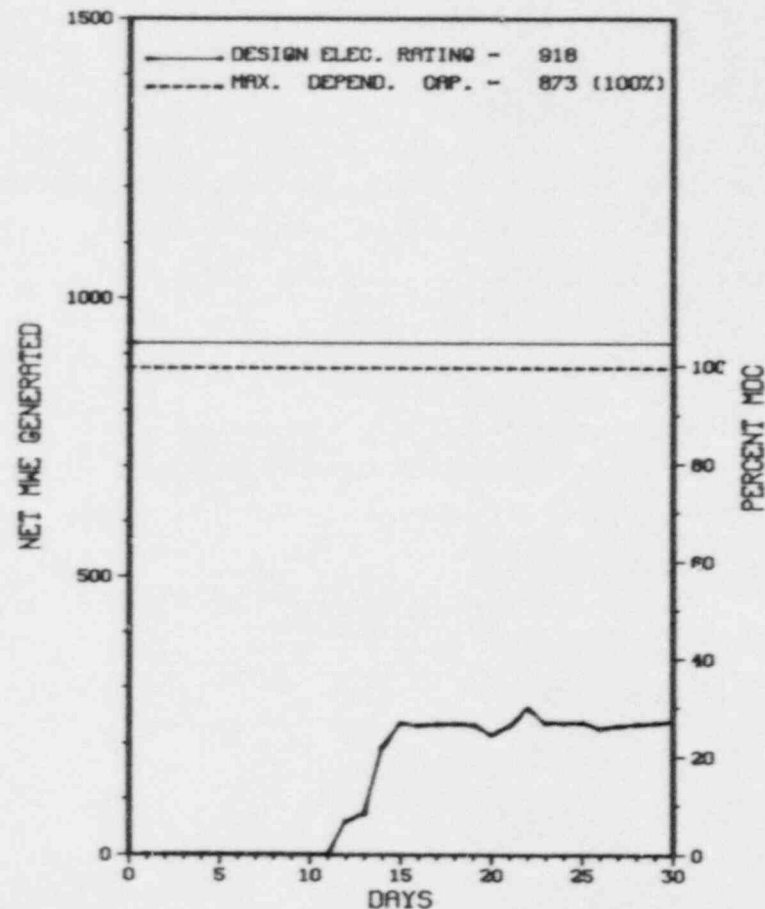
REACTOR TRIPS 5/5 THRU 5/11 AND 9/24 THRU 9/28.

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

 X RANCHO SECO 1 X

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RANCHO SECO 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * RANCHO SECO 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 2 | 03/30/88 | S | 260.8 | E | 4 | | | | OPERATOR TRAINING AND TESTING PRIOR TO POWER GENERATION (REACTOR BROUGHT CRITICAL 17 TIMES IN APRIL FOR TRAINING) |
| 3 | 04/11/88 | S | 8.4 | B | 1 | | | | THE TURBINE WAS TRIPPED AS PART OF THE POWER ASCENSION TESTING PROGRAM. |

 * SUMMARY *

 RANCHO SECO 1 INCURRED 2 SCHEDULED OUTAGES IN APRIL 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) |

* RANCHO SECO 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA

COUNTY.....SACRAMENTO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI SE OF
SACRAMENTO, CA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...SEPTEMBER 16, 1974

DATE ELEC ENER 1ST GENER...OCTOBER 13, 1974

DATE COMMERCIAL OPERATE...APRIL 17, 1975

CONDENSER COOLING METHOD...COOLING TOWERS

CONDENSER COOLING WATER...FOLSOM CANAL

ELECTRIC RELIABILITY
COUNCIL.....WESTERN SYSTEMS
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....SACRAMENTO MUN. UTIL. DISTRICT

CORPORATE ADDRESS.....6201 S STREET P.O. BOX 15830
SACRAMENTO, CALIFORNIA 95813

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....A. DANGELO

LICENSING PROJ MANAGER.....G. KALMAN
DOCKET NUMBER.....50-312

LICENSE & DATE ISSUANCE...DPR-54, AUGUST 16, 1974

PUBLIC DOCUMENT ROOM.....BUSINESS AND MUNICIPAL DEPARTMENT
SACRAMENTO LIBRARY
828 I STREET
SACRAMENTO, CALIFORNIA 95814

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON DECEMBER 7, 1987 - FEBRUARY 18, 1988 (REPORT NO. 50-312/87-40) HEADQUARTERS' REPORT - LETTER ISSUED ON APRIL 26, 1988.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JANUARY 4 - MARCH 10, 1988 (REPORT NO. 50-312/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 4 - MARCH 25, 1988 (REPORT NO. 50-312/88-05) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 7 - 22, 1988 (REPORT NO. 50-312/88-08) AREAS INSPECTED: SPECIAL UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR TO REVIEW THE LICENSEE'S CAPABILITIES FOR THE MANAGEMENT AND IMPLEMENTATION OF AN EFFECTIVE LIQUID AND GASEOUS EFFLUENT PROGRAM AFTER RESTART; REVIEW THE STATUS OF UNRESOLVED ITEM 88-07-01 RELATED TO A POTENTIAL OVEREXPOSURE REPORTED BY THE LICENSEE ON FEBRUARY 4, 1988; REVIEW THE LICENSEE'S RADIATION PROTECTION, CHEMISTRY AND RADWASTE ORGANIZATION, INCLUDING A REVIEW OF THE RADIATION PROTECTION, CHEMISTRY AND RADWASTE STAFF QUALIFICATION AND TRAINING PROGRAM; REVIEW OF FOLLOWUP ITEMS; AND A TOUR OF THE FACILITY. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: OF THE AREAS INSPECTED, TWO VIOLATIONS RELATED TO UNRESOLVED ITEM 88-07-01 WERE IDENTIFIED INVOLVING FAILURE TO ADHERE TO RADIATION PROTECTION PROCEDURES, TECHNICAL SPECIFICATION 6.11, AND FAILURE TO PROVIDE INSTRUCTIONS TO WORKERS, 10 CFR PART

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* RANCHO SEC0 1 *

INSPECTION SUMMARY

19.12. THE LICENSEE'S PERFORMANCE IN THE REMAINING AREAS THAT WERE EXAMINED MET THE REGULATORY REQUIREMENTS. AS A RESULT OF THE INSPECTION FINDINGS AND THE MANAGEMENT MEETING, REGION V FOUND THAT THE RADIATION PROTECTION PROGRAM WAS ADEQUATE TO SUPPORT RESTART.

+ INSPECTION ON MARCH 20 - APRIL 8, 1988 (REPORT NO. 50-312/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 17, 1988 (REPORT NO. 50-312/88-11) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF AN UNUSUAL EVENT ON MARCH 15, 1988. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 30 - MAY 2, 1988 (REPORT NO. 50-312/88-12) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON APRIL 8 - 19, 1988 (REPORT NO. 50-312/88-13) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON APRIL 21 - 29, 1988 (REPORT NO. 50-312/88-14) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

QAP-17 AND 10 CFR 50 APPENDIX B REQUIRED COMPLETION OF ECN/DCN DISPOSITION PRIOR TO CLOSURE OF A RELATED NONCOMFORMANCE REPORT. CONTRARY TO THIS REQUIREMENT, ON THREE OCCASIONS NOTED, AN NCR WAS CLOSED PRIOR TO COMPLETION OF THE RELATED ENGINEERING CHANGE NOTICE (ECN) OR OF THE ACTIONS OF THE NCR ITSELF.

(8704 4)

10 CFR 50, APPENDIX B, CRITERION V, REQUIRES THAT ACTIVITIES AFFECTING QUALITY SHALL BE PRESCRIBED BY DOCUMENTED INSTRUCTIONS, PROCEDURES OR DRAWINGS AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE INSTRUCTIONS, PROCEDURES, OR DRAWINGS. SMUD MATERIALS MANAGEMENT PROCEDURE MMP-0025, "PRESERVATION, STORAGE, AND MAINTENANCE OF ITEMS IN STORAGE," PARAGRAPH 7.6.5, REQUIRES THAT ITEMS WHOSE SHELF LIFE HAS EXPIRED SHALL BE REMOVED FROM THEIR STORAGE LOCATION AND PLACED IN A "HOLD" LOCATION. RANCHO SEC0 MANAGEMENT INFORMATION SYSTEM REPORT RSMA 0330, DATED JANUARY 4, 1988, IDENTIFIED MATERIALS WITH EXPIRATION DATES FOR THE FIRST QUARTER OF 1988. CONTRARY TO THE STATED REQUIREMENTS, ON FEBRUARY 4, 1988, THREE SAFETY-RELATED RSMM 0330 GASKET LINE ITEMS (9 PIECES), WITH EXPIRED SHELF LIVES, HAD NOT BEEN TAGGED OR PLACED IN A HOLD LOCATION. TECHNICAL SPECIFICATION 6.12, HIGH RADIATION AREA, READS IN PART: "IN LIEU OF THE "CONTROL DEVICE" OR "ALARM SIGNAL" REQUIRED BY PARAGRAPH 20.203(C)(2) OF 10 CFR 20, EACH HIGH RADIATION AREA IN WHICH THE INTENSITY OF RADIATION IS GREATER THAN 100 MREM/HR BUT LESS THAN 1000 MREM/HR SHALL BE BARRICADED AND CONSPICUOUSLY POSTED AS A HIGH RADIATION AREA AND ENTRANCE THERETO SHALL BE CONTROLLED BY REQUIRING ISSUANCE OF A RADIATION EXPOSURE PERMIT..." CONTRARY TO THE STATED REQUIREMENTS, ON MARCH 1, 1988, A HIGH RADIATION AREA BEHIND STEAM GENERATOR "A" ON THE 31' ELEVATION OF THE UNIT 1 CONTAINMENT IN WHICH THE INTENSITY OF RADIATION RANGED UP TO 200 MREM/HR WAS NOT BARRICADED AND POSTED AS A HIGH RADIATION AREA.

(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

PLANT IS PERFORMING HOT SHUTDOWN TESTING AND WILL BE PERFORMING STEPPED INCREASES TO COMMERCIAL OPERATION. TDI EDG TESTING IS ALSO IN PROGRESS.

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X          RANCHO SECO 1          X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

* PLANT HAD BEEN SHUT DOWN SINCE DECEMBER 26, 1985. NUCLEAR REGULATORY COMMISSION APPROVAL FOR RESTART WAS OBTAINED ON MARCH 22, 1988. STARTUP COMMENCED MARCH 30, 1988.

NRC SALP BOARD MEETING WAS HELD ON AUGUST 12, 1986.

4 THE PLANT IS CURRENTLY PERFORMING A GRADUAL APPROACH TO FULL POWER TEST PROGRAM. A TURBINE TRIP FROM APPROXIMATELY 25 PERCENT POWER WAS PERFORMED ON MAY 4, 1988

LAST IE SITE INSPECTION DATE: 03/30 - 05/02/88+

INSPECTION REPORT NO: 50-312/88-12+

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|----------|------------------|-------------------|--|
| 88-02-LO | 02-03-88 | 02-25-88 | PERSONNEL ERROR EDG "A" INADVERTENT START. |

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1. Docket: 50-458 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>21,119.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,735.7</u> | <u>14,449.8</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,678.3</u> | <u>13,210.1</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,058,013</u> | <u>7,484,314</u> | <u>32,954,198</u> |
| 18. Gross Elec Ener (MWH) | <u>710,468</u> | <u>2,589,791</u> | <u>11,210,665</u> |
| 19. Net Elec Ener (MWH) | <u>666,420</u> | <u>2,429,895</u> | <u>10,455,100</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>92.3</u> | <u>62.6</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>92.3</u> | <u>62.6</u> |
| 22. Unit Cap Factor (MDC Net) | <u>99.0</u> | <u>89.4</u> | <u>52.9</u> |
| 23. Unit Cap Factor (DER Net) | <u>99.0</u> | <u>89.4</u> | <u>52.4</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>6.7</u> | <u>13.1</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>193.5</u> | <u>1,991.0</u> |

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

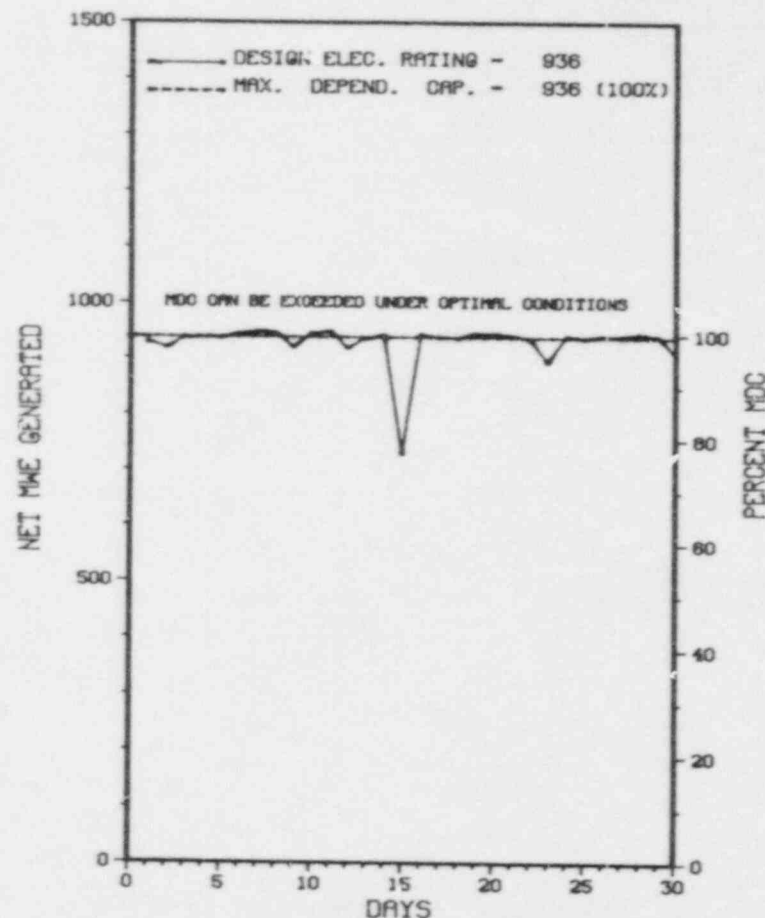
NONE

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

 * R I V E R B E N D 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RIVER BEND 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * RIVER BEND 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-06 | 04/15/88 | S | 0.0 | A | 5 | | | | REDUCED POWER TO 65% TO FIX ACTUATOR ON FIRST POINT
FEEDWATER HEATER LEVEL VALVE 1HDH-SOV6A. |

 * SUMMARY *

 RIVER BEND 1 INCURRED 1 POWER REDUCTION IN APRIL TO REPAIR
 VALVE.

| 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) |

* RIVER BEND 1 *

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

Report Period APR 1980

FACILITY DESCRIPTION

LOCATION
STATE.....LOUISIANA
COUNTY.....WEST FELICIANA
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...24 MI NNW OF
BATON ROUGE, LA
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...OCTOBER 31, 1985
DATE ELEC ENER 1ST GENER...DECEMBER 3, 1985
DATE COMMERCIAL OPERATE....JUNE 16, 1986
CONDENSER COOLING METHOD...MDCT
CONDENSER COOLING WATER...MISSISSIPPI RIVER
ELECTRIC RELIABILITY
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GULF STATES UTILITIES
CORPORATE ADDRESS.....P.O. BOX 2951
BEAUMONT, LOUISIANA 77704
CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....STONE & WEBSTER
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV
IE RESIDENT INSPECTOR.....D. CHAMBERLAIN
LICENSING PROJ MANAGER.....W. PAULSON
DOCKET NUMBER.....50-458
LICENSE & DATE ISSUANCE...NPF-47, NOVEMBER 20, 1985
PUBLIC DOCUMENT ROOM.....GOVERNMENT DOCUMENTS DEPARTMENT
TROY H. MIDDLETON LIBRARY
LOUISIANA STATE UNIVERSITY
BATON ROUGE, LOUISIANA 70803

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 APR 1988

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

=====

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

INFO. NOT SUPPLIED BY REGION

=====

1. Docket: 50-261 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: V.E. FRAZIER (893) 383-4524 X 1229

4. Licensed Thermal Power (MWh): 2300

5. Nameplate Rating (Gross MWe): 854 X 0.9 = 769

6. Design Electrical Rating (Net MWe): 700

7. Maximum Dependable Capacity (Gross MWe): 700

8. Maximum Dependable Capacity (Net MWe): 665

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

10. Power Level To Which Restricted, If Any (Net MWe): 420

11. Reasons for Restrictions, If Any: _____

ADMINISTRATIVE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|----------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>150,413.0</u> |
| 13. Hours Reactor Critical | <u>699.1</u> | <u>1,888.0</u> | <u>107,417.2</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>3,159.6</u> |
| 15. Hrs Generator On-Line | <u>696.7</u> | <u>1,848.3</u> | <u>104,872.6</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>23.2</u> |
| 17. Gross Therm Ener (MWH) | <u>947,988</u> | <u>3,050,147</u> | <u>211,202,708</u> |
| 18. Gross Elec Ener (MWH) | <u>299,504</u> | <u>995,736</u> | <u>68,379,073</u> |
| 19. Net Elec Ener (MWH) | <u>280,431</u> | <u>934,654</u> | <u>64,612,583</u> |
| 20. Unit Service Factor | <u>96.9</u> | <u>63.7</u> | <u>69.7</u> |
| 21. Unit Avail Factor | <u>96.9</u> | <u>63.7</u> | <u>69.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>58.7</u> | <u>48.4</u> | <u>64.6</u> |
| 23. Unit Cap Factor (DER Net) | <u>55.7</u> | <u>46.0</u> | <u>61.4</u> |
| 24. Unit Forced Outage Rate | <u>3.1</u> | <u>36.3</u> | <u>14.0</u> |
| 25. Forced Outage Hours | <u>22.3</u> | <u>1,053.8</u> | <u>11,256.5</u> |

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

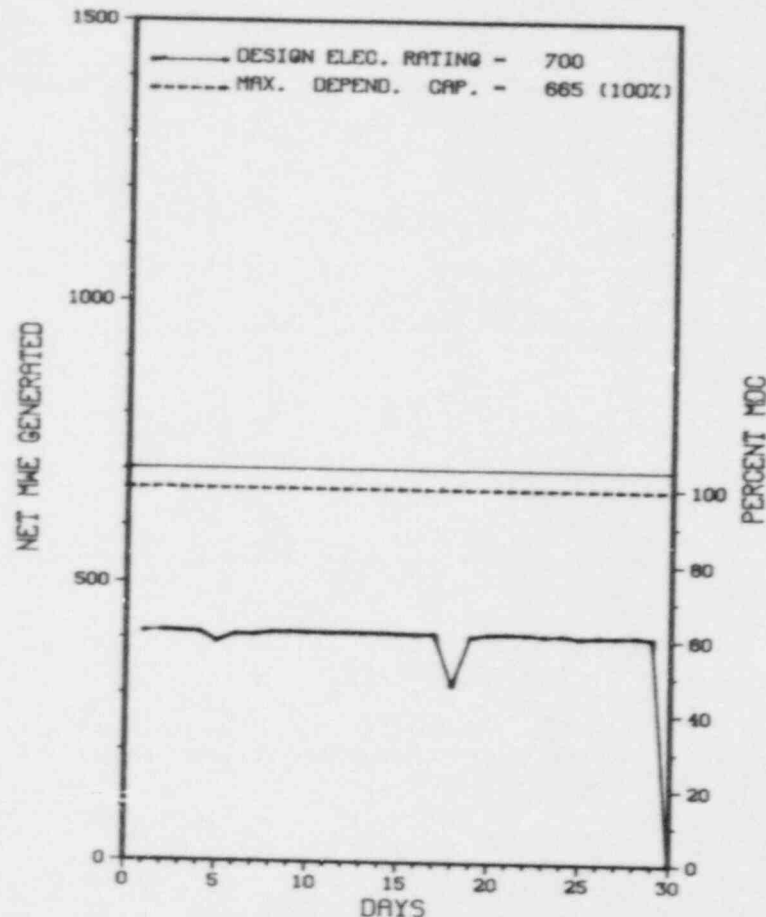
REFUELING/MAINT, NOV. 12, 1988, 49 DAY DURATION.

27. If Currently Shutdown Estimated Startup Date: 05/02/88

* ROBINSON 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ROBINSON 2



* RIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * ROBINSON 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 0401 | 04/18/88 | F | 0.0 | A | 5 | | CJ | INSTRU | THE UNIT WAS REDUCED IN POWER FROM 60% TO 35% FOR REPLACEMENT AND RECALIBRATION OF REACTOR COOLANT FLOW TRANSMITTER (FT-456). THE TRANSMITTER WAS REPLACED, RECALIBRATION WAS COMPLETED, AND THE UNIT RETURNED TO 60% REACTOR POWER. |
| 0402 | 04/30/88 | F | 22.3 | A | 1 | | CB | VALVEX | THE UNIT WAS TAKEN TO HOT SHUTDOWN DUE TO RCS LEAK IN CV. THE LEAK WAS DETERMINED TO BE FROM "C" RTD BYPASS LOOP ISOLATION VALVE PACKING. MAINTENANCE WAS PERFORMED, THE LEAK STOPPED, AND THE UNIT RETURNED TO POWER. |

 * SUMMARY *

 ROBINSON 2 OPERATED AT A NOMINAL POWER LEVEL OF 60% AND INCURRED 1 POWER REDUCTION AND 1 FORCED OUTAGE IN APRIL FOR REASONS STATED ABOVE.

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

* ROBINSON 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....SOUTH CAROLINA
COUNTY.....DARLINGTON
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI NW OF
HARTSVILLE, SC
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...SEPTEMBER 20, 1970
DATE ELEC ENER 1ST GENER...SEPTEMBER 26, 1970
DATE COMMERCIAL OPERATE...MARCH 7, 1971
CONDENSER COOLING METHOD...RECIRCULATION
CONDENSER COOLING WATER...ROBINSON IMPOUNDMENT
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....CAROLINA POWER & LIGHT
CORPORATE ADDRESS.....411 FAYETTEVILLE STREET
RALEIGH, NORTH CAROLINA 27601
CONTRACTOR
ARCHITECT/ENGINEER.....EBASCO
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....EBASCO
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....P. KRUG
LICENSING PROJ MANAGER.....R. LO
DOCKET NUMBER.....50-261
LICENSE & DATE ISSUANCE....DPR-23, SEPTEMBER 23, 1970
PUBLIC DOCUMENT ROOM.....HARTSVILLE MEMORIAL LIBRARY
220 N. FIFTH ST.
HARTSVILLE, SOUTH CAROLINA 29550

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 11-29 (88-01): THIS SPECIAL, ANNOUNCED QUALITY VERIFICATION INSPECTION WAS CONDUCTED IN THE AREAS OF MAINTENANCE, DESIGN CONTROL, OPERATIONS, COMMERCIAL GRADE PROCUREMENT, AND QUALITY ASSURANCE/ QUALITY CONTROL. FOUR VIOLATIONS WERE IDENTIFIED INVOLVING FAILURE TO MEET REPORTABILITY REQUIREMENTS, FAILURE TO PERFORM POST-MODIFICATION TESTING, FAILURE TO MAINTAIN RECORDS, AND FAILURE TO FOLLOW PROCEDURES RELATING TO TEMPORARY REPAIRS, WORK REQUESTS, AND THE TREND ANALYSIS PROGRAM. ONE UNRESOLVED ITEM WAS IDENTIFIED RELATED TO USE OF COMMERCIAL GRADE PROCURED ITEMS AND USE OF COMMERCIAL GRADE PROCURED ITEMS IN EQ APPLICATIONS.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

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

* ROBINSON 2 *

OTHER ITEMS

+ (SEE PLANT STAUTS)

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ DUE TO SINGLE FAILURE EDG/SI PUMP CONCERN, PLANT IS LIMITED TO 60% POWER OPER. UNIT TRIPPED ON 5/12 DURING LOGIC TESTING OF TURBINE REDUNDENT OVERSPEED TRIP

LAST IE SITE INSPECTION DATE: JANUARY 11-29, 1988 +

INSPECTION REPORT NO: 50-261/88-01 +

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: 50-272 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: BRYAN W. GORMAN (609) 339-3400

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1300 X 0.9 = 1170

6. Design Electrical Rating (Net MWe): 1115

7. Maximum Dependable Capacity (Gross MWe): 1149

8. Maximum Dependable Capacity (Net MWe): 1106

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

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

11. Reasons for Restrictions, If Any:
NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>94,492.0</u> |
| 13. Hours Reactor Critical | <u>375.3</u> | <u>1,277.3</u> | <u>58,919.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>3,088.4</u> |
| 15. Hrs Generator On-Line | <u>369.7</u> | <u>1,141.2</u> | <u>56,932.8</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,244,849</u> | <u>3,766,834</u> | <u>176,238,047</u> |
| 18. Gross Elec Ener (MWH) | <u>418,050</u> | <u>1,263,400</u> | <u>58,455,688</u> |
| 19. Net Elec Ener (MWH) | <u>397,875</u> | <u>1,186,440</u> | <u>55,583,149</u> |
| 20. Unit Service Factor | <u>51.4</u> | <u>39.3</u> | <u>59.9</u> |
| 21. Unit Avail Factor | <u>51.4</u> | <u>39.3</u> | <u>59.9</u> |
| 22. Unit Cap Factor (MDC Net) | <u>50.0</u> | <u>37.0</u> | <u>52.9</u> |
| 23. Unit Cap Factor (DER Net) | <u>49.6</u> | <u>36.7</u> | <u>52.5</u> |
| 24. Unit Forced Outage Rate | <u>.1</u> | <u>3.2</u> | <u>25.2</u> |
| 25. Forced Outage Hours | <u>.2</u> | <u>38.2</u> | <u>19,498.0</u> |

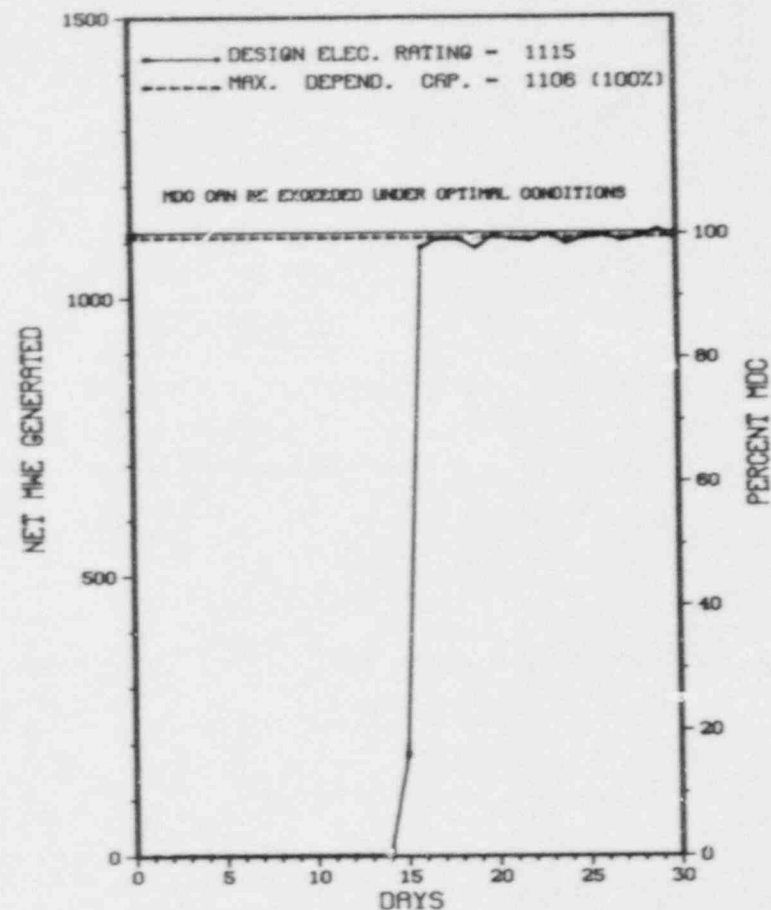
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* SALEM 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SALEM 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SALEM 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 0032 | 03/31/88 | S | 349.1 | B | 4 | | CB | HTEXCH | NUCLEAR STEAM GENERATOR TUBE LEAK |
| 0040 | 04/30/88 | F | 0.2 | A | 3 | | CC | VESSEL | LOSS OF PRESSURIZER PRESSURE. |

 * SUMMARY *

 SALEM 1 ENTERED APRIL IN AN OUTAGE. SUBSEQUENTLY,
 RETURNED TO POWER AND INCURRED 1 FORCED OUTAGE
 DURING REMAINDER OF THE MONTH.

| 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) |

* SALEM 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW JERSEY
COUNTY.....SALEM
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...20 MI S OF
WILMINGTON, DEL
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...DECEMBER 11, 1976
DATE ELEC ENER 1ST GENER...DECEMBER 25, 1976
DATE COMMERCIAL OPERATE...JUNE 30, 1977
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...DELAWARE RIVER
ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS
CORPORATE ADDRESS.....80 PARK PLACE
NEWARK, NEW JERSEY 07101
CONTRACTOR
ARCHITECT/ENGINEER.....PUBLIC SERVICES & GAS CO.
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....T. LINVILLE
LICENSING PROJ MANAGER....D. FISCHER
DOCKET NUMBER.....50-272
LICENSE & DATE ISSUANCE...DPR-70, DECEMBER 1, 1976
PUBLIC DOCUMENT ROOM.....SALEM FREE PUBLIC LIBRARY
112 WEST BROADWAY
SALEM, NEW JERSEY 08079

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 APR 1988

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

* SALEM 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: 50-311 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: BRYAN W. GORMAN (609) 339-3400

4. Licensed Thermal Power (Mwt): 3411

5. Nameplate Rating (Gross MWe): 1162

6. Design Electrical Rating (Net MWe): 1115

7. Maximum Dependable Capacity (Gross MWe): 1149

8. Maximum Dependable Capacity (Net MWe): 1106

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

| | MCNTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>57,408.0</u> |
| 13. Hours Reactor Critical | <u>689.3</u> | <u>2,873.3</u> | <u>35,251.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>3,533.6</u> |
| 15. Hrs Generator On-Line | <u>664.0</u> | <u>2,844.3</u> | <u>34,141.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,249,256</u> | <u>9,570,418</u> | <u>106,336,147</u> |
| 18. Gross Elec Ener (MWH) | <u>750,550</u> | <u>3,190,470</u> | <u>34,819,940</u> |
| 19. Net Elec Ener (MWH) | <u>719,576</u> | <u>3,062,440</u> | <u>33,081,908</u> |
| 20. Unit Service Factor | <u>92.4</u> | <u>98.0</u> | <u>59.5</u> |
| 21. Unit Avail Factor | <u>92.4</u> | <u>98.0</u> | <u>59.5</u> |
| 22. Unit Cap Factor (MLC Net) | <u>90.5</u> | <u>95.4</u> | <u>52.1</u> |
| 23. Unit Cap Factor (DER Net) | <u>89.8</u> | <u>94.6</u> | <u>51.7</u> |
| 24. Unit Forced Outage Rate | <u>7.6</u> | <u>2.0</u> | <u>31.3</u> |
| 25. Forced Outage Hours | <u>55.0</u> | <u>58.7</u> | <u>15,576.6</u> |

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

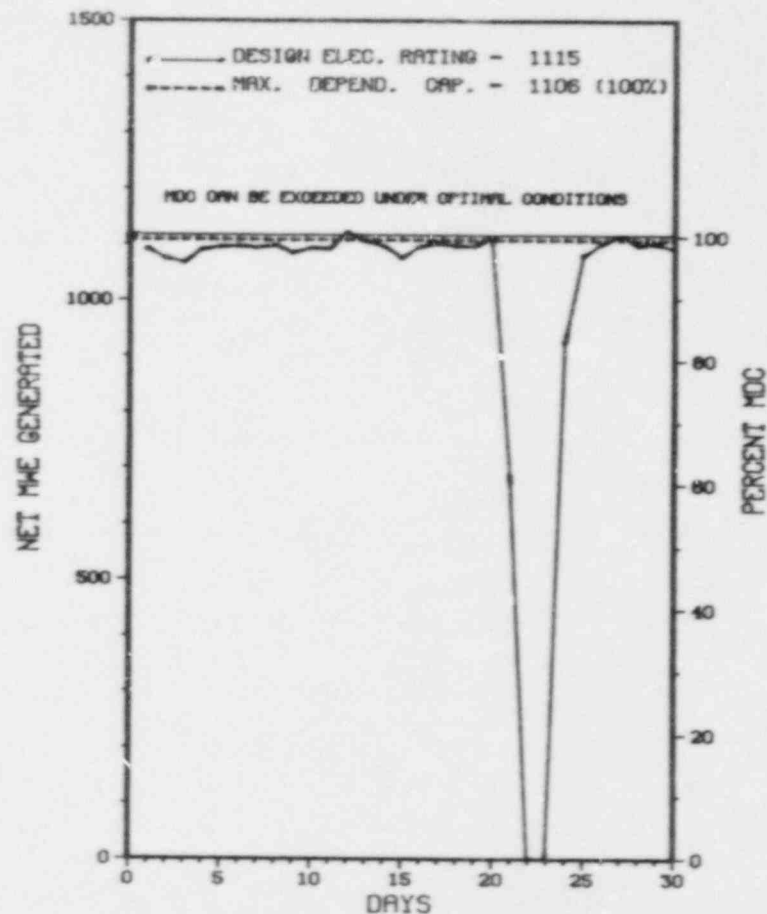
REFUELING - 9/1/88 - 52 DAY DURATION.

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

* SALEM 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SALEM 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SALEM 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 0078 | 04/21/88 | F | 22.7 | A | 3 | | CB | INSTRU | REACTOR COOLANT FLOW INDICATION. |
| 0079 | 04/22/88 | F | 32.3 | A | 3 | | CB | HTEXCH | STEAM GENERATOR LEVEL. |

 * SUMMARY *

SALEM 2 EXPERIENCED 2 FORCED OUTAGES IN APRIL FOR REASONS
 MENTIONED ABOVE.

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

* SALEM 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW JERSEY
COUNTY.....SALEM
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...20 MI S OF
WILMINGTON, DEL
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...AUGUST 8, 1980
DATE ELEC ENER 1ST GENER...JUNE 3, 1981
DATE COMMERCIAL OPERATE...OCTOBER 13, 1981
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...DELAWARE RIVER
ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS
CORPORATE ADDRESS.....80 PARK PLACE
NEWARK, NEW JERSEY 07101
CONTRACTOR
ARCHITECT/ENGINEER.....PUBLIC SERVICES & GAS CO.
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RES/REG.....I
IE RESIDENT REPRESENTATIVE.....T. LINVILLE
LICENSING PROGRAM 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.

Report Period APR 1988

INSPECTION STATUS - (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.

REPORTS FROM LICENSEE

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

=====

1. Docket: 50-206 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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 S.G. TUBE CORROSION.

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|---------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>183,007.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>1,068.7</u> | <u>107,540.1</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>.0</u> | <u>1,063.1</u> | <u>103,493.5</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>0</u> | <u>1,304,993</u> | <u>130,434,853</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>450,200</u> | <u>44,107,926</u> |
| 19. Net Elec Ener (MWH) | <u>-2,504</u> | <u>402,290</u> | <u>41,645,555</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>36.6</u> | <u>56.6</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>36.6</u> | <u>56.6</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>31.8</u> | <u>52.2</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>31.8</u> | <u>52.2</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>19.9</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>13,140.4</u> |

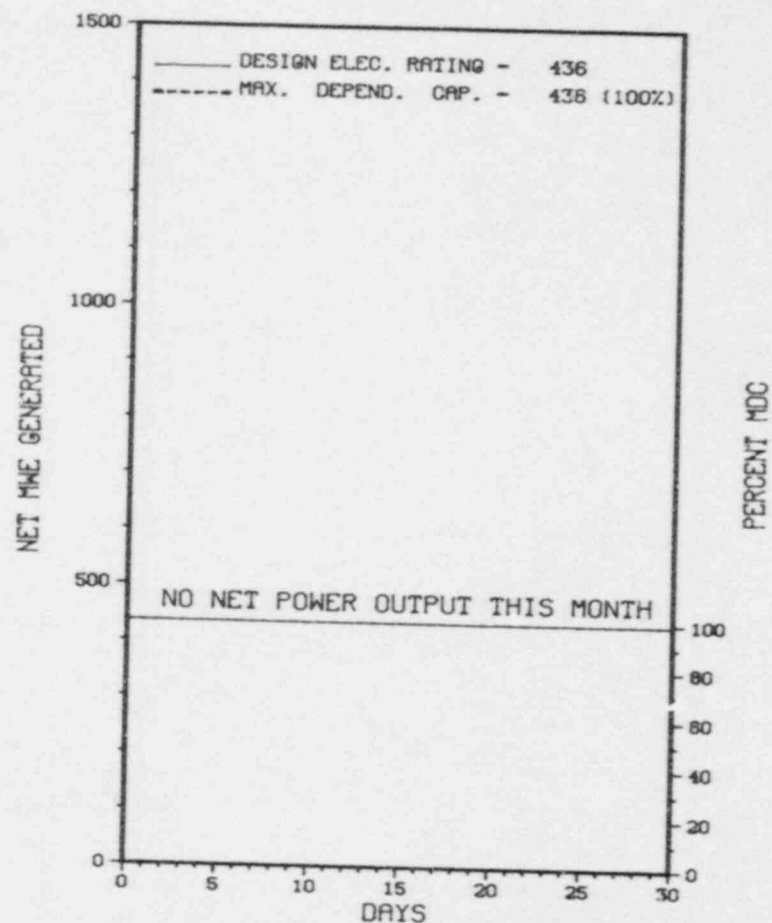
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* S A N O N O F R E 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SAN ONOFRE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 118 | 03/28/88 | S | 719.0 | H | 4 | 88-001 | BA | ISV | MID-CYCLE MAINTENANCE OUTAGE EXTENDED TO UPGRADE CERTAIN COMPONENTS IN ORDER TO MEET 10CFR 50.49 REQUIREMENTS. |

***** SAN ONOFRE REMAINED SHUTDOWN IN APRIL 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) |

* SAN ONOFRE 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA
COUNTY.....SAN DIEGO
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI S OF
SAN CLEMENTE, CA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...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.....R. HUEY
LICENSING PROJ MANAGER.....C. TRAMMELL
DOCKET NUMBER.....50-206
LICENSE & DATE ISSUANCE...DPR-13, MARCH 27, 1967
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF CALIFORNIA
GENERAL LIBRARY
IRVINE, CA. 92713

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON JANUARY 10 - FEBRUARY 27, 1988 (REPORT NO. 50-206/88-03) AREAS INSPECTED: ROUTINE RESIDENT INSPECTION OF UNIT 1 OPERATIONS PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, RADIOLOGICAL PROTECTION, SECURITY, EVALUATION OF PLANT TRIPS AND EVENTS, MONTHLY SURVEILLANCE ACTIVITIES, MONTHLY MAINTENANCE ACTIVITIES, INDEPENDENT INSPECTION, REVIEW OF LICENSEE EVENT REPORTS, AND FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION WAS IDENTIFIED: FAILURE TO COMPLY WITH TECHNICAL SPECIFICATION AND SURVEILLANCE PROCEDURE REQUIREMENTS FOR SURVEILLANCE TESTING OF THE SAFETY-RELATED BACKUP NITROGEN SYSTEM. NUMEROUS EXAMPLES OF INADEQUATE ENVIRONMENTAL QUALIFICATION OF SAFETY EQUIPMENT WERE IDENTIFIED DURING THIS INSPECTION. THE LICENSEE WAS REQUESTED TO ADDRESS THE ROOT CAUSE OF THESE PROBLEMS AND IDENTIFY WARRANTED CORRECTIVE ACTIONS PRIOR TO RESTART FROM THE CURRENT MID-CYCLE OUTAGE.

+ INSPECTION ON MARCH 8 -11, 1988 (REPORT NO. 50-206/88-07) AREAS INSPECTED: UNANNOUNCED, ROUTINE EMERGENCY PREPAREDNESS INSPECTION IN THE AREA OF OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: OF THE AREAS INSPECTED, ONE VIOLATION OF NRC REQUIREMENTS WAS IDENTIFIED FOR FAILURE TO CONDUCT AN INDEPENDENT REVIEW OF THE EMERGENCY PREPAREDNESS PROGRAM AT LEAST EVERY 12 MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 9, 1988 (REPORT NO. 50-206/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

PAGE 2-364

INSPECTION SUMMARY

+ INSPECTION ON MARCH 14 - APRIL 8, 1988 (REPORT NO. 50-206/88-09) AREAS INSPECTED: A ROUTINE, UNANNOUNCED INSPECTION OF ACTIVITIES RELATING TO A CONTAINMENT INTEGRATED LEAK RATE TEST AND FOLLOWUP ON OPEN ITEMS. THE INTEGRATED LEAK RATE TEST INSPECTION INCLUDED REVIEW OF PROCEDURES AND RECORDS, INTERVIEWS WITH PERSONNEL, WITNESSING PORTIONS OF THE INTEGRATED LEAK RATE TEST, INSPECTION OF THE CONTAINMENT BUILDING, ASSOCIATED PENETRATIONS AND PIPING SYSTEM. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 25 - MARCH 25, 1988 (REPORT NO. 50-206/88-10) AREAS INSPECTED: THIS WAS A SPECIAL INSPECTION CONDUCTED FOLLOWING THE IDENTIFICATION OF ENVIRONMENTAL QUALIFICATION DEFICIENCIES.

RESULTS: SEVERAL EXAMPLES OF LACK OF PROPER ENVIRONMENTAL QUALIFICATION OF UNIT 1 SAFETY EQUIPMENT WERE IDENTIFIED DURING THIS INSPECTION. A REVIEW CONDUCTED BY THE LICENSEE IN RESPONSE TO THE INSPECTOR'S FINDINGS IDENTIFIED NUMEROUS ADDITIONAL EXAMPLES. THE NATURE AND LARGE NUMBER OF DEFICIENCIES IDENTIFIED INDICATES A PROGRAMMATIC BREAKDOWN OF LICENSEE IMPLEMENTATION OF ENVIRONMENTAL QUALIFICATION CONTROL, AS REQUIRED BY NRC REGULATIONS. THE LICENSEE WAS REQUESTED TO ADDRESS THE ROOT CAUSE OF THIS PROGRAM BREAKDOWN AND IDENTIFY WARRANTED CORRECTIVE ACTIONS PRIOR TO RESTART OF UNIT 1 FROM THE CURRENT MID-CYCLE OUTAGE.

+ INSPECTION ON APRIL 5 - 8, 1988 (REPORT NO. 50-206/88-12) AREAS INSPECTED: ROUTINE, UNANNOUNCED REGIONAL INSPECTION OF MAINTENANCE PROGRAM IMPLEMENTATION, INSPECTOR FOLLOWUP ITEMS, AND FOLLOWUP ON ITEMS OF NON-COMPLIANCE. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON APRIL 10 - MAY 14, 1988 (REPORT NO. 50-206/88-13) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ON FEBRUARY 25, 1988, SOUTHERN CALIFORNIA EDISON IDENTIFIED TO THE NRC THAT THEY HAD IDENTIFIED SOME ENVIRONMENTAL QUALIFICATION (EQ) PROBLEMS WITH VARIOUS COMPONENTS. THESE COMPONENTS WERE PRIMARILY SOLENOID VALVES IN THE AUXILIARY FEEDWATER, CHEMICAL AND VOLUME CONTROL, SAFETY INJECTION, AND CONTAINMENT ISOLATION SYSTEMS. IN A POSTULATED HARSH ENVIRONMENT, THESE COMPONENTS COULD BECOME INOPERABLE OR CAUSE SECONDARY ELECTRICAL PROBLEMS. THE LICENSEE IDENTIFIED THAT THESE DEFICIENCIES WOULD BE CORRECTED PRIOR TO STARTUP OR JUSTIFICATION WOULD BE PROVIDED FOR CONTINUED OPERATION.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

Report Period APR 1988

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

* SAN ONOFRE 1 *

OTHER ITEMS

PLANT STATUS:

+ THE UNIT HAS REMAINED SHUT DOWN SINCE FEBRUARY 13, 1988, FOR A 45-DAY PLANNED MAINTENANCE OUTAGE (NO REFUELING). THE OUTAGE WAS EXTENDED TO RESOLVE THE ENVIRONMENTAL QUALIFICATION DEFICIENCIES IDENTIFIED ABOVE.

LAST IE SITE INSPECTION DATE: 04/10 - 05/14/88

INSPECTION REPORT NO: 50-206/8

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

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|----------|------------------|-------------------|---|
| 88-01-L0 | 01-18-88 | 02-17-88 | MISSED CTMT PURGE SAMPLE LOSED BY JET
C |
| 88-03-S0 | 04-06-88 | 04-05-88 | 10 CFR 73.71 (C) RPT RE: NALARMED VA PORTAL (SAFEGUARDS EVENT)
U |

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1. Docket: 50-361 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: E. R. SIACOR (714) 368-6225

4. Licensed Thermal Power (MWt): 3390

5. Nameplate Rating (Gross MWe): 1127

6. Design Electrical Rating (Net MWe): 1070

7. Maximum Dependable Capacity (Gross MWe): 1127

8. Maximum Dependable Capacity (Net MWe): 1070

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

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

11. Reasons for Restrictions, If Any:

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|-----------|-----------|------------|
| 12. Report Period Hrs | 719.0 | 2,903.0 | 41,472.0 |
| 13. Hours Reactor Critical | 627.7 | 2,453.6 | 28,246.1 |
| 14. Rx Reserve Shtdwn Hrs | .0 | .0 | .0 |
| 15. Hrs Generator On-Line | 603.9 | 2,416.0 | 27,601.7 |
| 16. Unit Reserve Shtdwn Hrs | .0 | .0 | .0 |
| 17. Gross Therm Ener (MWH) | 2,057,911 | 7,993,161 | 88,959,584 |
| 18. Gross Elec Ener (MWH) | 673,082 | 2,749,039 | 30,011,613 |
| 19. Net Elec Ener (MWH) | 637,840 | 2,611,684 | 28,400,564 |
| 20. Unit Service Factor | 84.0 | 83.2 | 66.6 |
| 21. Unit Avail Factor | 84.0 | 83.2 | 66.6 |
| 22. Unit Cap Factor (MDC Net) | 82.9 | 84.1 | 64.0 |
| 23. Unit Cap Factor (DER Net) | 82.9 | 84.1 | 64.0 |
| 24. Unit Forced Outage Rate | .0 | .0 | 4.1 |
| 25. Forced Outage Hours | .0 | .0 | 1,183.5 |

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

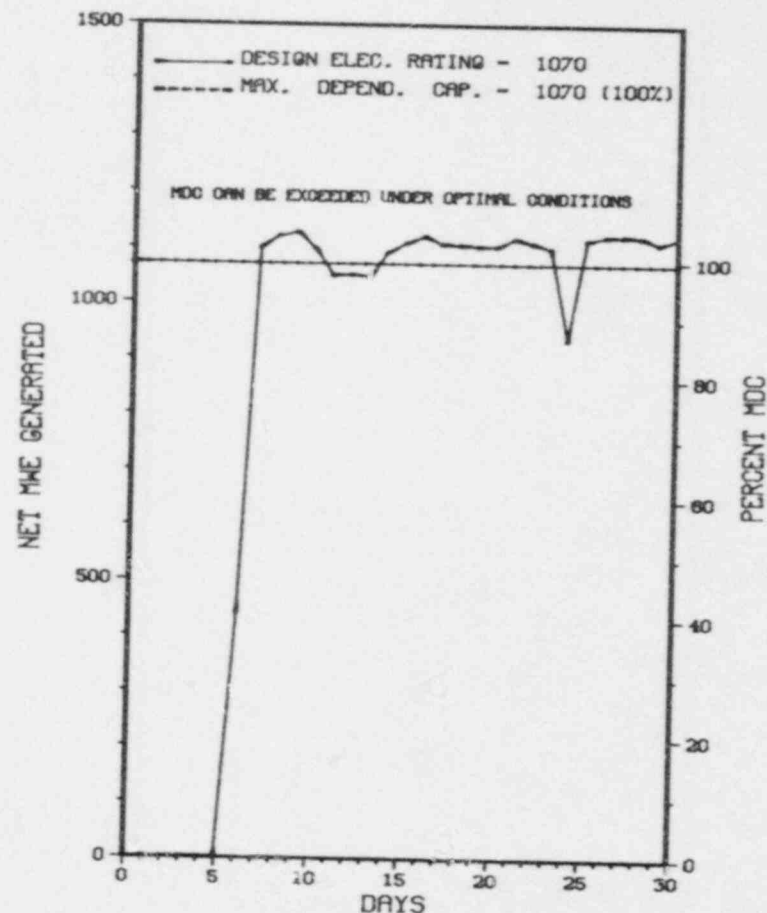
NONE

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

 * SAN ONOFRE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SAN ONOFRE 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 42 | 03/17/88 | S | 115.1 | B | 4 | | SG | | UNIT SHUTDOWN FROM 100% POWER FOR INSPECTION AND REPAIRS TO STEAM GENERATOR E-088 TUBE LEAKS. |

 * SUMMARY *

 SAN ONOFRE 2 ENTERED APRIL IN A SCHEDULED OUTAGE FOR REASONS STATED ABOVE AND SUBSEQUENTLY RETURNED TO POWER.

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

* SAN ONOFRE 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA
COUNTY.....SAN DIEGO
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI S OF
SAN CLEMENTE, CA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JULY 26, 1982
DATE ELEC ENER 1ST GENER...SEPTEMBER 20, 1982
DATE COMMERCIAL OPERATE...AUGUST 8, 1983
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER JLING 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 JANUARY 17 - FEBRUARY 27, 1988 (REPORT NO. 50-361/88-03) AREAS INSPECTED: ROUTINE RESIDENT INSPECTION OF UNIT 2 OPERATIONS PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, RADIOLOGICAL PROTECTION, SECURITY, EVALUATION OF PLANT TRIPS AND EVENTS, MONTHLY SURVEILLANCE ACTIVITIES, MONTHLY MAINTENANCE ACTIVITIES, INDEPENDANT INSPECTION, REVIEW OF LICENSEE EVENT REPORTS, AND FOLLOW-UP OF PREVIOUSLY IDENTIFIED ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: OF THE AREAS INSPECTED TWO VIOLATIONS WERE IDENTIFIED. FAILURE TO PROPERLY SET MAIN STEAM LINE SAFETY VALVES IN ACCORDANCE WITH TECHNICAL SPECIFICATION REQUIREMENTS; IMPROPER DOCUMENTATION AND EVALUATION OF NONCONFORMING CONDITIONS OBSERVED DURING MAINTENANCE ON SAFETY-RELATED EQUIPMENT.

+ INSPECTION ON MARCH 8 - 11, 1988 (REPORT NO. 50-361/88-07) AREAS INSPECTED: UNANNOUNCED, ROUTINE EMERGENCY PREPAREDNESS INSPECTION IN THE AREA OF OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: OF THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED FOR FAILURE TO CONDUCT AN INDEPENDENT REVIEW OF THE EMERGENCY PREPAREDNESS PROGRAM AT LEAST EVERY 12 MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 9, 1988 (REPORT NO. 50-361/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* SAN ONOFRE 2 *

INSPECTION SUMMARY

INSPECTION ON APRIL 5 - 8, 1988 (REPORT NO. 50-361/88-09) AREAS INSPECTED: ROUTINE, UNANNOUNCED REGIONAL INSPECTION OF FOLLOWUP ON VENDOR-RELATED MODIFICATIONS FOR REACTOR TRIP BREAKERS, SURVEILLANCE TESTING AND CALIBRATION PROGRAM, INSPECTOR FOLLOWUP ITEMS, AND FOLLOWUP ON ITEMS OF NON-COMPLIANCE. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MAY 6 - 10, 1988 (REPORT NO. 50-361/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON APRIL 10 - MAY 14, 1988 (REPORT NO. 50-361/88-11) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ UNIT 2 WAS RESTARTED ON APRIL 5, 1988, FROM THE MAINTENANCE OUTAGE CONDUCTED IN MARCH 1988. DURING THAT OUTAGE, THE LICENSEE REPLACED SEVERAL STEAM GENERATOR TUBE PLUGS THAT WERE MISSING FROM TUBES THAT HAD BEEN PREVIOUSLY PLUGGED. THE UNIT WAS OPERATED AT FULL POWER FOR THE REMAINDER OF THE MONTH OF APRIL.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ UNIT 2 OPERATED AT FULL POWER UNTIL MARCH 17, 1988, WHEN IT WAS SHUT DOWN TO CORRECT STEAM GENERATOR TUBE LEAKAGE (SEE ABOVE). THE UNIT REMAINED SHUT DOWN FOR THE REMAINDER OF THE MONTH.

LAST IE SITE INSPECTION DATE: 04/10 - 05/14/88+

INSPECTION REPORT NO: 50-361/88-11+

Report Period APR 1988

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

* SAN ONOFRE 2 *

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|----------|------------------|-------------------|--|
| 88-01-L0 | 01-8-88 | 02-05-88 | SPURIOUS CRIS ACTUATION DUE TO CORROSION ON ELECTRICAL CONNECTORS |
| 88-06-L0 | -- | -- | SPURIOUS CRIS ACTUATION DUE TO CONNECTOR PINS BEING BACKED OUT OF MODULE |

=====

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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: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>35,783.0</u> |
| 13. Hours Reactor Critical | <u>696.6</u> | <u>2,632.3</u> | <u>26,354.8</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>696.6</u> | <u>2,580.8</u> | <u>25,454.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,323,149</u> | <u>8,593,478</u> | <u>78,049,239</u> |
| 18. Gross Elec Ener (MWH) | <u>797,392</u> | <u>2,952,875</u> | <u>26,430,769</u> |
| 19. Net Elec Ener (MWH) | <u>757,487</u> | <u>2,796,561</u> | <u>24,884,227</u> |
| 20. Unit Service Factor | <u>96.9</u> | <u>88.9</u> | <u>71.1</u> |
| 21. Unit Avail Factor | <u>96.9</u> | <u>88.9</u> | <u>71.1</u> |
| 22. Unit Cap Factor (MDC Net) | <u>97.5</u> | <u>89.2</u> | <u>64.4</u> |
| 23. Unit Cap Factor (DER Net) | <u>97.5</u> | <u>89.2</u> | <u>64.4</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>10.4</u> | <u>9.6</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>299.8</u> | <u>2,708.6</u> |

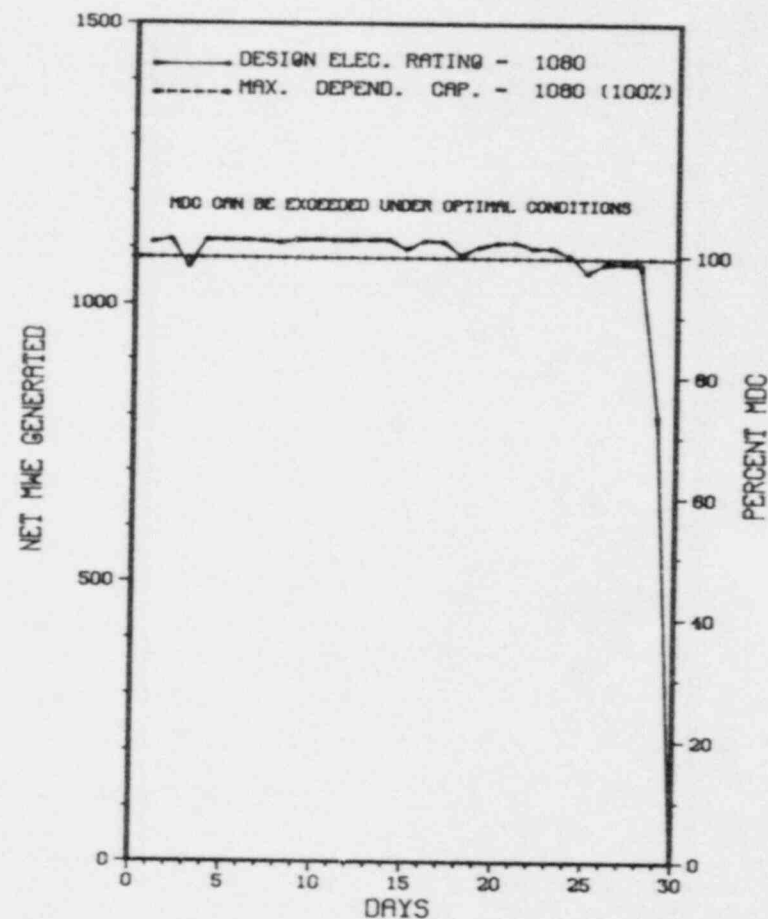
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 07/16/88

* SAN ONOFRE 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* SAN ONOFRE 3 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|------------------|---|
| 41 | 04/30/88 | S | 22.4 | C | 1 | | | CYCLE 4 REFUELING OUTAGE. |

* SUMMARY *

SAN ONOFRE 3 SHUTDOWN AT END OF MONTH 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) |

* SAN ONOFRE 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA
COUNTY.....SAN DIEGO
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI S OF
SAN CLEMENTE, CA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...AUGUST 29 1983
DATE ELEC ENER 1ST GENER...SEPTEMBER 25, 1983
DATE COMMERCIAL OPERATE...APRIL 1, 1984
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...PACIFIC OCEAN
ELECTRIC RELIABILITY
COUNCIL.....WESTERN SYSTEMS
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....SOUTHERN CALIFORNIA EDISON
CORPORATE ADDRESS.....P.O. BOX 800
ROSEMEAD, CALIFORNIA 91770
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....GENERAL ELECTRIC COM (ENG VERSION)

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V
IE RESIDENT INSPECTOR.....R. HUEY
LICENSING PROJ MANAGER.....D. HICKMAN
DOCKET NUMBER.....50-362
LICENSE & DATE ISSUANCE...NPF-15, NOVEMBER 15, 1982
PUBLIC DOCUMENT ROOM.....UNIVERSITY OF CALIFORNIA
GENERAL LIBRARY
IRVINE, CA. 92713

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON JANUARY 17 - FEBRUARY 27, 1988 (REPORT NO. 50-362/88-03) AREAS INSPECTED: ROUTINE RESIDENT INSPECTION OF UNIT 3 OPERATIONS PROGRAMS INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, RADIOLOGICAL PROTECTION, SECURITY, EVALUATION OF PLANT TRIPS AND EVENTS, MONTHLY SURVEILLANCE ACTIVITIES, MONTHLY MAINTENANCE ACTIVITIES, INDEPENDENT INSPECTION, REVIEW OF LICENSEE EVENT REPORTS, AND FOLLOW-UP OF PREVIOUSLY IDENTIFIED ITEMS. DURING THIS INSPECTIONS, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: TWO VIOLATIONS WERE IDENTIFIED INVOLVING FAILURE TO PROPERLY SET MAIN STEAM LINE SAFETY VALVES IN ACCORDANCE WITH TECHNICAL SPECIFICATION REQUIREMENTS; IMPROPER DOCUMENTATION AND EVALUATION OF NONCONFORMING CONDITIONS OBSERVED DURING MAINTENANCE ON SAFETY-RELATED EQUIPMENT.

+ INSPECTION ON MARCH 8 - 11, 1988 (REPORT NO. 50-362/88-07) AREAS INSPECTED: UNANNOUNCED, ROUTINE EMERGENCY PREPAREDNESS INSPECTION IN THE AREA OF OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM. DURING THIS INSPECTION ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: OF THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED FOR FAILURE TO CONDUCT AN INDEPENDENT REVIEW OF THE EMERGENCY PREPAREDNESS PROGRAM AT LEAST EVERY 12 MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 9, 1988 (REPORT NO. 50-362/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

X SAN ONOFRE 3 X

INSPECTION SUMMARY

+ INSPECTION ON APRIL 5 - 8, 1988 (REPORT NO. 50-362/88-09) AREAS INSPECTED: ROUTINE, UNANNOUNCED REGIONAL INSPECTION OF FOLLOWUP ON VENDOR-RELATED MODIFICATIONS FOR REACTOR TRIP BREAKERS, SURVEILLANCE TESTING AND CALIBRATION PROGRAM, INSPECTOR FOLLOWUP ITEMS, AND FOLLOWUP ON ITEMS OF NONCOMPLIANCE. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MAY 6 - 10, 1988 (REPORT NO. 50-362/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON APRIL 11 - MAY 14, 1988 (REPORT NO. 50-362/88-11) 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 OPERATED AT FULL POWER UNTIL APRIL 29, 1988, WHEN IT WAS SHUT DOWN FOR THE CYCLE 4 REFUELING. THE LICENSEE EXPECTS TO RETURN THE UNIT TO SERVICE IN EARLY JULY.

LAST IE SITE INSPECTION DATE: 04/11 - 05/14/88+

INSPECTION REPORT NO: 50-362/88-11+

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---------|
| ----- | | | |
| NONE | | | |
| ===== | | | |

1. Docket: 50-327 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: DAVID DUPREE (615) 870-6722

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1220

6. Design Electrical Rating (Net MWe): 1148

7. Maximum Dependable Capacity (Gross MWe): 1183

8. Maximum Dependable Capacity (Net MWe): 1148

9. If Changes Occur Above 5% 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>719.0</u> | <u>2,903.0</u> | <u>59,904.0</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>-4,239</u> | <u>-23,140</u> | <u>24,831,183</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>.0</u> | <u>39.8</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>.0</u> | <u>39.8</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>.0</u> | <u>36.1</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>.0</u> | <u>36.1</u> |
| 24. Unit Forced Outage Rate | <u>100.0</u> | <u>100.0</u> | <u>52.9</u> |
| 25. Forced Outage Hours | <u>719.0</u> | <u>2,903.0</u> | <u>26,794.1</u> |

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

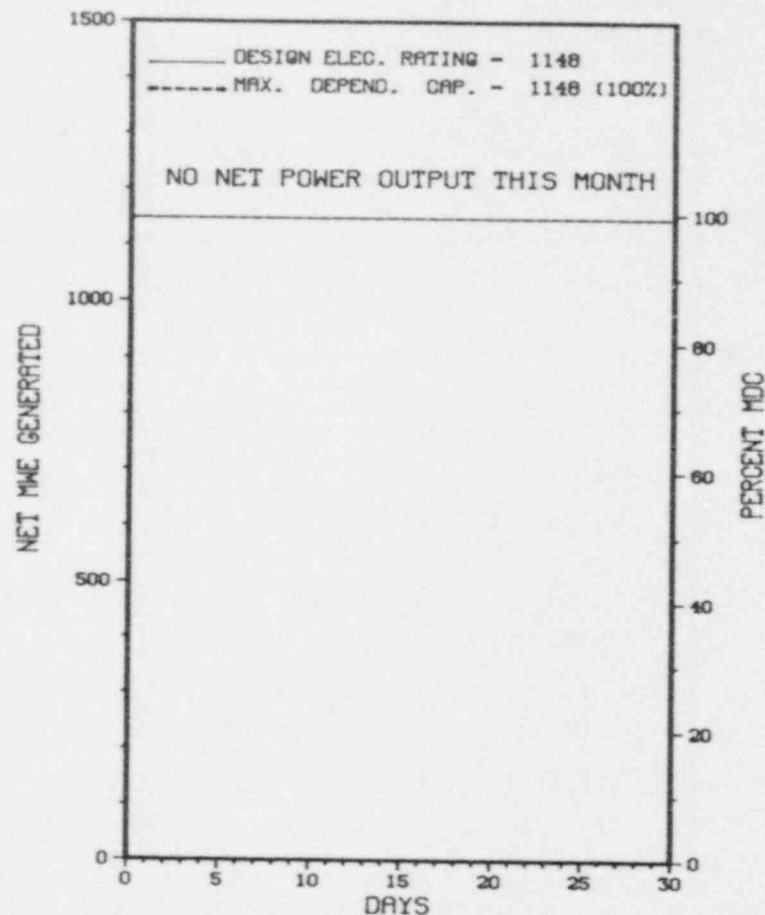
NONE

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

* SEQUOYAH 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SEQUOYAH 1



APRIL 1988

Report Period APR 1988

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 | 719.0 | F | 4 | | | DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS. |

 * SUMMARY *

SEQUOYAH 1 REMAINED SHUTDOWN IN APRIL 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 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....TENNESSEE
COUNTY.....HAMILTON
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...9.5 MI NE OF
CHATTANOOGA, TN
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JULY 5, 1980
DATE ELEC ENER 1ST GENER...JULY 22, 1980
DATE COMMERCIAL OPERATE...JULY 1, 1981
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...CHICKAMAUGA LAKE
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....TENNESSEE VALLEY AUTHORITY
CORPORATE ADDRESS.....6 NORTH 38A LOOKOUT PLACE
CHATTANOOGA, TENNESSEE 37401
CONTRACTOR
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....E. FORD
LICENSING PROJ MANAGER.....E. MCKENNA
DOCKET NUMBER.....50-327
LICENSE & DATE ISSUANCE....DPR-77, TEMBER 17, 1980
PUBLIC DOCUMENT ROOM.....CHATTANOOGA - HAMILTON BICENTENNIAL LIBRARY
1001 BROAD STREET
CHATTANOOGA, TENNESSEE 37402

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION AUGUST 17-21 (87-57): ANNOUNCED INSPECTION TO COMPLETE THE REVIEW OF TVA'S IMPLEMENTATION OF A PROGRAM PER THE REQUIREMENTS OF 10 CFR 50.49 FOR ESTABLISHING AND MAINTAINING THE QUALIFICATION OF ELECTRIC EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. THE INSPECTION IDENTIFIED NO DEFICIENCIES IN THE SQN IMPLEMENTATION OF A PROGRAM TO MEET THE REQUIREMENTS OF 50.49. BASED ON THE INSPECTORS REVIEWS AND EVALUATIONS, INSPECTION FOLLOW-UP ITEMS 50-327, 328/87-22-02 AND -03 WERE CLOSED. WHILE NO DEFICIENCIES WERE IDENTIFIED IN EQUIPMENT QUALIFICATION PROGRAM IMPLEMENTATION, SQN NEEDS TO COMPLETE THE REPLACEMENT ITEMS PROJECT (RIP) BEFORE SQN IS IN COMPLIANCE WITH 10 CFR 50.49. THIS PROJECT IS THE SUBJECT OF A SEPARATE NRC INSPECTION (INSPECTION 50-327, 328/87-40, JULY 13-24, 1987); THEREFORE, COMPLETION OF RIP IS NOT IDENTIFIED FOR FOLLOW-UP IN THIS INSPECTION REPORT.

INSPECTION DECEMBER 6 - FEBRUARY 5 (87-76): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED ON SITE IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION (INCLUDING OPERATIONS PERFORMANCE, SYSTEM LINEUPS, RADIATION PROTECTION, SAFEGUARDS AND HOUSEKEEPING INSPECTIONS); MAINTENANCE OBSERVATIONS; REVIEW OF PREVIOUS INSPECTION FINDINGS; FOLLOWUP OF EVENTS; REVIEW OF LICENSEE IDENTIFIED ITEMS; REVIEW OF IE INFORMATION NOTICES; AND REVIEW OF INSPECTOR FOLLOWUP ITEMS. TWO VIOLATIONS (VIOS) WERE IDENTIFIED. FAILURE TO PERFORM ADEQUATE POST MAINTENANCE TESTING. FAILURE TO FOLLOW PROCEDURE, TWO EXAMPLES. ONE UNRESOLVED ITEM (URI) WAS IDENTIFIED DURING THIS INSPECTION. URIS ARE MATTERS ABOUT WHICH MORE INFORMATION IS REQUIRED TO DETERMINE WHETHER THEY ARE ACCEPTABLE OR MAY INVOLVE VIOLATIONS OR DEVIATIONS. FIFTH VITAL BATTERY CONCERNS. TWO INSPECTOR FOLLOWUP ITEMS (IFIS) WERE IDENTIFIED. ANUBAR FLOW INSTRUMENTS AND VERIFICATION OF HEAT EXCHANGER DIFFERENTIAL PRESSURE. CABLE ROUTING DEFICIENCIES ON UNIT 1 CABLES 1V1936A AND 1V1881A.

INSPECTION JANUARY 6-13 (88-01): THIS ANNOUNCED SPECIAL INSPECTION WAS CONDUCTED IN THE CORPORATE OFFICES IN CHATTANOOGA TO

PAGE 2-380

INSPECTION SUMMARY

REVIEW THE LICENSEE'S CORRECTIVE MEASURES IN RESPONSE TO UNRESOLVED ITEM NO. 50-259,260 AND 296/86-37-01 AND 50-327 AND 328/86-58-01. THE UNRESOLVED ITEM IS CLOSED.

INSPECTION FEBRUARY 8-12 (88-14): THIS SPECIAL ANNOUNCED INSPECTION WAS CONDUCTED TO EVALUATE LICENSEE RESOLUTIONS OF INSPECTOR FOLLOWUP ITEMS RELATED TO EMERGENCY OPERATING PROCEDURES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 7-18 (88-18): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED REVIEW AND EVALUATION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PROVIDE REQUIRED EMERGENCY RESPONSE TRAINING FOR AN INDIVIDUAL DESIGNATED AS TECHNICAL SUPPORT CENTER COMMUNICATOR.

INSPECTION MARCH 19 - APRIL 2 (88-22): THIS ANNOUNCED INSPECTION INVOLVED ONSHIFT AND ONSITE INSPECTIONS BY THE NRC RESTART TASK FORCE. THE MAJORITY OF EXPENDED INSPECTION EFFORT WAS IN THE AREAS OF EXTENDED CONTROL ROOM OBSERVATION AND OPERATIONAL SAFETY VERIFICATION INCLUDING OPERATIONS PERFORMANCE, SYSTEM LINEUPS, RADIATION PROTECTION, AND SAFEGUARDS AND HOUSEKEEPING INSPECTIONS. OTHER AREAS INSPECTED INCLUDED MAINTENANCE OBSERVATIONS, REVIEW OF PREVIOUS INSPECTION FINDINGS FOLLOW-UP OF EVENTS, REVIEW OF LICENSEE IDENTIFIED ITEMS, AND REVIEW OF INSPECTOR FOLLOW-UP ITEMS. DURING THIS PERIOD THERE WAS EXTENSIVE CONTROL ROOM AND PLANT ACTIVITY COVERAGE BY NRC INSPECTORS AND MANAGERS. NO VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION II, CRITERION V, CRITERION XVII, QA TOPICAL REPORT TABLE 17E-1, NUCLEAR QUALITY ASSURANCE MANUAL (NQAM), PART 1, SECTION 2.17, AND NUCLEAR ENGINEERING PROCEDURE 1.2, REV. 1, AS OF OCTOBER 1987, DNE TRAINING AND DOCUMENTATION FAILED TO MEET THE FOLLOWING REQUIREMENTS OF NEP-1.2: (1) THE ASSISTANT CHIEF MECHANICAL ENGINEER'S TRAINING COULD NOT BE CONFIRMED FOR 30 OF 40 REQUIRED TRAINING SUBJECTS. A LEAD MECHANICAL ENGINEER'S TRAINING COULD NOT BE CONFIRMED FOR 35 OF 40 REQUIRED TRAINING SUBJECTS. (2) WATTS BAR SITE-SPECIFIED TRAINING REQUIREMENTS WERE LESS THAN THE TRAINING PROGRAM SPECIFIED BY NEP-1.2. A TYPICAL EXAMPLE CONCERNS A WATTS BAR ASSISTANT PROJECT ENGINEER (APE), WHOSE SITE-SPECIFIED TRAINING REQUIREMENTS DID NOT INCLUDE SEVEN AREAS REQUIRED BY NEP-1.2. (3) THE LICENSEE WAS UNABLE TO CONFIRM THAT REQUIREMENTS OF THE TRAINING MATRIX HAD BEEN ACCOMPLISHED FOR FIVE MECHANICAL ENGINEERING BRANCH (MEB) PERSONNEL AND TWO WATTS BAR APES. SINCE AN ADDITIONAL OPPORTUNITY TO CONFIRM THE ABOVE TRAINING WAS AFFORDED SUBSEQUENT TO THE EXIT INTERVIEW AND THE TRAINING WAS NOT CONFIRMED, THE NRC CONCLUDES THAT THE TRAINING WAS NOT CONDUCTED.

CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION XVIII, CRITERION XVI, AND NQAM, PART 1, SECTION 2.18, REV. 0, 10 AUDITS FROM 1985 TO JANUARY 1987 IDENTIFIED TRAINING DEFICIENCIES WHICH, AT THE TIME OF THE INSPECTION, HAD NOT BEEN CORRECTED.
(8706 4)

CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION V, AND NEP 1.3, REV. 0, CORRECTIONS WERE MADE TO NUMEROUS DOCUMENTS IN A MANNER NOT IN CONFORMANCE WITH THE ONE LINE, INITIAL, AND DATE METHOD.
(8706 5)

CONTRARY TO TECHNICAL SPECIFICATION (TS) 6.8.1, FROM FEBRUARY TO NOVEMBER, 1987, THE OVERTIME LIMITS SPECIFIED IN AI-30 WERE EXCEEDED ON NUMEROUS OCCASIONS WITHOUT PLANT MANAGER OR PLANT SUPERINTENDENT AUTHORIZATION. IN ADDITION, THE FORM DOCUMENTING DEVIATION FROM PLANT STAFF OVERTIME LIMITS WAS NOT ALWAYS FORWARDED TO THE PLANT MANAGER WITHIN THE REQUIRED TIME PERIOD.
CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, PRIOR TO DECEMBER 14, 1987, THE LICENSEE FAILED TO PRESCRIBE IN INSTRUCTIONS OR PROCEDURES THE TRAINING AND QUALIFICATION REQUIREMENTS FOR COMPOSITE CREWS, IN THAT COMPOSITE CREWS WERE IMPLEMENTED PRIOR TO HAVING ESTABLISHED TRAINING AND QUALIFICATION REQUIREMENTS FOR FOREMEN AND GENERAL FOREMAN SUPERVISING PERSONNEL IN OTHER CRAFTS, FOR CRAFTSMEN PERFORMING WORK OUTSIDE OF THEIR CRAFT, AND FOR CRAFTSMEN PERFORMING INDEPENDENT VERIFICATION OUTSIDE OF THEIR CRAFT.
(8707 4)

CONTRARY TO TS 6.8.1, REGULATORY GUIDE 1.33, SYSTEM OPERATING INSTRUCTION (SOI)-1.1, MAIN STEAM, ADMINISTRATIVE INSTRUCTION

INSPECTION STATUS - (CONTINUED)

ENFORCEMENT SUMMARY

(AI)-25, (PART I), REV. 23, "DRAWING CONTROL AFTER LICENSING", AND SURVEILLANCE INSTRUCTION (SI)-187, CONTAINMENT INSPECTION: (1) ON FEBRUARY 7, 1988, SOI-1.1 WAS NOT COMPLIED WITH DURING STARTUP OF THE UNIT 2 MAIN STEAM SYSTEM IN THAT RCS TAVE WAS NOT BETWEEN 300 DEGREES FAHRENHEIT AND 350 DEGREES FAHRENHEIT PRIOR TO WARMING THE MAIN STEAM LINES AND PLACING MAIN STEAM IN SERVICE. THIS NONCOMPLIANCE CONTRIBUTED TO A HIGH STEAM FLOW INDICATION WHICH RESULTED IN A MSIV ISOLATION, GENERATION OF A REACTOR TRIP SIGNAL, AND A FEEDWATER ISOLATION. (2) DURING RECOVERY FROM THIS EVENT LATER ON FEBRUARY 7, 1988, ONLY THE #4 STEAM GENERATOR MSIV WAS OPENED TO EQUALIZE PRESSURE IN THE MAIN STEAM HEADER. THIS NONCOMPLIANCE RESULTED IN A STEAM GENERATOR SWELL CONDITION AND RESULTANT FEEDWATER ISOLATION. (3) ON JANUARY 31, 1988, A PORTION OF AN UNIDENTIFIED DRAWING MARKED "INFORMATION ONLY" WAS USED TO PERFORM WORK ON CONTAINMENT SPRAY SYSTEM FLOW INDICATOR 2-FI-72-34. (4) ON FEBRUARY 1, 1988, FOLLOWING THE LICENSEE'S PERFORMANCE OF SI-187, PORTIONS OF THE CONTAINMENT ICE CONDENSER WERE FOUND TO BE INADEQUATE TO SUPPORT PLANT RESTART DUE TO VARIOUS DEBRIS AND FOREIGN MATERIAL BEING PRESENT WITHIN THE ICE CONDENSER. ON FEBRUARY 2, 1988, FOLLOWING CLEANUP OF THE AREA, THE LICENSEE STATED THAT THE CONTAINMENT ICE CONDENSER WAS AGAIN READY TO SUPPORT RESTART, BUT UPON REINSPECTION THE ICE CONDENSER CONDITION WAS STILL FOUND TO BE DEFICIENT. CONTRARY TO TS 6.8.1 AND APPENDIX A OF REGULATORY GUIDE 1.33, REVISION 2, PRIOR TO JANUARY 4, 1988, THE LICENSEE FAILED TO ADEQUATELY ESTABLISH, IMPLEMENT, AND MAINTAIN PROCEDURES FOR CONFIGURATION CONTROL AS FOLLOWS: (1) THE LICENSEE FAILED TO SPECIFY THE MINIMUM QUALIFICATION LEVEL FOR INDIVIDUALS PERFORMING INDEPENDENT VERIFICATION OF SOI CHECKLISTS AS REQUIRED BY AI-37. THIS RESULTED IN A FAILURE TO PERFORM AND DOCUMENT ADEQUATE TRAINING FOR ALL INDIVIDUALS PERFORMING SOI CHECKLIST VERIFICATIONS. (2) THE LICENSEE FAILED TO IMPLEMENT THE REQUIREMENTS IN AI-58 FOR MAINTAINING CONFIGURATION CONTROL AFTER SOI CHECKLIST COMPLETION, IN THAT THE DOCUMENTED POSITIONS IN THE CONFIGURATION CONTROL SYSTEM FOR INSTRUMENT ROOT VALVE 1-268A, AND THE BREAKERS FOR POST ACCIDENT SAMPLING VALVES ON 120 V VITAL INSTRUMENT POWER BOARDS 2-III AND 2-IV (BREAKER 17 ON EACH BOARD) DISAGREED WITH THE ACTUAL POSITIONS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION XVI, PRIOR TO JANUARY 4, 1988, THE LICENSEE FAILED TO ADEQUATELY IDENTIFY AND CORRECT SOI CHECKLIST DEFICIENCIES IN THAT NUMEROUS SOI CHECKLISTS WERE FOUND TO HAVE SIGNIFICANT DEFICIENCIES AFTER THE LICENSEE HAD COMPLETED CORRECTIVE ACTION FOR SIMILAR DEFICIENCIES AND HAD RESTARTED THE SYSTEM ALIGNMENT PROGRAM USING THOSE CHECKLISTS. AS A RESULT, THE STATUS OF NUMEROUS PIECES OF EQUIPMENT HAD TO BE REVERIFIED TO ENSURE THAT THEIR POSITIONS WERE ADEQUATE FOR MODE CHANGE. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, PRIOR TO JANUARY 6, 1988, THE LICENSEE FAILED TO ESTABLISH OR IMPLEMENT INSTRUCTIONS, PROCEDURES, OR DRAWINGS THAT WOULD HAVE PREVENTED THE STORAGE OF LOOSE CONDUCTIVE MATERIAL WITHIN SAFETY RELATED ELECTRICAL BOARDS. SPECIFICALLY, LOOSE SPARE FUSES WERE FOUND STORED WITHIN 480 VOLT SAFETY-RELATED DIESEL GENERATOR AUXILIARY BOARD 2A1-A WHICH COULD HAVE RENDERED THE PANEL INOPERABLE DURING A SEISMIC EVENT. SUBSEQUENT ELECTRICAL BOARD INSPECTIONS BY THE LICENSEE IDENTIFIED NUMEROUS ADDITIONAL SIGNIFICANT EXAMPLES OF LOOSE CONDUCTIVE MATERIAL STORAGE WITHIN SAFETY-RELATED ELECTRICAL BOARDS.

(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ENVIRONMENTAL QUALIFICATION OF EQUIPMENT

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

MODE 5.

(A1)-25, (PART I), REV. 23, "DRAWING CONTROL AFTER LICENSING", AND SURVEILLANCE INSTRUCTION (SI)-187, CONTAINMENT INSPECTION: (1) ON FEBRUARY 7, 1988, SOI-1.1 WAS NOT COMPLIED WITH DURING STARTUP OF THE UNIT 2 MAIN STEAM SYSTEM IN THAT RCS TAVE WAS NOT BETWEEN 300 DEGREES FAHRENHEIT AND 350 DEGREES FAHRENHEIT PRIOR TO WARMING THE MAIN STEAM LINES AND PLACING MAIN STEAM IN SERVICE. THIS NONCOMPLIANCE CONTRIBUTED TO A HIGH STEAM FLOW INDICATION WHICH RESULTED IN A MSIV ISOLATION, GENERATION OF A REACTOR TRIP SIGNAL, AND A FEEDWATER ISOLATION. (2) DURING RECOVERY FROM THIS EVENT LATER ON FEBRUARY 7, 1988, ONLY THE #4 STEAM GENERATOR MSIV WAS OPENED TO EQUALIZE PRESSURE IN THE MAIN STEAM HEADER. THIS NONCOMPLIANCE RESULTED IN A STEAM GENERATOR SWELL CONDITION AND RESULTANT FEEDWATER ISOLATION. (3) ON JANUARY 31, 1988, A PORTION OF AN UNIDENTIFIED DRAWING MARKED "INFORMATION ONLY" WAS USED TO PERFORM WORK ON CONTAINMENT SPRAY SYSTEM FLOW INDICATOR 2-FI-72-34. (4) ON FEBRUARY 1, 1988, FOLLOWING THE LICENSEE'S PERFORMANCE OF SI-187, PORTIONS OF THE CONTAINMENT ICE CONDENSER WERE FOUND TO BE INADEQUATE TO SUPPORT PLANT RESTART DUE TO VARIOUS DEBRIS AND FOREIGN MATERIAL BEING PRESENT WITHIN THE ICE CONDENSER. ON FEBRUARY 2, 1988, FOLLOWING CLEANUP OF THE AREA, THE LICENSEE STATED THAT THE CONTAINMENT ICE CONDENSER WAS AGAIN READY TO SUPPORT RESTART, BUT UPON REINSPECTION THE ICE CONDENSER CONDITION WAS STILL FOUND TO BE DEFICIENT. CONTRARY TO TS 6.8.1 AND APPENDIX A OF REGULATORY GUIDE 1.33, REVISION 2, PRIOR TO JANUARY 4, 1988, THE LICENSEE FAILED TO ADEQUATELY ESTABLISH, IMPLEMENT, AND MAINTAIN PROCEDURES FOR CONFIGURATION CONTROL AS FOLLOWS: (1) THE LICENSEE FAILED TO SPECIFY THE MINIMUM QUALIFICATION LEVEL FOR INDIVIDUALS PERFORMING INDEPENDENT VERIFICATION OF SOI CHECKLISTS AS REQUIRED BY AI-37. THIS RESULTED IN A FAILURE TO PERFORM AND DOCUMENT ADEQUATE TRAINING FOR ALL INDIVIDUALS PERFORMING SOI CHECKLIST VERIFICATIONS. (2) THE LICENSEE FAILED TO IMPLEMENT THE REQUIREMENTS IN AI-58 FOR MAINTAINING CONFIGURATION CONTROL AFTER SOI CHECKLIST COMPLETION, IN THAT THE DOCUMENTED POSITIONS IN THE CONFIGURATION CONTROL SYSTEM FOR INSTRUMENT ROOT VALVE 1-268A, AND THE BREAKERS FOR POST ACCIDENT SAMPLING VALVES ON 120 V VITAL INSTRUMENT POWER BOARDS 2-III AND 2-IV (BREAKER 17 ON EACH BOARD) DISAGREED WITH THE ACTUAL POSITIONS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION XVI, PRIOR TO JANUARY 4, 1988, THE LICENSEE FAILED TO ADEQUATELY IDENTIFY AND CORRECT SOI CHECKLIST DEFICIENCIES IN THAT NUMEROUS SOI CHECKLISTS WERE FOUND TO HAVE SIGNIFICANT DEFICIENCIES AFTER THE LICENSEE HAD COMPLETED CORRECTIVE ACTION FOR SIMILAR DEFICIENCIES AND HAD RESTARTED THE SYSTEM ALIGNMENT PROGRAM USING THOSE CHECKLISTS. AS A RESULT, THE STATUS OF NUMEROUS PIECES OF EQUIPMENT HAD TO BE REVERIFIED TO ENSURE THAT THEIR POSITIONS WERE ADEQUATE FOR MODE CHANGE. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, PRIOR TO JANUARY 6, 1988, THE LICENSEE FAILED TO ESTABLISH OR IMPLEMENT INSTRUCTIONS, PROCEDURES, OR DRAWINGS THAT WOULD HAVE PREVENTED THE STORAGE OF LOOSE CONDUCTIVE MATERIAL WITHIN SAFETY RELATED ELECTRICAL BOARDS. SPECIFICALLY, LOOSE SPARE FUSES WERE FOUND STORED WITHIN 480 VOLT SAFETY-RELATED DIESEL GENERATOR AUXILIARY BOARD 2A1-A WHICH COULD HAVE RENDERED THE PANEL INOPERABLE DURING A SEISMIC EVENT. SUBSEQUENT ELECTRICAL BOARD INSPECTIONS BY THE LICENSEE IDENTIFIED NUMEROUS ADDITIONAL SIGNIFICANT EXAMPLES OF LOOSE CONDUCTIVE MATERIAL STORAGE WITHIN SAFETY-RELATED ELECTRICAL BOARDS.

(8800 4)

OTHER ITEMS

ENVIRONMENTAL QUALIFICATION OF EQUIPMENT.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

MODE 5.

INSPECTION STATUS - (CONTINUED)

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*****  
X          SEQUOYAH: 1          X  
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LAST IE SITE INSPECTION DATE: MARCH 19 - APRIL 2, 1988 +

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-013 | 03/14/88 | 04/01/88 | RADIATION MONITOR TCH SPEC SURVEILLANCE REQUIREMENT OMMITTED FROM SURVEILLANCE PROGRAM DUE TO AN OVERSIGHT |

1. Docket: 50-328 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: DAVID DUPRE (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):

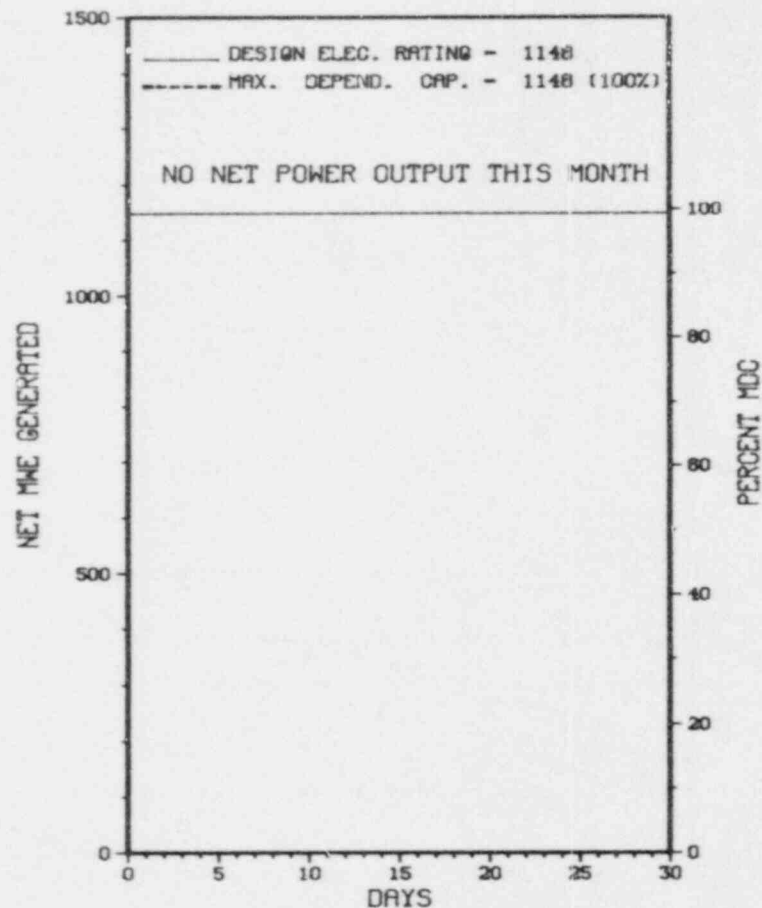
11. Reasons for Restrictions, If Any:
NONE

| | MONTH | YEAR | CUMULATIVE |
|---|---------------|----------------|-------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>51,864.0</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>-9,153</u> | <u>-51,751</u> | <u>22,456,395</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>.0</u> | <u>41.4</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>.0</u> | <u>41.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>.0</u> | <u>37.7</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>.0</u> | <u>37.7</u> |
| 24. Unit Forced Outage Rate | <u>100.0</u> | <u>100.0</u> | <u>54.3</u> |
| 25. Forced Outage Hours | <u>719.0</u> | <u>2,903.0</u> | <u>25,546.3</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
<u>NONE</u> | | | |
| 27. If Currently Shutdown Estimated Startup Date: <u>05/01/88</u> | | | |

* SEQUOYAH 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SEQUOYAH 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* SEQUOYAH 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|------------------|--|
| 1 | 03/21/88 | F | 185.0 | F | 4 | | | DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS. |
| 2 | 04/07/88 | F | 513.2 | F | 9 | | | REPAIR NO. 3 S/G TUBE LEAK. |
| 3 | 04/30/88 | F | 20.8 | F | 9 | | | MAINTENANCE OF THE PRESSURIZER SAFETY VALVES. |

* SUMMARY *

SEQUOYAH 2 REMAINED SHUTDOWN IN APRIL FOR REASONS DISCUSSED 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) |

* SEQUOYAH 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....TENNESSEE
COUNTY.....HAMILTON
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...9.5 MI NE OF
CHATTANOOGA, TN
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...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
PUBLIC DOCUMENT ROOM.....CHATTANOOGA - HAMILTON BICENTENNIAL LIBRARY
1001 BROAD STREET
CHATTANOOGA, TENNESSEE 37402

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION AUGUST 17-21 (87-57): ANNOUNCED INSPECTION TO COMPLETE THE REVIEW OF TVA'S IMPLEMENTATION OF A PROGRAM PER THE REQUIREMENTS OF 10 CFR 50.49 FOR ESTABLISHING AND MAINTAINING THE QUALIFICATION OF ELECTRIC EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. THE INSPECTION IDENTIFIED NO DEFICIENCIES IN THE SQN IMPLEMENTATION OF A PROGRAM TO MEET THE REQUIREMENTS OF 50.49. BASED ON THE INSPECTORS REVIEWS AND EVALUATIONS, INSPECTION FOLLOW-UP ITEMS 50-327, 328/87-22-02 AND -03 WERE CLOSED. WHILE NO DEFICIENCIES WERE IDENTIFIED IN EQUIPMENT QUALIFICATION PROGRAM IMPLEMENTATION, SQN NEEDS TO COMPLETE THE REPLACEMENT ITEMS PROJECT (RIP) BEFORE SQN IS IN COMPLIANCE WITH 10 CFR 50.49. THIS PROJECT IS THE SUBJECT OF A SEPARATE NRC INSPECTION (INSPECTION 50-327, 328/87-40, JULY 13-24, 1987); THEREFORE, COMPLETION OF RIP IS NOT IDENTIFIED FOR FOLLOW-UP IN THIS INSPECTION REPORT.

INSPECTION DECEMBER 6 - FEBRUARY 5 (87-76): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED ON SITE IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION (INCLUDING OPERATIONS PERFORMANCE, SYSTEM LINEUPS, RADIATION PROTECTION, SAFEGUARDS AND HOUSEKEEPING INSPECTIONS); MAINTENANCE OBSERVATIONS; REVIEW OF PREVIOUS INSPECTION FINDINGS; FOLLOWUP OF EVENTS; REVIEW OF LICENSEE IDENTIFIED ITEMS; REVIEW OF IE INFORMATION NOTICES; AND REVIEW OF INSPECTOR FOLLOWUP ITEMS. TWO VIOLATIONS (VIOS) WERE IDENTIFIED. FAILURE TO PERFORM ADEQUATE POST MAINTENANCE TESTING. FAILURE TO FOLLOW PROCEDURE, TWO EXAMPLES. ONE UNRESOLVED ITEM (URI) WAS IDENTIFIED DURING THIS INSPECTION. URIS ARE MATTERS ABOUT WHICH MORE INFORMATION IS REQUIRED TO DETERMINE WHETHER THEY ARE ACCEPTABLE OR MAY INVOLVE VIOLATIONS OR DEVIATIONS. FIFTH VITAL BATTERY CONCERNS. TWO INSPECTOR FOLLOWUP ITEMS (IFIS) WERE IDENTIFIED. ANUGAR FLOW INSTRUMENTS AND VERIFICATION OF HEAT EXCHANGER DIFFERENTIAL PRESSURE. CABLE ROUTING DEFICIENCIES ON UNIT 1 CABLES 1V1936A AND 1V1881A.

INSPECTION JANUARY 6-13 (88-01): THIS ANNOUNCED SPECIAL INSPECTION WAS CONDUCTED IN THE CORPORATE OFFICES IN CHATTANOOGA TO

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*              SEQUOYAH 2              *
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INSPECTION SUMMARY

REVIEW THE LICENSEE'S CORRECTIVE MEASURES IN RESPONSE TO UNRESOLVED ITEM NO. 50-259,260 AND 296/86-37-01 AND 50-327 AND 328/86-58-01. THE UNRESOLVED ITEM IS CLOSED.

INSPECTION FEBRUARY 8-12 (88-14): THIS SPECIAL ANNOUNCED INSPECTION WAS CONDUCTED TO EVALUATE LICENSEE RESOLUTIONS OF INSPECTOR FOLLOWUP ITEMS RELATED TO EMERGENCY OPERATING PROCEDURES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 7-18 (88-18): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED REVIEW AND EVALUATION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PROVIDE REQUIRED EMERGENCY RESPONSE TRAINING FOR AN INDIVIDUAL DESIGNATED AS TECHNICAL SUPPORT CENTER COMMUNICATOR.

INSPECTION MARCH 19 - APRIL 2 (88-22): THIS ANNOUNCED INSPECTION INVOLVED ONSHIFT AND ONSITE INSPECTIONS BY THE NRC RESTART TASK FORCE. THE MAJORITY OF EXPENDED INSPECTION EFFORT WAS IN THE AREAS OF EXTENDED CONTROL ROOM OBSERVATION AND OPERATIONAL SAFETY VERIFICATION INCLUDING OPERATIONS PERFORMANCE, SYSTEM LINEUPS, RADIATION PROTECTION, AND SAFEGUARDS AND HOUSEKEEPING INSPECTIONS. OTHER AREAS INSPECTED INCLUDED MAINTENANCE OBSERVATIONS, REVIEW OF PREVIOUS INSPECTION FINDINGS FOLLOW-UP OF EVENTS, REVIEW OF LICENSEE IDENTIFIED ITEMS, AND REVIEW OF INSPECTOR FOLLOW-UP ITEMS. DURING THIS PERIOD THERE WAS EXTENSIVE CONTROL ROOM AND PLANT ACTIVITY COVERAGE BY NRC INSPECTORS AND MANAGERS. NO VIOLATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION II, CRITERION V, CRITERION XVII, QA TOPICAL REPORT TABLE 17E-1. NUCLEAR QUALITY ASSURANCE MANUAL (NQAM), PART 1, SECTION 2.17, AND NUCLEAR ENGINEERING PROCEDURE 1.2, REV. 1, AS OF OCTOBER 1987, DNE TRAINING AND DOCUMENTATION FAILED TO MEET THE FOLLOWING REQUIREMENTS OF NEP-1.2: (1) THE ASSISTANT CHIEF MECHANICAL ENGINEER'S TRAINING COULD NOT BE CONFIRMED FOR 16 OF 40 REQUIRED TRAINING SUBJECTS. A LEAD MECHANICAL ENGINEER'S TRAINING COULD NOT BE CONFIRMED FOR 35 OF 40 REQUIRED TRAINING SUBJECTS. (2) WATTS BAR SITE-SPECIFIED TRAINING REQUIREMENTS WERE LESS THAN THE TRAINING PROGRAM SPECIFIED BY NEP-1.2. A TYPICAL EXAMPLE CONCERNS A WATTS BAR ASSISTANT PROJECT ENGINEER (APE), WHOSE SITE-SPECIFIED TRAINING REQUIREMENTS DID NOT INCLUDE SEVEN AREAS REQUIRED BY NEP-1.2. (3) THE LICENSEE WAS UNABLE TO CONFIRM THAT REQUIREMENTS OF THE TRAINING MATRIX HAD BEEN ACCOMPLISHED FOR FIVE MECHANICAL ENGINEERING BRANCH (MEB) PERSONNEL AND TWO WATTS BAR APES. SINCE AN ADDITIONAL OPPORTUNITY TO CONFIRM THE ABOVE TRAINING WAS AFFORDED SUBSEQUENT TO THE EXIT INTERVIEW AND THE TRAINING WAS NOT CONFIRMED, THE NRC CONCLUDES THAT THE TRAINING WAS NOT CONDUCTED.

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CONTRARY TO 10 CFR PART 50, APPENDIX B, CRITERION V, AND NEP 1.3, REV. 0, CORRECTIONS WERE MADE TO NUMEROUS DOCUMENTS IN A MANNER NOT IN CONFORMANCE WITH THE ONE LINE, INITIAL, AND DATE METHOD.
(8706 5)

CONTRARY TO TECHNICAL SPECIFICATION (TS) 6.8.1, FROM FEBRUARY TO NOVEMBER, 1987, THE OVERTIME LIMITS SPECIFIED IN AI-30 WERE EXCEEDED ON NUMEROUS OCCASIONS WITHOUT PLANT MANAGER OR PLANT SUPERINTENDENT AUTHORIZATION. IN ADDITION, THE FORM DOCUMENTING DEVIATION FROM PLANT STAFF OVERTIME LIMITS WAS NOT ALWAYS FORWARDED TO THE PLANT MANAGER WITHIN THE REQUIRED TIME PERIOD. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, PRIOR TO DECEMBER 14, 1987, THE LICENSEE FAILED TO PRESCRIBE IN INSTRUCTIONS OR PROCEDURES THE TRAINING AND QUALIFICATION REQUIREMENTS FOR COMPOSITE CREWS, IN THAT COMPOSITE CREWS WERE IMPLEMENTED PRIOR TO HAVING ESTABLISHED TRAINING AND QUALIFICATION REQUIREMENTS FOR FOREMEN AND GENERAL FOREMAN SUPERVISING PERSONNEL IN OTHER CRAFTS, FOR CRAFTSMEN PERFORMING WORK OUTSIDE OF THEIR CRAFT, AND FOR CRAFTSMEN PERFORMING INDEPENDENT VERIFICATION OUTSIDE OF THEIR CRAFT.

(8707 4)

CONTRARY TO TS 6.8.1, REGULATORY GUIDE 1.33, SYSTEM OPERATING INSTRUCTION (SOI)-1.1, MAIN STEAM, ADMINISTRATIVE INSTRUCTION

ENFORCEMENT SUMMARY

(A1)-25, (PART I), REV. 23, "DRAWING CONTROL AFTER LICENSING", AN "SURVEILLANCE INSTRUCTION (SI)-187, CONTAINMENT INSPECTION (CI) ON FEBRUARY 7, 1988, SOI-1.1 WAS NOT COMPLIED WITH DURING STARTUP OF THE UNIT 2 MAIN STEAM SYSTEM IN THAT RCS TAVE WAS NOT BETWEEN 300 DEGREES FAHRENHEIT AND 350 DEGREES FAHRENHEIT PRIOR TO WARMING THE MAIN STEAM LINES AND PLACING MAIN STEAM IN SERVICE. THIS NONCOMPLIANCE CONTRIBUTED TO A HIGH STEAM FLOW INDICATION WHICH RESULTED IN A MSIV ISOLATION, GENERATION OF A REACTOR TRIP SIGNAL, AND A FEEDWATER ISOLATION. (2) DURING RECOVERY FROM THIS EVENT LATER ON FEBRUARY 7, 1988, ONLY THE #4 STEAM GENERATOR MSIV WAS OPENED TO EQUALIZE PRESSURE IN THE MAIN STEAM HEADER. THIS NONCOMPLIANCE RESULTED IN A STEAM GENERATOR SWELL CONDITION AND RESULTANT FEEDWATER ISOLATION. (3) ON JANUARY 31, 1988, A PORTION OF AN UNIDENTIFIED DRAWING MARKED "INFORMATION ONLY" WAS USED TO PERFORM WORK ON CONTAINMENT SPRAY SYSTEM FLOW INDICATOR 2-FI-72-34. (4) ON FEBRUARY 1, 1988, FOLLOWING THE LICENSEE'S PERFORMANCE OF SI-187, PORTIONS OF THE CONTAINMENT ICE CONDENSER WERE FOUND TO BE INADEQUATE TO SUPPORT PLANT RESTART DUE TO VARIOUS DEBRIS AND FOREIGN MATERIAL BEING PRESENT WITHIN THE ICE CONDENSER. ON FEBRUARY 2, 1988, FOLLOWING CLEANUP OF THE AREA, THE LICENSEE STATED THAT THE CONTAINMENT ICE CONDENSER WAS AGAIN READY TO SUPPORT RESTART, BUT UPON REINSPECTION THE ICE CONDENSER CONDITION WAS STILL FOUND TO BE DEFICIENT. CONTRARY TO TS 6.8.1 AND APPENDIX A OF REGULATORY GUIDE 1.33, REVISION 2, PRIOR TO JANUARY 4, 1988, THE LICENSEE FAILED TO ADEQUATELY ESTABLISH, IMPLEMENT, AND MAINTAIN PROCEDURES FOR CONFIGURATION CONTROL AS FOLLOWS: (1) THE LICENSEE FAILED TO SPECIFY THE MINIMUM QUALIFICATION LEVEL FOR INDIVIDUALS PERFORMING INDEPENDENT VERIFICATION OF SOI CHECKLISTS AS REQUIRED BY AI-37. THIS RESULTED IN A FAILURE TO PERFORM AND DOCUMENT ADEQUATE TRAINING FOR ALL INDIVIDUALS PERFORMING SOI CHECKLIST VERIFICATIONS. (2) THE LICENSEE FAILED TO IMPLEMENT THE REQUIREMENTS IN AI-58 FOR MAINTAINING CONFIGURATION CONTROL AFTER SOI CHECKLIST COMPLETION, IN THAT THE DOCUMENTED POSITIONS IN THE CONFIGURATION CONTROL SYSTEM FOR INSTRUMENT ROOT VALVE 1-268A, AND THE BREAKERS FOR POST ACCIDENT SAMPLING VALVES ON 120 V VITAL INSTRUMENT POWER BOARDS 2-III AND 2-IV (BREAKER 17 ON EACH BOARD) DISAGREED WITH THE ACTUAL POSITIONS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION XVI, PRIOR TO JANUARY 4, 1988, THE LICENSEE FAILED TO ADEQUATELY IDENTIFY AND CORRECT SOI CHECKLIST DEFICIENCIES IN THAT NUMEROUS SOI CHECKLISTS WERE FOUND TO HAVE SIGNIFICANT DEFICIENCIES AFTER THE LICENSEE HAD COMPLETED CORRECTIVE ACTION FOR SIMILAR DEFICIENCIES AND HAD RESTARTED THE SYSTEM ALIGNMENT PROGRAM USING THOSE CHECKLISTS. AS A RESULT, THE STATUS OF NUMEROUS PIECES OF EQUIPMENT HAD TO BE REVERIFIED TO ENSURE THAT THEIR POSITIONS WERE ADEQUATE FOR MODE CHANGE. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION V, PRIOR TO JANUARY 6, 1988, THE LICENSEE FAILED TO ESTABLISH OR IMPLEMENT INSTRUCTIONS, PROCEDURES, OR DRAWINGS THAT WOULD HAVE PREVENTED THE STORAGE OF LOOSE CONDUCTIVE MATERIAL WITHIN SAFETY RELATED ELECTRICAL BOARDS. SPECIFICALLY, LOOSE SPARE FUSES WERE FOUND STORED WITHIN 480 VOLT SAFETY-RELATED DIESEL GENERATOR AUXILIARY BOARD 2A1-A WHICH COULD HAVE RENDERED THE PANEL INOPERABLE DURING A SEISMIC EVENT. SUBSEQUENT ELECTRICAL BOARD INSPECTIONS BY THE LICENSEE IDENTIFIED NUMEROUS ADDITIONAL SIGNIFICANT EXAMPLES OF LOOSE CONDUCTIVE MATERIAL STORAGE WITHIN SAFETY-RELATED ELECTRICAL BOARDS. CONTRARY TO TECHNICAL SPECIFICATION 6.4, DETAILED WRITTEN PROCEDURES WERE NOT FOLLOWED BY EITHER COMPLYING WITH THE STEPS OR IMPLEMENTING A CHANGE PRIOR TO PROCEEDING. THIS RESULTED IN THE FAILURE TO PROPERLY ESTABLISH THE INITIAL CONDITIONS LISTED BELOW: (1) ON JANUARY 9, 1988, TEST PROCEDURE 1-PT-29.1, "TURBINE INLET VALVE TEST", WAS PERFORMED WITHOUT MEETING INITIAL CONDITION 3.5 OF THE TEST, WHICH REQUIRES THE ROD CONTROL SYSTEM TO BE IN THE AUTOMATIC CONTROL MODE. THE TEST WAS PERFORMED WITH THE ROD CONTROL SYSTEM IN THE MANUAL MODE. (2) ON JANUARY 9 AND 23, 1988, UNIT 1 AND UNIT 2 RESPECTIVELY, WERE RAMPED DOWN FROM 100% TO LESS THAN 75% POWER IN ACCORDANCE WITH OPERATIONS PROCEDURE OP-2.1.2, "DECREASING POWER FROM EXISTING POWER LEVEL TO 2%", WITHOUT MEETING INITIAL CONDITION 3.4 OF THE PROCEDURE, WHICH REQUIRED THE PORTABLE NARROW RANGE STEAM GENERATOR LEVEL INDICATORS TO BE IN PLACE AND OPERATING. (3) ON JANUARY 9, 1988, UNIT 1 WAS RAMPED DOWN FROM 100% TO LESS THAN 75% POWER IN ACCORDANCE WITH OPERATIONS PROCEDURE OP-2.1.2, "DECREASING POWER FROM EXISTING POWER LEVEL TO 2%", WITHOUT PERFORMING STEP 3.7.1 THROUGH 3.7.4 OF THE PROCEDURE, WHICH REQUIRED THAT JUMPERS BE INSTALLED TO REMOVE THE SEAL-IN FUNCTION FROM CONTROLLERS OF MOISTURE SEPARATOR REHEATER STEAM SUPPLY ISOLATION VALVES. CONTRARY TO TS 6.4J, ON FEBRUARY 23, 1988, FIRE PROTECTION EQUIPMENT REQUIRED TO BE MAINTAINED IN SITE FIRE HOSE HOUSES WAS REMOVED AND USED FOR NON-FIRE PROTECTION PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE LOSS PREVENTION COORDINATOR. REVIEW OF TWELVE SURVEILLANCES OF HOSE HOUSES PERFORMED BY THE LICENSEE IN 1987 AND 1988 IDENTIFIED TEN ADDITIONAL CASES WHERE EQUIPMENT HAD BEEN REMOVED WITHOUT WRITTEN PERMISSION OF THE LOSS PREVENTION COORDINATOR.

(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

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

* SEQUOYAH 2 *

OTHER ITEMS

NONE.

ENVIRONMENTAL QUALIFICATION OF EQUIPMENT.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

MODE 5.

LAST IE SITE INSPECTION DATE: MARCH 19 - APRIL 2, 1988 +

INSPECTION REPORT NO: 50-328/88-22 +

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

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| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-011 | 03/06/88 | 04/01/88 | SURVEILLANCE REQUIREMENT USED TO VERIFY BORON CONCENTRATION IN THE COLD LEG ACCUMULATORS WAS NOT
PERF WITHIN APPL TIME |
| 88-012 | 03/05/88 | 04/01/88 | IMPROPER OPERABILITY DETERMINATIONS RELATING TO LEVEL CONTROL VALVE RESULTED IN NOT ENTERING THE
APPL LCO IN A TIMELY MAN |

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1. Docket: 50-498 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: C.A. AYALA (512) 972-8628

4. Licensed Thermal Power (MWt): 3800

5. Nameplate Rating (Gross MWe):

6. Design Electrical Rating (Net MWe): 1250

7. Maximum Dependable Capacity (Gross MWe): 1250

8. Maximum Dependable Capacity (Net MWe): 1250

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>719.0</u> | <u>758.1</u> | <u>758.1</u> |
| 13. Hours Reactor Critical | <u>666.0</u> | <u>678.3</u> | <u>678.3</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>602.0</u> | <u>602.6</u> | <u>602.6</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>663,115</u> | <u>666,554</u> | <u>666,554</u> |
| 18. Gross Elec Ener (MWH) | <u>167,270</u> | <u>167,313</u> | <u>167,313</u> |
| 19. Net Elec Ener (MWH) | <u>120,786</u> | <u>119,415</u> | <u>119,415</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>74.6</u> | <u>113.1</u> | <u>113.1</u> |

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

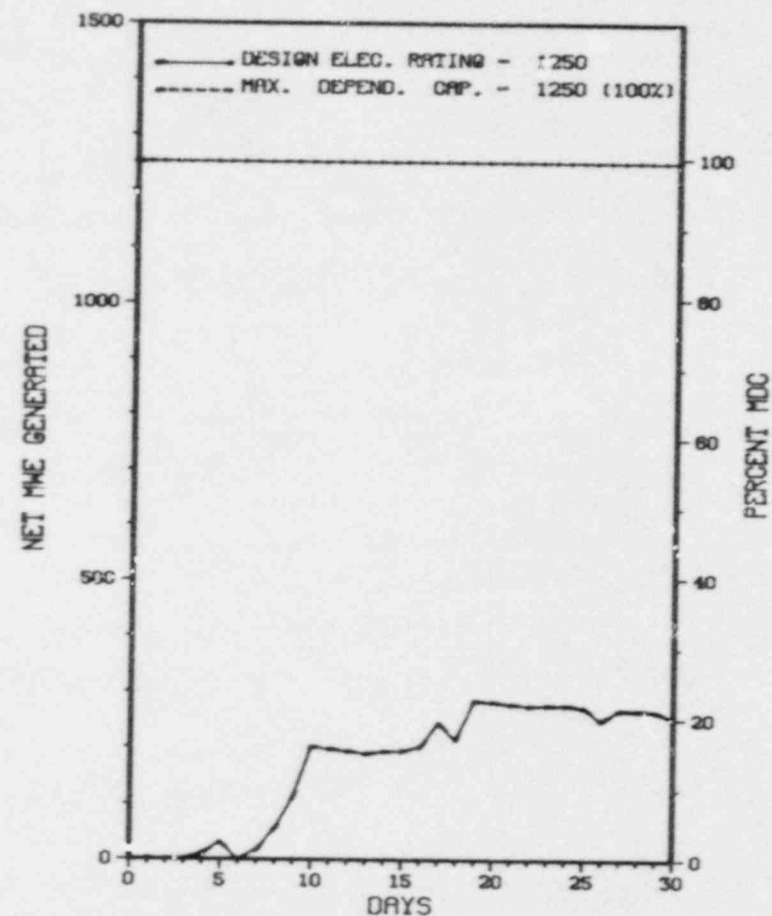
MAINTENANCE - 5/1/88 - 16 DAY DURATION.

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

* SOUTH TEXAS 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SOUTH TEXAS 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* SOUTH TEXAS 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-01 | 03/30/88 | F | 69.4 | B | 4 | 88-026 | EL | RLY-86 | REACTOR TRIP DUE TO SERIES OF MAIN GENERATOR LOCKOUT AND MAIN TRANSFORMER LOCKOUT RELAYS TRIPPING WHEN A TEST SIGNAL WAS INCORRECTLY INSERTED INTO THE GENERATOR CONTROL CIRCUITS. |
| 88-02 | 04/04/88 | S | 8.9 | B | 9 | | TA | TRB | TURBINE OVERSPEED TEST (RX CRITICAL). |
| 88-03 | 04/05/88 | S | 4.6 | B | 9 | | TA | TRB | TURBINE OVERSPEED TEST (RX CRITICAL). |
| 88-04 | 04/05/88 | S | 1.1 | B | 9 | | TA | TRB | TURBINE OVERSPEED TEST (RX CRITICAL). |
| 88-05 | 04/06/88 | S | 27.8 | B | 9 | | TA | TRB | STEAM LEAK REPAIR (RX CRITICAL). |
| 88-06 | 04/07/88 | F | 5.2 | D | 9 | | VI | TRB | SHUTDOWN DUE TO TWO CONTROL ROOM HVAC MAKEUP AND ONE STANDBY DIESEL GENERATOR INOPERABLE. TECH SPEC SHUTDOWN REQUIREMENT (RX CRITICAL). |

* SUMMARY *

SOUTH TEXAS 1 BEGAN APRIL IN A FORCED OUTAGE. THE UNIT OPERATED AT 30% POWER DURING COMPLETION OF STARTUP TESTING PROGRAM WHILE INCURRING 5 OUTAGES.

| 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) |

* SOUTH TEXAS 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....TEXAS

COUNTY.....MATAGORDA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...12 MI SSW OF
BAY CITY, TEX

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MARCH 8, 1988

DATE ELEC ENER 1ST GENER...MARCH 30, 1988

DATE COMMERCIAL OPERATE....*****

CONDENSER COOLING METHOD...CC

CONDENSER COOLING WATER...COLORADO RIVER

ELECTRIC RELIABILITY
COUNCIL.....ELECTRIC RELIABILITY
COUNCIL OF TEXAS

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....HOUSTON LIGHTING & POWER COMPANY

CORPORATE ADDRESS.....P.O. BOX 1700
HOUSTON, TEXAS 77001

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....EBASCO

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV

IE RESIDENT INSPECTOR.....C. JOHNSON

LICENSING PROJ MANAGER.....N. KADAMBI
DOCKET NUMBER.....50-498

LICENSE & DATE ISSUANCE...NPF-76, MARCH 22, 1988

PUBLIC DOCUMENT ROOM.....GLEN ROSE-SOMERVELL LIBRARY
BERNARD AND HIGHWAY 144
P.O. BOX 417
GLEN ROSE, TX. 76043

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 APR 1988

INSPECTION STATUS - (CONTINUED)

* SOUTH TEXAS 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

REPORTS FROM LICENSEE

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

INFO. NOT SUPPLIED BY REGION

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1. Docket: 50-335 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>99,575.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,882.1</u> | <u>75,433.9</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>205.3</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,876.0</u> | <u>73,846.5</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>39.3</u> |
| 17. Gross Therm Ener (MWH) | <u>1,941,214</u> | <u>7,729,126</u> | <u>189,074,763</u> |
| 18. Gross Elec Ener (MKH) | <u>651,900</u> | <u>2,601,330</u> | <u>62,124,915</u> |
| 19. Net Elec Ener (MWH) | <u>619,590</u> | <u>2,471,385</u> | <u>58,662,974</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>99.1</u> | <u>74.2</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>99.1</u> | <u>74.2</u> |
| 22. Unit Cap Factor (MDC Net) | <u>102.7</u> | <u>101.5</u> | <u>70.2</u> |
| 23. Unit Cap Factor (DER Net) | <u>103.8</u> | <u>102.6</u> | <u>71.0</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.9</u> | <u>3.9</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>27.0</u> | <u>2,967.9</u> |

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

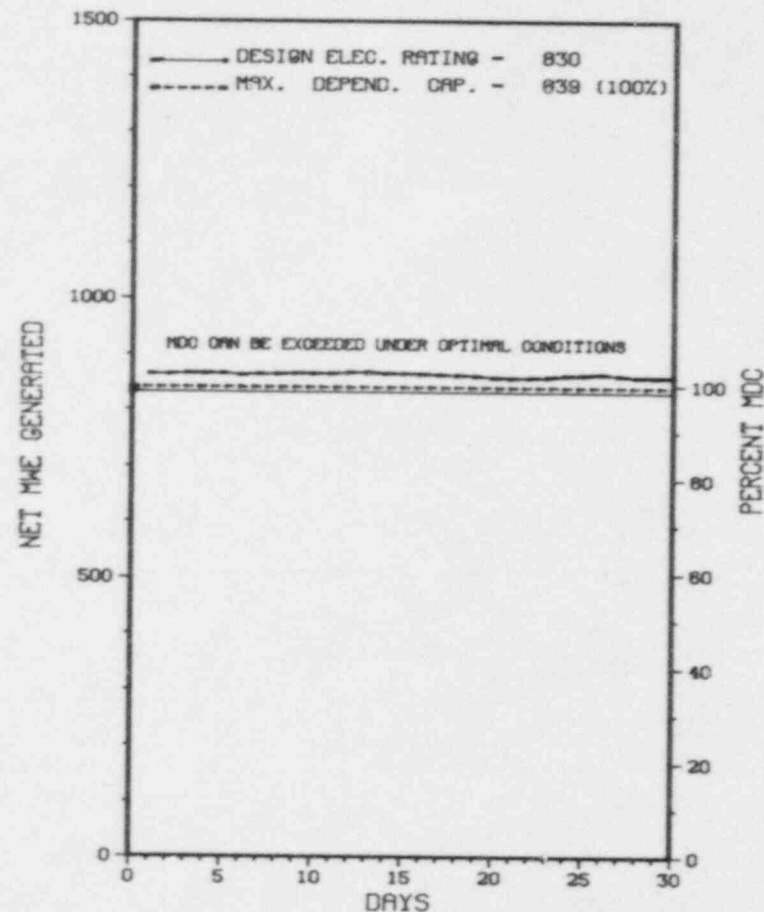
NONE

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

* ST LUCIE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * ST LUCIE 1 *

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

NONE

 * SUMMARY *

ST. LUCIE 1 OPERATED ROUTINELY IN APRIL 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)

* ST LUCIE 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....FLORIDA
COUNTY.....ST LUCIE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...12 MI SE OF
FT. PIERCE, FLA

TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...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 FEBRUARY 8-12 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AREAS; PHYSICAL BARRIERS - VITAL AREAS; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PACKAGES; DETECTION AIDS - VITAL AREAS; AND ALARM STATIONS. TWO VIOLATIONS OF REGULATORY REQUIREMENTS AND ONE INSPECTOR FOLLOWUP ITEM WERE IDENTIFIED WITHIN THE AREAS INSPECTED.

1 INSPECTION MARCH 14-18 (88-04): THIS SPECIAL, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LIQUID AND GASEOUS RADWASTE SYSTEMS, OFFSITE DOSE CALCULATION METHODOLOGY, AND EFFLUENT MONITORING AND SAMPLING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

Report Period APR 1988

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

* ST LUCIE 1 *

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: MARCH 14-18, 1988 +

INSPECTION REPORT NO: 50-335/88-04 +

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

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| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---------|
| ----- | | | |
| NONE. | | | |

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1. Docket: 50-389 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (Mwt): 2700

5. Nameplate Rating (Gross MWe): 850

6. Design Electrical Rating (Net MWe): 830

7. Maximum Dependable Capacity (Gross MWe): 882

8. Maximum Dependable Capacity (Net MWe): 839

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

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

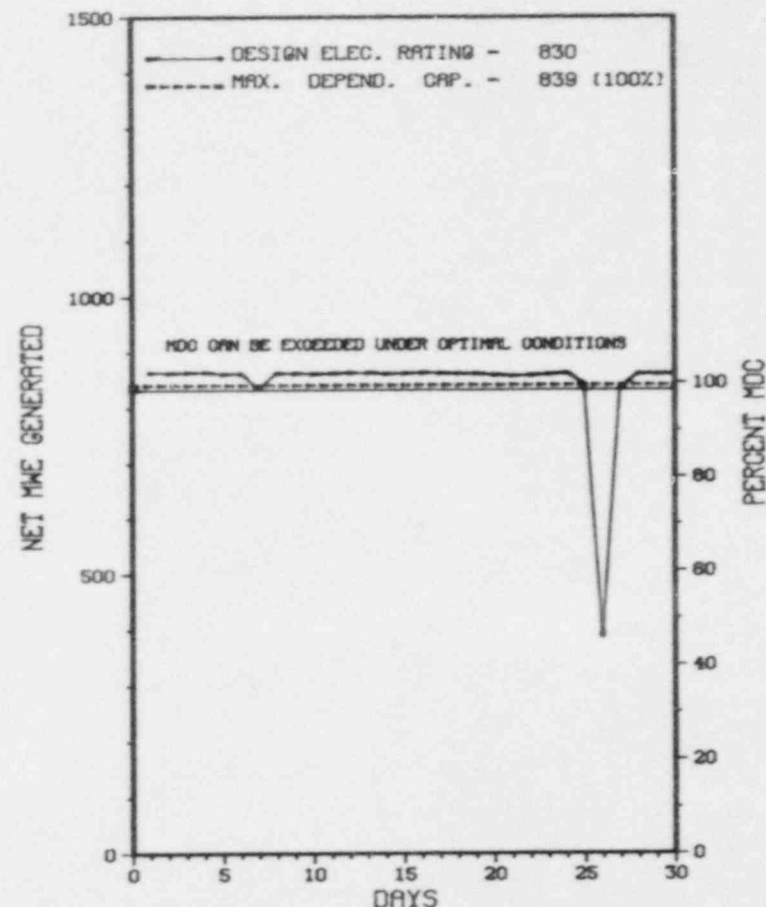
11. Reasons for Restrictions, If Any: NONE

| | MONTH | YEAR | CUMULATIVE |
|--|------------------|------------------|-------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>41,472.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>35,660.9</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,903.0</u> | <u>34,940.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,903,973</u> | <u>7,791,237</u> | <u>90,787,879</u> |
| 18. Gross Elec Ener (MWH) | <u>637,660</u> | <u>2,622,680</u> | <u>30,321,340</u> |
| 19. Net Elec Ener (MWH) | <u>604,897</u> | <u>2,490,584</u> | <u>28,658,372</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>84.3</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>100.0</u> | <u>84.3</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.3</u> | <u>102.3</u> | <u>82.4</u> |
| 23. Unit Cap Factor (DER Net) | <u>101.4</u> | <u>103.4</u> | <u>83.3</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>6.7</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>2,511.7</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> | | |

 * ST LUCIE 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * ST LUCIE 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 01 | 04/26/88 | F | 0.0 | A | 5 | | HC | HTEXCH | UNIT NO. 2 WAS AT 100% POWER WHEN HIGH CONDUCTIVITY WAS OBSERVED IN THE STEAM GENERATORS. POWER WAS REDUCED TO 30%. A LEAKING CONDENSER TUBE WAS DISCOVERED AND PLUGGED AND THE UNIT RETURNED TO FULL POWER OPERATION. |

 * SUMMARY *

ST. LUCIE 2 INCURRED 1 POWER REDUCTION IN APRIL 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) |

* ST LUCIE 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....FLORIDA

COUNTY.....ST LUCIE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...12 MI SE OF
FT. PIERCE, FLA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...JUNE 2, 1983

DATE ELEC ENER 1ST GENER...JUNE 13, 1983

DATE COMMERCIAL OPERATE...AUGUST 8, 1983

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...ATLANTIC OCEAN

ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....FLORIDA POWER & LIGHT

CORPORATE ADDRESS.....9250 WEST FLAGLER ST., P.O. BOX 529100
MIAMI, FLORIDA 33152

CONTRACTOR
ARCHITECT/ENGINEER.....EBASCO

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....EBASCO

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....R. CRLENJAK

LICENSING PROJ MANAGER.....E. TOURIGNY
DOCKET NUMBER.....50-389

LICENSE & DATE ISSUANCE...NPF-16, JUNE 10, 1983

PUBLIC DOCUMENT ROOM.....INDIAN RIVER COMMUNITY COLLEGE LIBRARY
3209 VIRGINIA AVENUE
FT. PIERCE, FLORIDA 33450

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

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 8-12 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AREAS; PHYSICAL BARRIERS - VITAL AREAS; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PACKAGES; DETECTION AIDS - VITAL AREAS; AND ALARM STATIONS. TWO VIOLATIONS OF REGULATORY REQUIREMENTS AND ONE INSPECTOR FOLLOWUP ITEM WERE IDENTIFIED WITHIN THE AREAS INSPECTED.

INSPECTION MARCH 14-18 (88-04): THIS SPECIAL, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LIQUID AND GASEOUS RADWASTE SYSTEMS, OFFSITE DOSE CALCULATION METHODOLOGY, AND EFFLUENT MONITORING AND SAMPLING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

Report Period APR 1988

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

* ST LUCIE 2 *

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: MARCH 14-18, 1988 +

INSPECTION REPORT NO: 50-389/88-04 +

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: 50-395 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>37,967.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,868.1</u> | <u>29,537.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,859.9</u> | <u>28,988.0</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,993,177</u> | <u>7,900,658</u> | <u>76,684,338</u> |
| 18. Gross Elec Ener (MWH) | <u>666,540</u> | <u>2,641,660</u> | <u>25,471,073</u> |
| 19. Net Elec Ener (MWH) | <u>640,345</u> | <u>2,534,558</u> | <u>24,274,141</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>98.5</u> | <u>76.4</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>98.5</u> | <u>76.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.6</u> | <u>98.7</u> | <u>72.2</u> |
| 23. Unit Cap Factor (DER Net) | <u>99.0</u> | <u>97.0</u> | <u>71.0</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>1.5</u> | <u>6.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>43.1</u> | <u>1,866.2</u> |

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

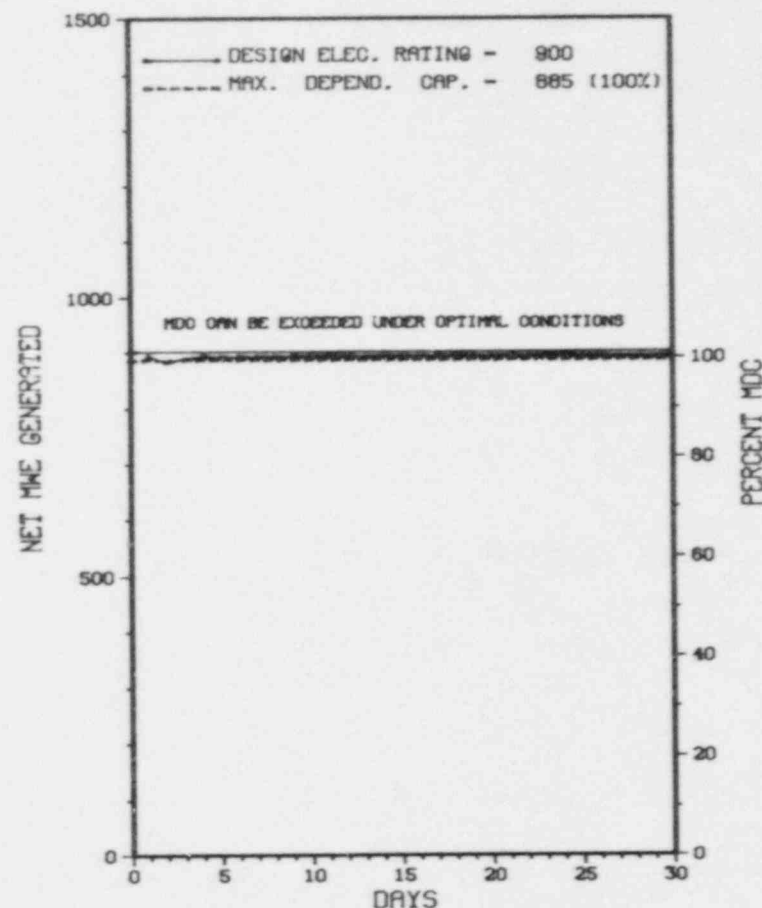
REFUELING, SEPTEMBER 16, 1988, 85 DAY DURATION.

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

* SUMMER 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUMMER 1



APRIL 1988

Report Period APR 1988

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 AT APPROXIMATELY 100 PERCENT POWER FOR
 THE ENTIRE MONTH OF APRIL.

| 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....SOUTH CAROLINA
COUNTY.....FAIRFIELD
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...26 MI NW OF
COLUMBIA, SC
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...OCTOBER 22, 1982
DATE ELEC ENER 1ST GENER...NOVEMBER 16, 1982
DATE COMMERCIAL OPERATE...JANUARY 1, 1984
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...MONTICELLO RESERVOIR
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....SOUTH CAROLINA ELECTRIC & GAS CO.
CORPORATE ADDRESS.....P.O. BOX 764
COLUMBIA, SOUTH CAROLINA 29202
CONTRACTOR
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....DANIEL INTERNATIONAL
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....R. PREVATTE
LICENSING PROJ MANAGER.....J. HAYES
DOCKET NUMBER.....50-395
LICENSE & DATE ISSUANCE....NPF-12, NOVEMBER 12, 1982
PUBLIC DOCUMENT ROOM.....FAIRFIELD COUNTY LIBRARY
GARDEN & WASHINGTON STREETS
WINNSBORO, SOUTH CAROLINA 29180

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

INSPECTION SUMMARY

* INSPECTION MARCH 1-31 (88-08): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED BY THE RESIDENT INSPECTORS ONSITE, IN THE AREAS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, MONTHLY SURVEILLANCE OBSERVATIONS, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY FEATURES SYSTEM WALKDOWN, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, CNSITE FOLLOWUP OF EVENTS AND SUBSEQUENT WRITTEN REPORTS, AND OTHER AREAS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 14-18 (88-09): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INCLUDED A REVIEW AND INSPECTION OF THE FOLLOWING AREAS: SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; SECURITY SYSTEM POWER SUPPLY; LIGHTING; ASSESSMENT AIDS; DETECTION AIDS - VITAL AREAS; ALARM STATIONS; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW, AND PHYSICAL PROTECTION SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS WITHIN THE TEN AREAS INSPECTED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                SUMMER 1                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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SYSTEMS AND COMPONENT PROBLEMS:

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

PLANT STATUS:

NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: MARCH 14-18, 1988 +

INSPECTION REPORT NO: 50-395/88-09 +

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---------------------------------------|
| 88-004 | 05/26/81 | 04/22/88 | TWO 2 INCH CORE DRILLS FOUND UNSEALED |

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SURRY 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|------------------|---|
| 88-04 | 04/09/88 | S | 526.2 | C | 1 | | | UNIT WAS SHUTDOWN FOR REFUELING OUTAGE. |

 * SUMMARY *

 SURRY 1 SHUTDOWN FOR SCHEDULED REFUELING OUTAGE IN APRIL.

| 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) |

* SURRY 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....VIRGINIA
COUNTY.....SURRY
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...17 MI NW OF
NEWPORT NEWS, VA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JULY 1, 1972
DATE ELEC ENER 1ST GENER...JULY 4, 1972
DATE COMMERCIAL OPERATE...DECEMBER 22, 1972
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...JAMES RIVER
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....VIRGINIA POWER
CORPORATE ADDRESS.....P.O. BOX 26666
RICHMOND, VIRGINIA 23261
CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....STONE & WEBSTER
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.D. BURKE
LICENSING PROJ MANAG'R.....C. PATEL
DOCKET NUMBER.....50-280
LICENSE & DATE ISSUANCE...DPR-32, MAY 25, 1972
PUBLIC DOCUMENT ROOM.....SWEM LIBRARY
COLLEGE OF WILLIAM AND MARY
WILLIAMSBURG, VIRGINIA 23185

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION MARCH 7-11 (88-08): THIS ROUTINE, UNANNOUNCED SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL OF PERSONNEL, PACKAGES, AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

INSPECTION FEBRUARY 28 - APRIL 2 (88-09): THIS ROUTINE, RESIDENT INSPECTION WAS CONDUCTED ON SITE IN THE AREAS OF PLANT OPERATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, AND LICENSEE EVENT REPORT REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THIS INSPECTION REPORT.

INSPECTION MARCH 5-11 (88-10): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED TO REVIEW POTENTIAL RADIATION EXPOSURES IN EXCESS OF NRC LIMITS ASSOCIATED WITH THE FREEING OF AN INCORE DETECTOR WHICH HAD BECOME LODGED IN A THIMBLE TUBE IN THE CORE OF THE UNIT 2 REACTOR. THREE VIOLATIONS WERE IDENTIFIED - FAILURE TO ADEQUATELY EVALUATE THE RADIATION HAZARDS PRESENT DURING WORK ON AN INCORE DETECTOR, INADEQUATE PROCEDURES FOR FREEING THE INCORE DETECTOR AND FOR BRIEFING THOSE INVOLVED IN THE WORK AND FAILURE TO CONDUCT OPERATIONS IN ACCORDANCE WITH APPROVED PROCEDURES.

ENFORCEMENT SUMMARY

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

X SURRY 1 X

ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50 APPENDIX B, CRITERION V AS IMPLEMENTED BY THE LICENSEE'S ACCEPTED QUALITY ASSURANCE PROGRAM (VIRGINIA POWER TOPICAL REPORT VEP-1-5A, SECTION 17.2.5), AS OF JANUARY 3, 1988, MEASURES FOR THE SELECTION AND REVIEW FOR SUITABILITY OF APPLICATION OF MATERIALS, PARTS, AND EQUIPMENT THAT ARE ESSENTIAL TO THE SAFETY-RELATED FUNCTIONS OF COMPONENTS WERE NOT ADEQUATELY PRESCRIBED BY PROCEDURES. THIS CONDITION CONTRIBUTED TO THE FAILURE MECHANISM, WHICH WAS IDENTIFIED IN DECEMBER, 1987, OF SAFETY-RELATED VALVE 2-CH-MOV-2289B.
(8800 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATION.

NONE.

LAST IE SITE INSPECTION DATE: MARCH 5-11, 1988 +

INSPECTION REPORT NO: 50-280/88-10 +

REPORTS FROM LICENSEE

| ===== | | | |
|--------|------------------|-------------------|---|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| 88-008 | 03/09/88 | 04/08/88 | LOW HEAD SAFETY INJECTION PUMP INOPERABLE DUE TO FAILED MOTOR LEADS |
| 88-009 | 03/11/88 | 04/05/88 | IODINE SPIKE DUE TO DEFECTIVE FUEL ELEMENT |
| ===== | | | |

1. Docket: 50-281 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>131,495.0</u> |
| 13. Hours Reactor Critical | <u>604.4</u> | <u>2,684.8</u> | <u>87,353.5</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>23.8</u> |
| 15. Hrs Generator On-Line | <u>576.5</u> | <u>2,656.9</u> | <u>85,955.2</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,391,180</u> | <u>6,428,995</u> | <u>201,599,344</u> |
| 18. Gross Elec Ener (MWH) | <u>464,035</u> | <u>2,143,685</u> | <u>65,511,509</u> |
| 19. Net Elec Ener (MWH) | <u>441,794</u> | <u>2,040,475</u> | <u>62,119,256</u> |
| 20. Unit Service Factor | <u>80.2</u> | <u>91.5</u> | <u>65.4</u> |
| 21. Unit Avail Factor | <u>80.2</u> | <u>91.5</u> | <u>65.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>78.7</u> | <u>90.0</u> | <u>60.5</u> |
| 23. Unit Cap Factor (DER Net) | <u>78.0</u> | <u>89.2</u> | <u>60.0</u> |
| 24. Unit Forced Outage Rate | <u>19.8</u> | <u>8.5</u> | <u>13.8</u> |
| 25. Forced Outage Hours | <u>142.5</u> | <u>246.1</u> | <u>11,105.2</u> |

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

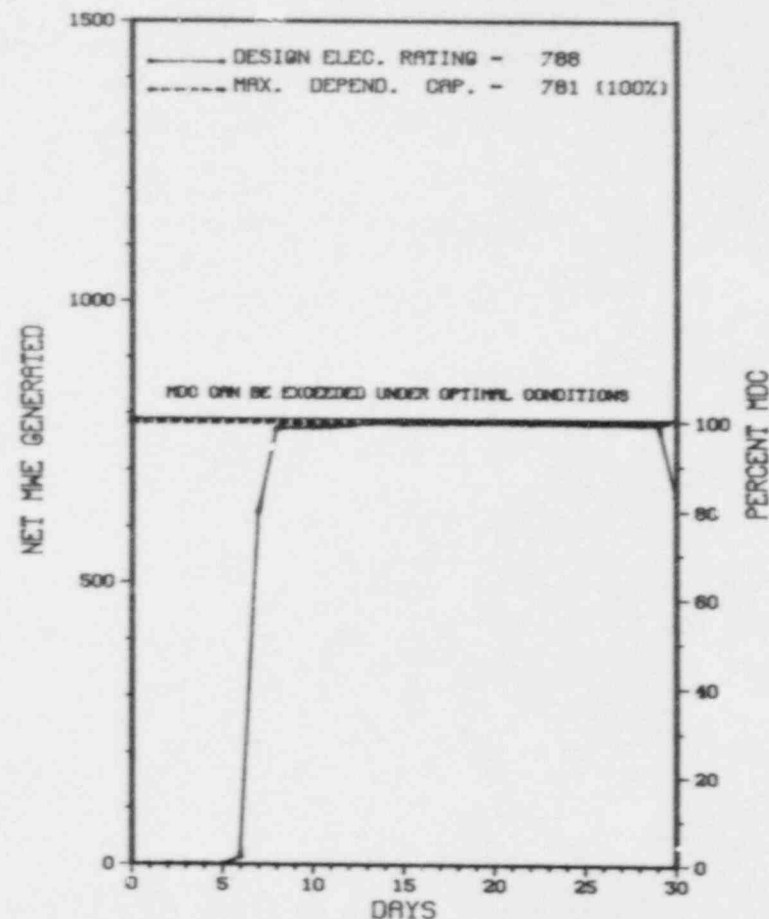
REFUELING - 8/19/88, 48 DAY DURATION.

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

 * SURRY 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SURRY 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SURRY 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|------------------|---|
| 88-06 | 03/27/88 | F | 142.5 | A | 4 | 88-004 | | UNIT WAS MANUALLY TRIPPED DUE TO VITAL BUS 2-III
INVERTER FAILURE, UNIT WAS KEPT DOWN TO INSPECT AFW
SYSTEM FOR BLOCKAGE, NONE FOUND. |

 * SUMMARY *

SURRY 2 ENTERED APRIL IN A FORCED OUTAGE. SUBSEQUENTLY, RETURNED
 TO POWER AND OPERATED ROUTINELY THE REMAINDER OF THE MONTH.

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

* SURRY 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....VIRGINIA
COUNTY.....SURRY
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...17 MI NW OF
NEWPORT NEWS, VA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...MARCH 7, 1973
DATE ELEC ENER 1ST GENER...MARCH 10, 1973
DATE COMMERCIAL OPERATE...MAY 1, 1973
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER....JAMES RIVER
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....VIRGINIA POWER
CORPORATE ADDRESS.....P.O. BOX 26666
RICHMOND, VIRGINIA 23261
CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....STONE & WEBSTER
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....D. BURKE
LICENSING PROJ MANAGER.....C. PATEL
DOCKET NUMBER.....50-281
LICENSE & DATE ISSUANCE...DPR-37, JANUARY 29, 1973
PUBLIC DOCUMENT ROOM.....SWEM LIBRARY
COLLEGE OF WILLIAM AND MARY
WILLIAMSBURG, VIRGINIA 23185

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION MARCH 7-11 (88-08): THIS ROUTINE, UNANNOUNCED SECURITY INSPECTION INVOLVED A REVIEW OF THE FOLLOWING AREAS: RECORDS AND REPORTS; TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL OF PERSONNEL, PACKAGES, AND VEHICLES; DETECTION AIDS - PROTECTED AND VITAL AREAS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

INSPECTION FEBRUARY 28 - APRIL 2 (88-09): THIS ROUTINE, RESIDENT INSPECTION WAS CONDUCTED ON SITE IN THE AREAS OF PLANT OPERATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, AND LICENSEE EVENT REPORT REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THIS INSPECTION REPORT.

INSPECTION MARCH 5-11 (88-10): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED TO REVIEW POTENTIAL RADIATION EXPOSURES IN EXCESS OF NRC LIMITS ASSOCIATED WITH THE FREEING OF AN INCORE DETECTOR WHICH HAD BECOME LODGED IN A THIMBLE TUBE IN THE CORE OF THE UNIT 2 REACTOR. THREE VIOLATIONS WERE IDENTIFIED - FAILURE TO ADEQUATELY EVALUATE THE RADIATION HAZARDS PRESENT DURING WORK ON AN INCORE DETECTOR, INADEQUATE PROCEDURES FOR FREEING THE INCORE DETECTOR AND FOR BRIEFING THOSE INVOLVED IN THE WORK AND FAILURE TO CONDUCT OPERATIONS IN ACCORDANCE WITH APPROVED PROCEDURES.

ENFORCEMENT SUMMARY

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

X SURRY 2 X

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.4, DETAILED WRITTEN PROCEDURES WERE NOT FOLLOWED BY EITHER COMPLYING WITH THE STEPS OR IMPLEMENTING A CHANGE PRIOR TO PROCEEDING. THIS RESULTED IN THE FAILURE TO PROPERLY ESTABLISH THE INITIAL CONDITIONS LISTED BELOW: (1) ON JANUARY 9, 1988, TEST PROCEDURE 1-PT-29.1, "TURBINE INLET VALVE TEST", WAS PERFORMED WITHOUT MEETING INITIAL CONDITION 3.5 OF THE TEST, WHICH REQUIRES THE ROD CONTROL SYSTEM TO BE IN THE AUTOMATIC CONTROL MODE. THE TEST WAS PERFORMED WITH THE ROD CONTROL SYSTEM IN THE MANUAL MODE. (2) ON JANUARY 9 AND 23, 1988, UNIT 1 AND UNIT 2 RESPECTIVELY, WERE RAMPED DOWN FROM 100% TO LESS THAN 75% POWER IN ACCORDANCE WITH OPERATIONS PROCEDURE OP-2.1.2, "DECREASING POWER FROM EXISTING POWER LEVEL TO 2%", WITHOUT MEETING INITIAL CONDITION 3.4 OF THE PROCEDURE, WHICH REQUIRED THE PORTABLE NARROW RANGE STEAM GENERATOR LEVEL INDICATORS TO BE IN PLACE AND OPERATING. (3) ON JANUARY 9, 1988, UNIT 1 WAS RAMPED DOWN FROM 100% TO LESS THAN 75% POWER IN ACCORDANCE WITH OPERATIONS PROCEDURE OP-2.1.2, "DECREASING POWER FROM EXISTING POWER LEVEL TO 2%", WITHOUT PERFORMING STEPS 3.7.1 THROUGH 3.7.4 OF THE PROCEDURE, WHICH REQUIRED THAT JUMPERS BE INSTALLED TO REMOVE THE SEAL-IN FUNCTION FROM CONTROLLERS OF MOISTURE SEPARATOR REHEATER STEAM SUPPLY ISOLATION VALVES. CONTRARY TO TS 6.4J, ON FEBRUARY 23, 1988, FIRE PROTECTION EQUIPMENT REQUIRED TO BE MAINTAINED IN SITE FIRE HOSE HOUSES WAS REMOVED AND USED FOR NON-FIRE PROTECTION PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE LOSS PREVENTION COORDINATOR. REVIEW OF TWELVE SURVEILLANCES OF HOSE HOUSES PERFORMED BY THE LICENSE IN 1987 AND 1988 IDENTIFIED TEN ADDITIONAL CASES WHERE EQUIPMENT HAD BEEN REMOVED WITHOUT WRITTEN PERMISSION OF THE LOSS PREVENTION COORDINATOR.

(8800 4)

CONTRARY TO 10 CFR 50 APPENDIX B, CRITERION V AS IMPLEMENTED BY THE LICENSEE'S ACCEPTED QUALITY ASSURANCE PROGRAM (VIRGINIA POWER TOPICAL REPORT VEP-1-5A, SECTION 17.2.5), AS OF JANUARY 3, 1988, MEASURES FOR THE SELECTION AND REVIEW FOR SUITABILITY OF APPLICATION OF MATERIALS, PARTS, AND EQUIPMENT THAT ARE ESSENTIAL TO THE SAFETY-RELATED FUNCTIONS OF COMPONENTS WERE NOT ADEQUATELY PRESCRIBED BY PROCEDURES. THIS CONDITION CONTRIBUTED TO THE FAILURE MECHANISM, WHICH WAS IDENTIFIED IN DECEMBER, 1987, OF SAFETY-RELATED VALVE 2-CH-MOV-2289B.

(8800 5)

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: MARCH 5-11, 1988 +

INSPECTION REPORT NO: 50-281/88-10 +

Report Period APR 1988

REPORTS FROM LICENSEE

* SURRY 2 *

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=====
NUMBER    DATE OF    DATE OF    SUBJECT
          EVENT     REPORT
-----
88-004    03/27/88    04/26/88    MANUAL REACTOR TRIP DUE TO LOSS OF VITAL BUS CAUSED BY FAILED INVERTER
88-006    03/10/88    04/08/88    FAILURE TO COMPLY WITH TECHNICAL SPECIFICATION DUE TO PERSONNEL SAFETY CONSIDERATIONS
=====
```

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1. Dock #: 50-387 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: J. A. HIRT (717) 542-3917

4. Licensed Thermal Power (MWt): 3293

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

6. Design Electrical Rating (Net MWe): 1065

7. Maximum Dependable Capacity (Gross MWe): 1068

8. Maximum Dependable Capacity (Net MWe): 1032

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

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

11. Reasons for Restrictions, If Any: _____

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|-----------|-----------|------------|
| 12. Report Period Hrs | 719.0 | 2,903.0 | 42,536.0 |
| 13. Hours Reactor Critical | 719.0 | 2,628.0 | 31,282.0 |
| 14. Rx Reserve Shtdwn Hrs | .0 | .0 | 773.2 |
| 15. Hrs Generator On-Line | 719.0 | 2,584.4 | 30,533.2 |
| 16. Unit Reserve Shtdwn Hrs | .0 | .0 | .0 |
| 17. Gross Therm Ener (MWH) | 2,356,635 | 8,254,661 | 94,301,086 |
| 18. Gross Elec Ener (MWH) | 776,720 | 2,726,112 | 30,736,711 |
| 19. Net Elec Ener (MWH) | 751,003 | 2,630,162 | 29,477,558 |
| 20. Unit Service Factor | 100.0 | 89.0 | 71.1 |
| 21. Unit Avail Factor | 100.0 | 89.0 | 71.1 |
| 22. Unit Cap Factor (MDC Net) | 101.2 | 87.8 | 66.5 |
| 23. Unit Cap Factor (DER Net) | 98.1 | 85.1 | 64.5 |
| 24. Unit Forced Outage Rate | .0 | 5.5 | 10.5 |
| 25. Forced Outage Hours | .0 | 149.0 | 3,565.6 |

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

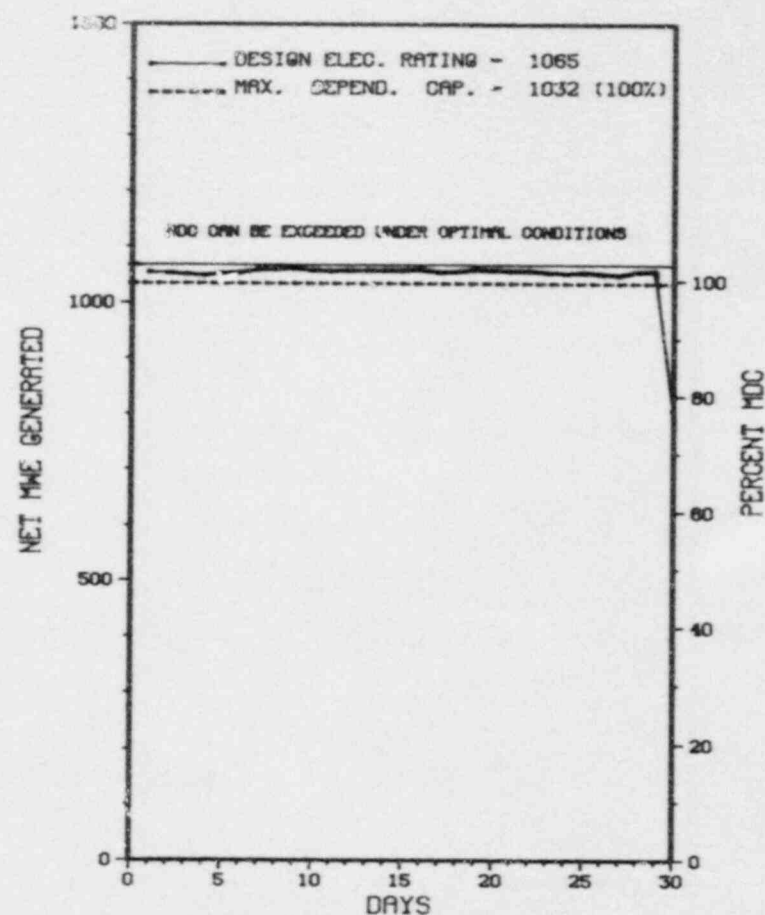
NONE

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

 * SUSQUEHANNA 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SUSQUEHANNA 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 4 | 04/30/88 | S | 0.0 | B | 5 | | JD | ZZZZZZ | ON APRIL 30, 1988, AT APPROXIMATELY 0600 HOURS, OPERATIONS PERSONNEL BEGAN DECREASING REACTOR POWER TO PERFORM A CONTROL ROD SEQUENCE EXCHANGE AND TO SCRAM TIME 19 CONTROL RODS. FOLLOWING COMPLETION OF THESE ACTIVITIES, OPERATIONS PERSONNEL INCREASED REACTOR POWER. FULL POWER OPERATION WAS RESTORED ON MAY 1, 1988, AT APPROXIMATELY 1900 HOURS. |

 * SUMMARY *

 SUSQUEHANNA 1 INCURRED 1 POWER REDUCTION IN APRIL 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) |

*****XXXXXXXXXXXXXXXXXXXXX
* SUSQUEHANNA 1 *
*****XXXXXXXXXXXXXXXXXXXXX

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

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA
COUNTY.....LUZERNE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...7 MI NE OF
BERWICK, PA
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...SEPTEMBER 10, 1982
DATE ELEC ENER 1ST GENER...NOVEMBER 16, 1982
DATE COMMERCIAL OPERATE...JUNE 8, 1983
CONDENSER COOLING METHOD...CC,HNDCT
CONDENSER COOLING WATER...SUSQUEHANNA RIVER
ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PENNSYLVANIA POWER & LIGHT
CORPORATE ADDRESS.....2 NORTH NINTH STREET
ALLENTOWN, PENNSYLVANIA 18101
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....F. YOUNG
LICENSING 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 APR 1988

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

* SUSQUEHANNA 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: 50-388 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>28,175.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>1,560.0</u> | <u>23,111.8</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>693.9</u> |
| 15. Hrs Generator On-Line | <u>.0</u> | <u>1,536.5</u> | <u>22,697.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>0</u> | <u>4,798,980</u> | <u>71,424,698</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>1,572,662</u> | <u>23,379,424</u> |
| 19. Net Elec Ener (MWH) | <u>-6,209</u> | <u>1,511,685</u> | <u>22,512,649</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>52.9</u> | <u>80.6</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>52.9</u> | <u>80.6</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>50.5</u> | <u>77.4</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>48.9</u> | <u>75.0</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>8.6</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>2,149.0</u> |

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

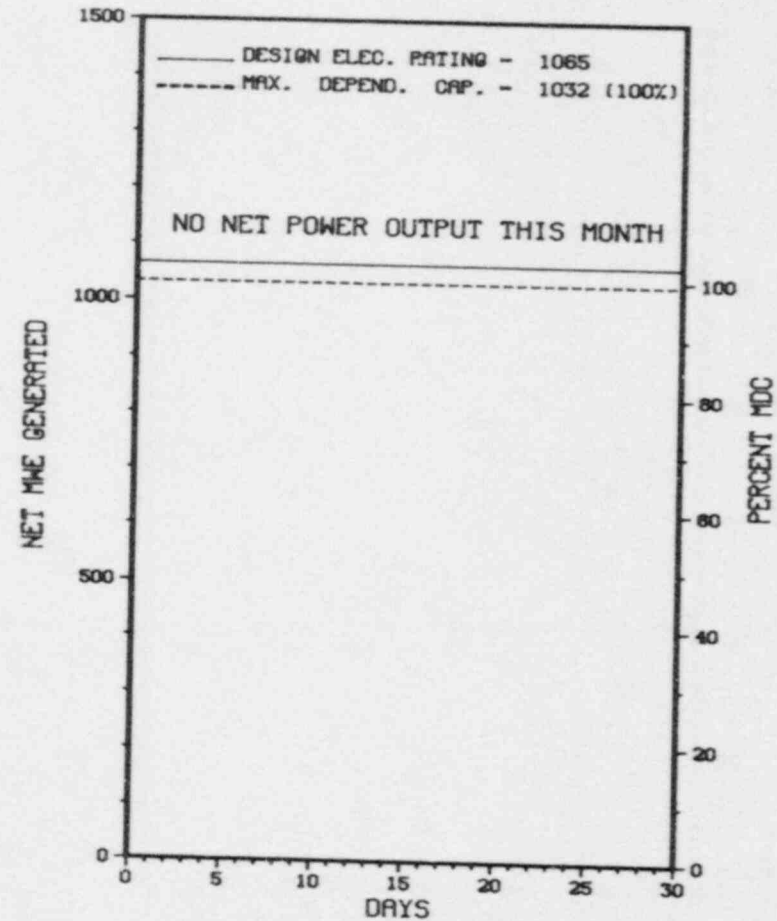
NONE

27. If Currently Shutdown Estimated Startup Date: 05/21/88

 * SUSQUEHANNA 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * SUSQUEHANNA 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 1 | 03/05/88 | S | 719.0 | C | 4 | | ZZZ | ZZZZZZ | ON MARCH 5, 1988, AT 0200 HOURS, OPERATIONS PERSONNEL PLACED THE REACTOR MODE SWITCH IN THE "SHUTDOWN" POSITION TO COMMENCE THE UNIT'S SECOND REFUELING OUTAGE. |

 * SUMMARY *

 SUSQUEHANNA 2 REMAINED SHUTDOWN IN APRIL 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) |

* SUSQUEHANNA/ 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA
COUNTY.....LUZERNE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...7 MI NE OF
BERWICK, PA
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...MAY 8, 1984
DATE ELEC ENER 1ST GENER...JULY 3, 1984
DATE COMMERCIAL OPERATE....FEBRUARY 12, 1985
CONDENSER COOLING METHOD...CC,HNDCT
CONDENSER COOLING WATER....SUSQUEHANNA RIVER
ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PENNSYLVANIA POWER & LIGHT
CORPORATE ADDRESS.....2 NORTH NINTH STREET
ALLENTOWN, PENNSYLVANIA 18101
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....F. YOUNG
LICENSING PROJ MANAGER....M. THADANI
DOCKET NUMBER.....50-388
LICENSE & DATE ISSUANCE...NPF-22, JUNE 27, 1984
PUBLIC DOCUMENT ROOM.....OSTERHOUT FREE LIBRARY
71 SOUTH FRANKLIN STREET
WILKES-BARRE, PENNSYLVANIA 18701

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)

* SUSQUEHANNA *

MANAGERIAL ITEMS:

PLANT STATUS:

INPUT PROVIDED.

E SITE INSPECTION DATE: NO INPUT PROVIDED.

INSTRUCTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-289 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: C. W. SMYTH (717) 948-8551

4. Licensed Thermal Power (MWt): 2535

5. Nameplate Rating (Gross MWe): 968 X 0.9 = 871

6. Design Electrical Rating (Net MWe): 819

7. Maximum Dependable Capacity (Gross MWe): 824

8. Maximum Dependable Capacity (Net MWe): 776

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>119,760.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,841.4</u> | <u>49,361.8</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>61.6</u> | <u>1,947.8</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,839.4</u> | <u>48,439.2</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,819,116</u> | <u>7,160,868</u> | <u>117,648,568</u> |
| 18. Gross Elec Ener (MWH) | <u>625,079</u> | <u>2,467,22</u> | <u>39,335,441</u> |
| 19. Net Elec Ener (MWH) | <u>590,968</u> | <u>2,330,095</u> | <u>36,834,378</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>97.8</u> | <u>40.4</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>97.8</u> | <u>40.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>105.9</u> | <u>103.4</u> | <u>39.4*</u> |
| 23. Unit Cap Factor (DER Net) | <u>100.4</u> | <u>98.0</u> | <u>37.6</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>2.2</u> | <u>55.1</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>63.6</u> | <u>59,376.5</u> |

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

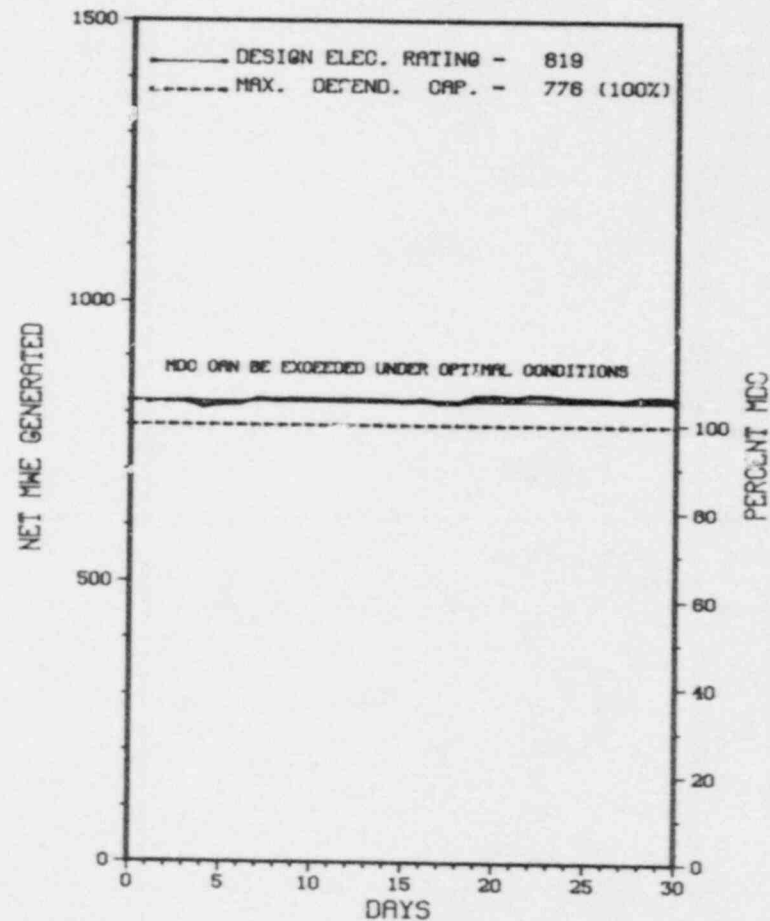
REFUELING - JUNE 17, 1988 - 64 DAY DURATION.

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

* THREE MILE ISLAND 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

THREE MILE ISLAND 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* THREE MILE ISLAND 1 *

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

NONE

* SUMMARY *

THREE MILE ISLAND OPERATED ROUTINELY IN APRIL 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 APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA
COUNTY.....DAUPHIN
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...10 MI SE OF
HARRISBURG, PA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JUNE 5, 1974
DATE ELEC ENER 1ST GENER...JUNE 19, 1974
DATE COMMERCIAL OPERATE...SEPTEMBER 2, 1974
CONDENSER COOLING METHOD... COOLING TOWERS
CONDENSER COOLING WATER...SUSQUEHANNA RIVER
ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GPU NUCLEAR CORP.
CORPORATE ADDRESS.....P.O. BOX 480
MIDDLETOWN, PENNSYLVANIA 17057
CONTRACTOR
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES
NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX
CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I
IE RESIDENT INSPECTOR.....R. CONTE
LICENSING PROJ MANAGER.....R. HERNAN
DOCKET NUMBER.....50-289
LICENSE & DATE ISSUANCE....DPR-50, APRIL 19, 1974
PUBLIC DOCUMENT ROOM.....GOVERNMENT PUBLICATIONS SECTION
STATE LIBRARY OF PENNSYLVANIA
FORUM BUILDING
COMMONWEALTH AND WALNUT STREET
HARRISBURG, PENNSYLVANIA 17105

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period APR 1988

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

=====

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

NO INPUT PROVIDED.

=====

1. Docket: 50-344 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: F. J. UHMER (503) 556-3713 X495

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1280 X 0.95 = 1216

6. Design Electrical Rating (Net MWe): 1130

7. Maximum Dependable Capacity (Gross MWe): 1153

8. Maximum Dependable Capacity (Net MWe): 1095

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

MDC RATINGS DUE TO IMPROVED PLANT PERFORMANCE FROM UPGRADE

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

11. Reasons for Restrictions, If Any: _____

NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|----------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,913.0</u> | <u>102,239.0</u> |
| 13. Hours Reactor Critical | <u>287.3</u> | <u>2,344.6</u> | <u>64,689.6</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>3,875.4</u> |
| 15. Hrs Generator On-Line | <u>287.3</u> | <u>2,342.2</u> | <u>63,013.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>3,237.0</u> |
| 17. Gross Therm Ener (MWH) | <u>969,061</u> | <u>7,955,428</u> | <u>201,300,792</u> |
| 18. Gross Elec Ener (MWH) | <u>324,855</u> | <u>2,692,463</u> | <u>65,580,534</u> |
| 19. Net Elec Ener (MWH) | <u>307,012</u> | <u>2,568,357</u> | <u>62,067,634</u> |
| 20. Unit Service Factor | <u>40.0</u> | <u>80.7</u> | <u>61.6</u> |
| 21. Unit Avail Factor | <u>40.0</u> | <u>80.7</u> | <u>64.8</u> |
| 22. Unit Cap Factor (MDC Net) | <u>39.0</u> | <u>80.8</u> | <u>55.4</u> |
| 23. Unit Cap Factor (DER Net) | <u>37.8</u> | <u>78.3</u> | <u>53.7</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>5.2</u> | <u>13.6</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>129.1</u> | <u>9,932.6</u> |

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

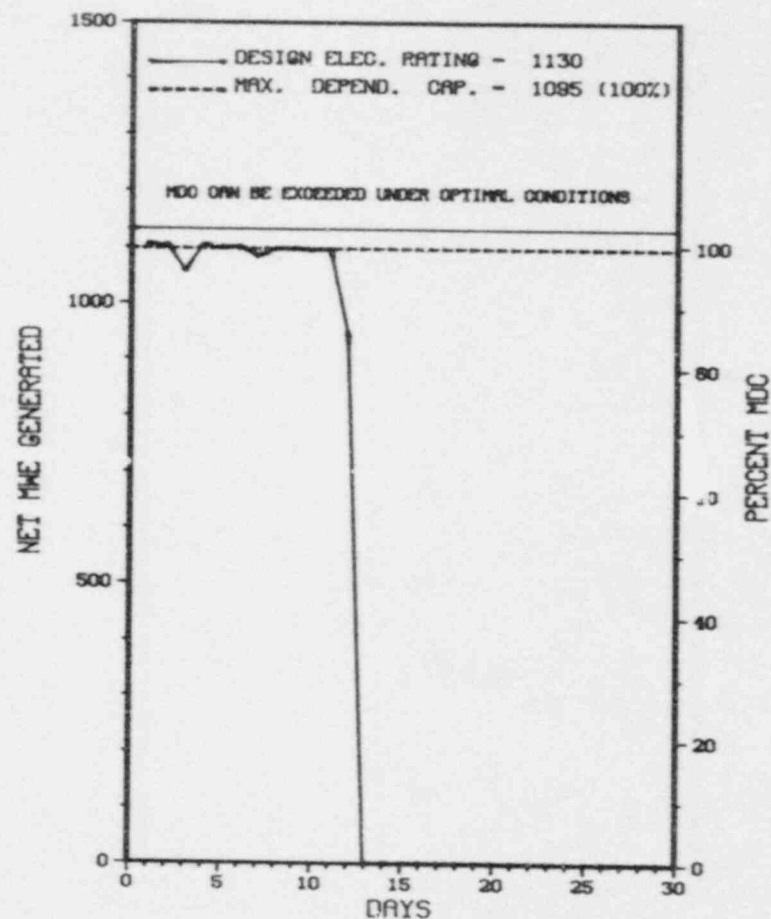
NONE

27. If Currently Shutdown Estimated Startup Date: 05/31/88

* TROJAN *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TROJAN



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* TROJAN *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-02 | 04/13/88 | S | 431.7 | C | 1 | | | | ANNUAL REFUEL/MAINTENANCE OUTAGE. |

* SUMMARY *

TROJAN COMMENCED SCHEDULED REFUELING OUTAGE IN APRIL.

| 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)

* TROJAN *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....OREGON

COUNTY.....COLUMBIA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...32 MI N OF
PORTLAND, ORE

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...DECEMBER 15, 1975

DATE ELEC ENER 1ST 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 FEBRUARY 14 - MARCH 26, 1988 (REPORT NO. 50-344/88-08) AREAS INSPECTED: ROUTINE INSPECTION OF OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, AND OPEN ITEM FOLLOWUP. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 28 - APRIL 1, 1988 (REPORT NO. 50-344/88-09) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S EMERGENCY PREPAREDNESS PROGRAM. THIS INSPECTION INCLUDED FOLLOWUP ON PREVIOUS INSPECTION FINDINGS, AND EXAMINATIONS OF CHANGES TO THE EMERGENCY PLAN AND PROCEDURES, ORGANIZATION AND MANAGEMENT CONTROL OF THE EMERGENCY PLANNING PROGRAM, TRAINING OF EMERGENCY RESPONSE PERSONNEL, AND INDEPENDENT REVIEWS/AUDITS OF THE EMERGENCY PREPAREDNESS PROGRAM. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 14 - 18, 1988 (REPORT NO. 50-344/88-10) AREAS INSPECTED: THIS ROUTINE, UNANNOUNCED INSPECTION BY THE PROJECT INSPECTOR INVOLVED THE ANNUAL REVIEW OF THE LICENSEE'S PROGRAM TO HANDLE INFORMATION NOTICES, REVIEW OF PROCEDURES, AND ONSITE FOLLOWUP OF WRITTEN REPORTS OF NONROUTINE EVENTS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

INSPECTION STATUS - (CONTINUED)

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                TROJAN                X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 29 - 31, 1988 (REPORT NO. 50-344/88-11) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF PLANT WATER CHEMISTRY CONTROL AND CHEMICAL ANALYSIS, RADIOCHEMICAL ANALYSIS, POST-ACCIDENT SAMPLING, AND QUALITY ASSURANCE OF PLANT CHEMISTRY ACTIVITIES. DURING THIS INSPECTION, TWO INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NOCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

* MANAGEMENT MEETING ON MARCH 25, 1988 (REPORT NO. 50-344/88-12) A MANAGEMENT MEETING WAS HELD ON THE ABOVE DATE TO DISCUSS ISSUES OF CURRENT INTEREST RELATING TO THE TROJAN NUCLEAR GENERATING STATION.

* INSPECTION ON MARCH 27 - MAY 7, 1988 (REPORT NO. 50-344/88-13) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

* INSPECTION ON MARCH 27 - APRIL 30, 1988 (REPORT NO. 50-344/88-14) REPORT CANCELLED.

+ INSPECTION ON APRIL 25 - 29, 1988 (REPORT NO. 50-344/88-15) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

* INSPECTION ON APRIL 21 - 29, 1988 (REPORT NO. 50-344/88-16) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON APRIL 18 - 22, 1988 (REPORT NO. 50-344/88-17) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON APRIL 25 - 29, 1988 (REPORT NO. 50-344/88-18) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

NONE

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER LEVEL 100%.

LAST IE SITE INSPECTION DATE: 03/27 - 05/07/88+

Report Period APR 1988

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

* TRDJAN *

INSPECTION REPORT NO: 50-344/88-13+

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
=====

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1. Docket: 50-250 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: N. W. GRANT (305) 694-4437

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>719.0</u> | <u>2,903.0</u> | <u>135,032.6</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>1,714.4</u> | <u>91,409.1</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>844.3</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>1,629.0</u> | <u>88,424.2</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>121.8</u> |
| 17. Gross Therm Ener (MWH) | <u>1,557,749</u> | <u>3,335,672</u> | <u>183,139,937</u> |
| 18. Gross Elec Ener (MWH) | <u>509,845</u> | <u>1,082,775</u> | <u>58,680,776</u> |
| 19. Net Elec Ener (MWH) | <u>486,141</u> | <u>1,012,364</u> | <u>55,491,150</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>56.4</u> | <u>65.5</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>56.1</u> | <u>65.6</u> |
| 22. Unit Cap Factor (MDC Net) | <u>101.5</u> | <u>52.4</u> | <u>63.1*</u> |
| 23. Unit Cap Factor (DER Net) | <u>97.6</u> | <u>50.3</u> | <u>59.3</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>43.6</u> | <u>11.1</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>1,258.1</u> | <u>10,505.4</u> |

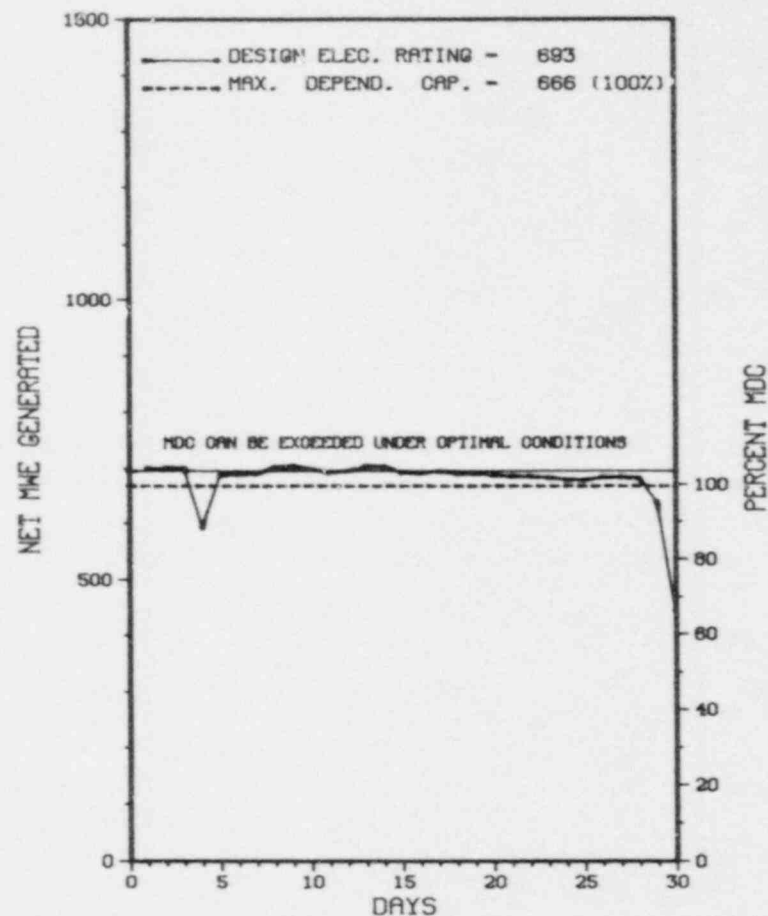
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

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

* TURKEY POINT 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TURKEY POINT 3



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * TURKEY POINT 3 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 05 | 04/29/88 | S | 0.0 | B | S | | HA | VALVOP | UNIT 3 WAS REDUCED TO APPROXIMATELY 40% POWER TO PERFORM TURBINE VALVE TESTING. WHILE RETURNING TO FULL POWER A HOLD WAS EXPERIENCED TO MAKE ADJUSTMENTS IN ROD POSITION INDICATION. |

 * SUMMARY *

 TURKEY POINT 3 INCURRED 1 SCHEDULED POWER REDUCTION IN APRIL 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 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....FLORIDA
COUNTY.....DADE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI S OF
MIAMI, FLA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...OCTOBER 20, 1972
DATE ELEC ENER 1ST GENER...NOVEMBER 2, 1972
DATE COMMERCIAL OPERATE...DECEMBER 14, 1972
CONDENSER COOLING METHOD...CLOSED CANAL
CONDENSER COOLING WATER...CLOSED CYCLE CANAL
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....FLORIDA POWER & LIGHT
CORPORATE ADDRESS.....9250 WEST FLAGLER STREET P.O. BOX 013100
MIAMI, FLORIDA 33174
CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....R. BREWER
LICENSING PROJ MANAGER.....G. EDISON
DOCKET NUMBER.....50-250
LICENSE & DATE ISSUANCE....DPR-31, JULY 19, 1972
PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL AND URBAN AFFAIRS LIBRARY
FLORIDA INTERNATIONAL UNIVERSITY
MIAMI, FLORIDA 33199

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 22-25 (88-01): THIS SPECIAL, ANNOUNCED INSPECTION WAS AN EMERGENCY RESPONSE FACILITIES (ERF) APPRAISAL. AREAS EXAMINED DURING THE APPRAISAL INCLUDED A REVIEW OF SELECTED PROCEDURES AND REPRESENTATIVE RECORDS, THE ERFs AND RELATED EQUIPMENT, AND INTERVIEWS WITH LICENSEE PERSONNEL. SELECTED ACTIVITIES WERE OBSERVED DURING THE 1988 ANNUAL EXERCISE TO DETERMINE THE ADEQUACY OF THE ERFs AND RELATED EQUIPMENT. TWO VIOLATIONS WERE IDENTIFIED, NAMELY: FAILURE TO PROVIDE ADEQUATE METHODS, SYSTEMS AND EQUIPMENT FOR ASSESSING AND MONITORING ACTUAL OR POTENTIAL OFFSITE CONSEQUENCES OF A RADIOLOGICAL EMERGENCY CONDITION, FAILURE TO PROVIDE WRITTEN PROCEDURES AND ADMINISTRATIVE POLICIES TO CONTROL THE COMPUTER BASED DOSE CALCULATION MODEL.

INSPECTION JANUARY 18 - FEBRUARY 25 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTION, IN THE AREAS OF ANNUAL AND MONTHLY SURVEILLANCE, MAINTENANCE OBSERVATIONS AND REVIEWS, ENGINEERED SAFETY FEATURES, OPERATIONAL SAFETY, FACILITY MODIFICATIONS AND PLANT EVENTS. ONE VIOLATION WITH THREE EXAMPLES FOR FAILURE TO MEET THE REQUIREMENTS OF TECHNICAL SPECIFICATION (TS) 6.8.1 WAS IDENTIFIED.

INSPECTION MARCH 21-25 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LIQUID AND GASEOUS WASTE PROCESSING, LIQUID AND GASEOUS EFFLUENTS, EFFLUENT MONITORING, POST ACCIDENT SAMPLING, CONFIRMATORY MEASUREMENTS AND ENVIRONMENTAL MONITORING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 25 - MARCH 25 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTION, IN THE AREAS OF ANNUAL AND MONTHLY SURVEILLANCE, MAINTENANCE OBSERVATIONS AND REVIEWS, ENGINEERED SAFETY FEATURES, OPERATIONAL SAFETY, FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS AND PLANT EVENTS. ONE VIOLATION WITH THREE EXAMPLES FOR

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* TURKEY POINT 3 *

INSPECTION SUMMARY

FAILURE TO MEET THE REQUIREMENTS OF TS 6.8.1 WAS IDENTIFIED.

ENFORCEMENT SUMMARY

TS 6.8.1 REQUIRES THAT WRITTEN PROCEDURES AND ADMINISTRATIVE POLICIES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED THAT MEET OR EXCEED THE REQUIREMENTS AND RECOMMENDATIONS OF APPENDIX A OF USNRC REGULATORY GUIDE 1.33 AND SECTION 5.1 AND 5.3 OF ANSI N18-7-1972. CONTRARY TO THE ABOVE: (1) ON JANUARY 6, 1988, PROCEDURES 3/4-OSP-075.3 FAILED TO ESTABLISH ADMINISTRATIVE REQUIREMENTS TO INDEPENDENTLY VERIFY AFW NITROGEN VALVE POSITIONS, WHICH RESULTED IN A FAILURE TO IMPLEMENT STEP 7.2.20 OF PROCEDURE 4-OSP-75.3 IN THAT A VALVE WAS NOT OPENED AS REQUIRED. CONSEQUENTLY, ONLY TWO OF THREE NITROGEN BOTTLES WERE RESTORED TO THEIR NORMAL ALIGNMENT FOLLOWING SURVEILLANCE TESTING. (2) ON JANUARY 12, 1988, THE CONTINUOUS FIRE WATCH POSTED AT FIRE DOOR 108A-1 TO COMPENSATE FOR AN IMPAIRED HALON SYSTEM WAS FOUND ASLEEP. CONSEQUENTLY, THE EFFECTIVENESS OF THE HALON SYSTEM MIGHT NOT HAVE BEEN RE-ESTABLISHED (THROUGH DOOR CLOSURE) WITHIN THE REQUIRED 60 SECOND TIME INTERVAL. (3) ON JANUARY 13, 1988, MAINTENANCE WAS PERFORMED ON THE UNIT 3 ROD CONTROL SYSTEM WITHOUT DOCUMENTED INSTRUCTIONS OR DRAWINGS APPROPRIATE TO THE CIRCUMSTANCES. FUSES WERE REMOVED FROM THE SYSTEM WITHOUT A COMPLETE UNDERSTANDING OF WHAT CIRCUITRY THE FUSES SUPPLIED. CONSEQUENTLY, PORTIONS OF THE ROD CONTROL CIRCUITRY FOR 3 RODS WERE DE-ENERGIZED WHILE ONLY ONE ROD WAS THOUGHT TO BE AFFECTED. DURING A UNIT 3 REACTOR SHUTDOWN, THIS UNEXPECTEDLY RESULTED IN MULTIPLE RODS DROPPING INTO THE CORE, REQUIRING AS MANUAL REACTOR TRIP. (4) ON JANUARY 10, 1988, OTSC 5676 WAS APPROVED TO ONOP 0208.11, AN ANNUNCIATOR RESPONSE PROCEDURE, AND AS OF JANUARY 13, 1988, IT HAD NOT BEEN ENTERED INTO THE ONOP. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION III, AS IMPLEMENTED BY THE APPROVED FLORIDA POWER AND LIGHT COMPANY TOPICAL QUALITY ASSURANCE REPORT (FPLTQAR) 1-76A, REVISION 10, TOPICAL QUALITY REQUIREMENT (TQR) 3.0, REVISION 5, IN JANUARY 1988, INSPECTIONS IDENTIFIED THAT DESIGN INPUTS CONTAINED INPLANT CHANGE MODIFICATIONS (PCMS) 85-175 AND 85-176, HAD NOT BEEN CORRECTLY TRANSLATED INTO OPERATING PROCEDURES AND THE SYSTEM DESCRIPTION.
(8705 4)

UNDERGROUND PA BARRIER. UNALARMED PA BARRIER. INADEQUATE ALARM TEST.
(8800 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: FEBRUARY 25 - MARCH 25, 1988 +

INSPECTION REPORT NO: 50-250/88-07 +

Report Period APR 1988

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

* TURKEY POINT 3 *

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

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|---|
| 88-003 | 03/04/88 | 04/07/88 | CONTAINMENT VENTILATION AND CONTROL ROOM VENTILATION ISOLAT WHILE CONTAIN PARTICULATE RAD
MONITOR SETPOINT WAS BEING CHECK |
| 88-004 | 03/18/88 | 04/15/88 | AUXILIARY FEEDWATER INITIATION ON LOW S/G LEVEL DUE TO INADEQUATE MONITORING OF STEAM GENERATOR
LEVEL; PERSONNEL ERROR |

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1. Docket: 50-251 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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

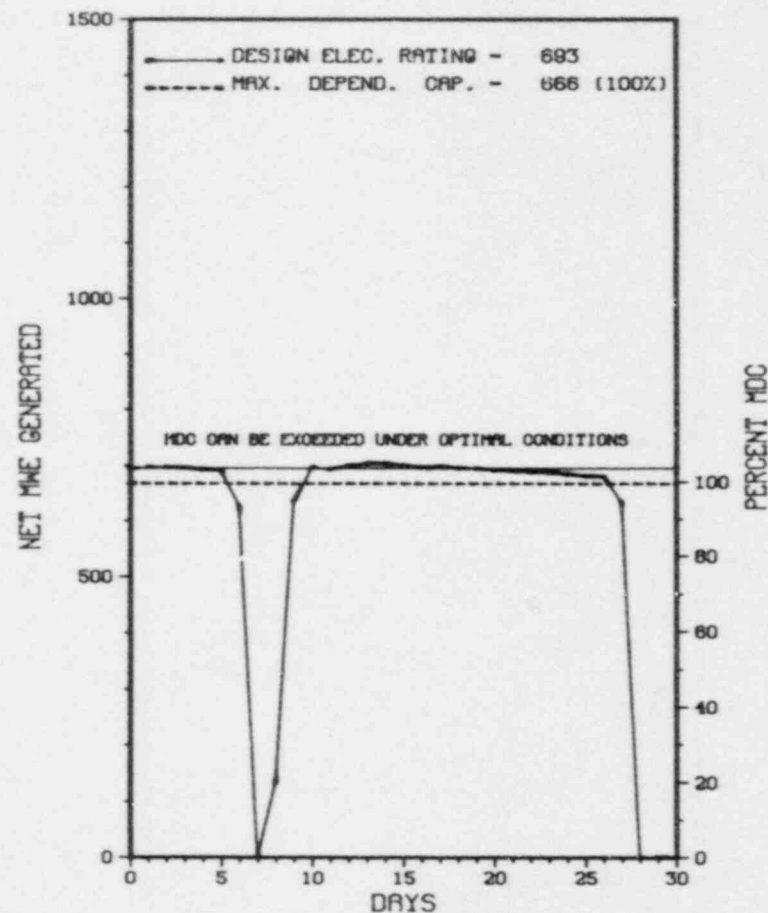
| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>128,760.0</u> |
| 13. Hours Reactor Critical | <u>647.5</u> | <u>2,427.8</u> | <u>87,614.5</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>166.6</u> |
| 15. Hrs Generator On-Line | <u>613.1</u> | <u>2,383.6</u> | <u>84,597.0</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>31.2</u> |
| 17. Gross Therm Ener (MWH) | <u>1,322,618</u> | <u>5,088,425</u> | <u>178,553,048</u> |
| 18. Gross Elec Ener (MWH) | <u>433,190</u> | <u>1,676,500</u> | <u>56,976,324</u> |
| 19. Net Elec Ener (MWH) | <u>411,689</u> | <u>1,593,687</u> | <u>53,915,518</u> |
| 20. Unit Service Factor | <u>85.3</u> | <u>82.1</u> | <u>65.7</u> |
| 21. Unit Avail Factor | <u>85.3</u> | <u>82.1</u> | <u>65.7</u> |
| 22. Unit Cap Factor (MDC Net) | <u>86.0</u> | <u>82.4</u> | <u>64.3*</u> |
| 23. Unit Cap Factor (DER Net) | <u>82.6</u> | <u>79.2</u> | <u>60.4</u> |
| 24. Unit Forced Outage Rate | <u>.4.7</u> | <u>17.9</u> | <u>11.0</u> |
| 25. Forced Outage Hours | <u>105.9</u> | <u>518.2</u> | <u>10,099.1</u> |

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

27. If Currently Shutdown Estimated Startup Date: 05/16/88

 * TURKEY POINT 4 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT
 TURKEY POINT 4



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* TURKEY POINT 4 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 07 | 04/06/88 | F | 33.8 | A | 1 | | HA | PIPEXX | UNIT 4 WAS SHUTDOWN TO INVESTIGATE AND REPAIR A LEAK IN THE TURBINE CONTROL OIL SYSTEM. WHILE RETURNING TO FULL POWER FOLLOWING REPAIR OF THE OIL LEAK, HOLDS WERE EXPERIENCED FOR SECONDARY CHEMISTRY, ADJUSTMENT OF ROD POSITION INDICATION AND TO REPAIR THE BACKUP FEEDWATER PUMP WHICH WAS FOUND TO HAVE WATER IN THE OIL. |
| 08 | 04/27/88 | F | 72.1 | A | 1 | | PC | VALVEX | THE UNIT WAS SHUTDOWN TO INVESTIGATE AND REPAIR A LEAKING PRESSURIZER CONTROL SPRAY VALVE. THE UNIT WAS SHUTDOWN FOR THE REMAINDER OF THE PERIOD. |

* SUMMARY *

TURKEY POINT 4 INCURRED 2 FORCED OUTAGES IN APRIL 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 APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....FLORIDA
 COUNTY.....DADE
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...25 MI S OF
 MIAMI, FLA
 TYPE OF REACTOR.....PWR
 DATE INITIAL CRITICALITY...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 FEBRUARY 22-25 (88-01): THIS SPECIAL, ANNOUNCED INSPECTION WAS AN EMERGENCY RESPONSE FACILITIES (ERF) APPRAISAL. AREAS EXAMINED DURING THE APPRAISAL INCLUDED A REVIEW OF SELECTED PROCEDURES AND REPRESENTATIVE RECORDS, THE ERFs AND RELATED EQUIPMENT, AND INTERVIEWS WITH LICENSEE PERSONNEL. SELECTED ACTIVITIES WERE OBSERVED DURING THE 1988 ANNUAL EXERCISE 1. DETERMINE THE ADEQUACY OF THE ERFs AND RELATED EQUIPMENT. TWO VIOLATIONS WERE IDENTIFIED, NAMELY: FAILURE TO PROVIDE ADEQUATE METHODS, SYSTEMS AND EQUIPMENT FOR ASSESSING AND MONITORING ACTUAL OR POTENTIAL OFFSITE CONSEQUENCES OF A RADIOLOGICAL EMERGENCY CONDITION, FAILURE TO PROVIDE WRITTEN PROCEDURES AND ADMINISTRATIVE POLICIES TO CONTROL THE COMPUTER BASED DOSE CALCULATION MODEL.

INSPECTION JANUARY 18 - FEBRUARY 25 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTION, IN THE AREAS OF ANNUAL AND MONTHLY SURVEILLANCE, MAINTENANCE OBSERVATIONS AND REVIEWS, ENGINEERED SAFETY FEATURES, OPERATIONAL SAFETY, FACILITY MODIFICATIONS AND PLANT EVENTS. ONE VIOLATION WITH THREE EXAMPLES FOR FAILURE TO MEET THE REQUIREMENTS OF TECHNICAL SPECIFICATION (TS) 6.8.1 WAS IDENTIFIED.

INSPECTION MARCH 21-25 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LIQUID AND GASEOUS WASTE PROCESSING, LIQUID AND GASEOUS EFFLUENTS, EFFLUENT MONITORING, POST ACCIDENT SAMPLING, CONFIRMATORY MEASUREMENTS AND ENVIRONMENTAL MONITORING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 25 - MARCH 25 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED DIRECT INSPECTION AT THE SITE, INCLUDING BACKSHIFT INSPECTION, IN THE AREAS OF ANNUAL AND MONTHLY SURVEILLANCE, MAINTENANCE OBSERVATIONS AND REVIEWS, ENGINEERED SAFETY FEATURES, OPERATIONAL SAFETY, FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS AND PLANT EVENTS. ONE VIOLATION WITH THREE EXAMPLES FOR

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* TURKEY POINT 4 *

INSPECTION SUMMARY

FAILURE TO MEET THE REQUIREMENTS OF TS 6.8.1 WAS IDENTIFIED.

ENFORCEMENT SUMMARY

TS 6.8.1 REQUIRES THAT WRITTEN PROCEDURES AND ADMINISTRATIVE POLICIES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED THAT MEET OR EXCEED THE REQUIREMENTS AND RECOMMENDATIONS OF APPENDIX A OF USNRC REGULATORY GUIDE 1.33 AND SECTION 5.1 AND 5.3 OF ANSI N18-7-1972. CONTRARY TO THE ABOVE: (1) ON JANUARY 6, 1988, PROCEDURES 3/4-OSP-075.3 FAILED TO ESTABLISH ADMINISTRATIVE REQUIREMENTS TO INDEPENDENTLY VERIFY AFW NITROGEN VALVE POSITIONS, WHICH RESULTED IN A FAILURE TO IMPLEMENT STEP 7.2.20 OF PROCEDURE 4-OSP-75.3 IN THAT A VALVE WAS NOT OPENED AS REQUIRED. CONSEQUENTLY, ONLY TWO OF THREE NITROGEN BOTTLES WERE RESTORED TO THEIR NORMAL ALIGNMENT FOLLOWING SURVEILLANCE TESTING. (2) ON JANUARY 12, 1988, THE CONTINUOUS FIRE WATCH POSTED AT FIRE DOOR 108A-1 TO COMPENSATE FOR AN IMPAIRED HALON SYSTEM WAS FOUND ASLEEP. CONSEQUENTLY, THE EFFECTIVENESS OF THE HALON SYSTEM MIGHT NOT HAVE BEEN RE-ESTABLISHED (THROUGH DOOR CLOSURE) WITHIN THE REQUIRED 60 SECOND TIME INTERVAL. (3) ON JANUARY 13, 1988, MAINTENANCE WAS PERFORMED ON THE UNIT 3 ROD CONTROL SYSTEM WITHOUT DOCUMENTED INSTRUCTIONS OR DRAWINGS APPROPRIATE TO THE CIRCUMSTANCES. FUSES WERE REMOVED FROM THE SYSTEM WITHOUT A COMPLETE UNDERSTANDING OF WHAT CIRCUITRY THE FUSES SUPPLIED. CONSEQUENTLY, PORTIONS OF THE ROD CONTROL CIRCUITRY FOR 3 RODS WERE DE-ENERGIZED WHILE ONLY ONE ROD WAS THOUGHT TO BE AFFECTED. DURING A UNIT 3 REACTOR SHUTDOWN, THIS UNEXPECTEDLY RESULTED IN MULTIPLE RODS DROPPING INTO THE CORE, REQUIRING AS MANUAL REACTOR TRIP. (4) ON JANUARY 10, 1985, OTSC 5676 WAS APPROVED TO ONOP 0208.11, AN ANNUNCIATOR RESPONSE PROCEDURE, AND AS OF JANUARY 13, 1988, IT HAD NOT BEEN ENTERED INTO THE ONOP. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION III, AS IMPLEMENTED BY THE APPROVED FLORIDA POWER AND LIGHT COMPANY TOPICAL QUALITY ASSURANCE REPORT (FPLTQAR) 1-76A, REVISION 10, TOPICAL QUALITY REQUIREMENT (TQR) 3.0, REVISION 5, IN JANUARY 1988, INSPECTIONS IDENTIFIED THAT DESIGN INPUTS CONTAINED INPLANT CHANGE MODIFICATIONS (PCMS) 85-175 AND 85-176, HAD NOT BEEN CORRECTLY TRANSLATED INTO OPERATING PROCEDURES AND THE SYSTEM DESCRIPTION. (8705 4)

UNDERGROUND PA BARRIER. UNALARMED PA BARRIER. INADEQUATE ALARM TEST.
(8800 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

SELECT SAFETY SYSTEM OPERABILITY REVIEW IN PROGRESS.

FACILITY ITEMS (PLANS AND PROCEDURES):

PROCEDURE UPGRADE PROGRAM (PU) IN PROGRESS.

MANAGERIAL ITEMS:

PEP IN PROGRESS.

PLANT STATUS:

REFUELING OUTAGE. PLANT IN COLD SHUTDOWN.

LAST IE SITE INSPECTION DATE: FEBRUARY 25 - MARCH 25, 1988 +

INSPECTION REPORT NO: 50-251/88-07 +

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* TURKEY POINT 4 *

REPORTS FROM LICENSEE

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

NONE.

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1. Docket: 50-271 OPERATING STATUS

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>136,825.8</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>107,748.1</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,903.0</u> | <u>105,193.0</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,130,656</u> | <u>4,569,658</u> | <u>154,310,356</u> |
| 18. Gross Elec Ener (MWH) | <u>381,815</u> | <u>1,545,698</u> | <u>51,385,642</u> |
| 19. Net Elec Ener (MWH) | <u>365,556</u> | <u>1,482,362</u> | <u>48,777,449</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>76.9</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>100.0</u> | <u>76.9</u> |
| 22. Unit Cap Factor (MDC Net) | <u>100.9</u> | <u>101.3</u> | <u>70.7</u> |
| 23. Unit Cap Factor (DER Net) | <u>98.9</u> | <u>99.3</u> | <u>69.4</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>6.1</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>5,593.4</u> |

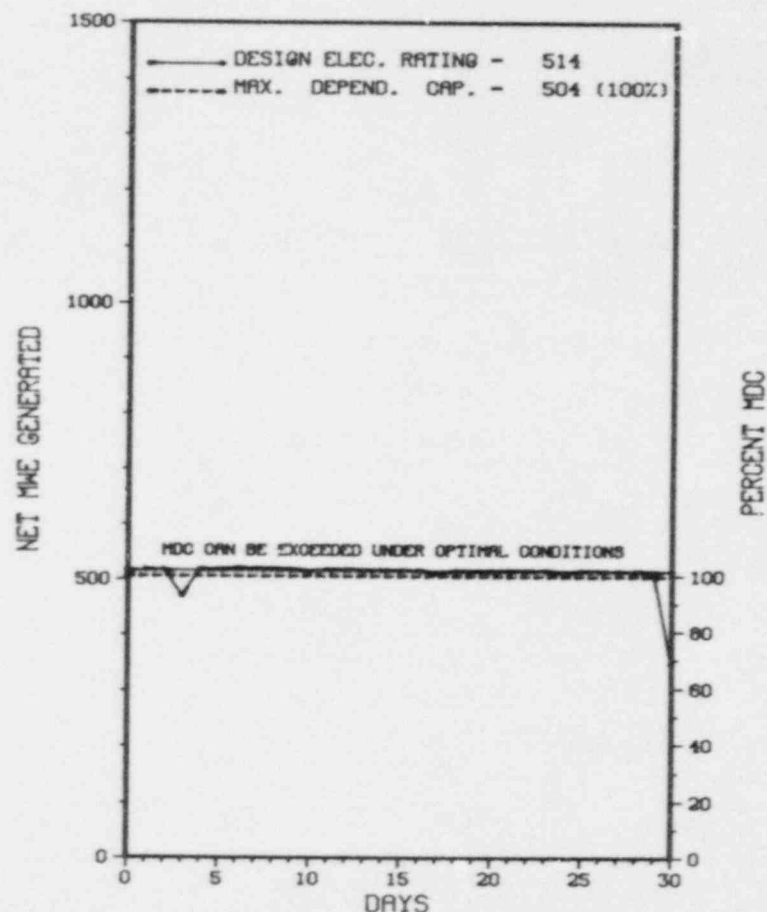
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

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

* VERMONT YANKEE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

VERMONT YANKEE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* VERMONT YANKEE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|--------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-04 | 04/30/88 | S | 0.0 | B | 5 | | RB | CONROD | SINGLE ROD SCRAM TESTING; CONTROL ROD AND TURBINE BYPASS VALVE TESTING; WEEKLY TURBINE SURVEILLANCE AND A ROD PATTERN EXCHANGE. |
| 88-041 | 04/30/88 | S | 0.0 | B | 5 | | CB | XXXXXX | 'A' AND 'B' RECIRCULATION MG SETS REMOVED FROM SERVICE FOR BRUSH WEAR REPLACEMENT. |

* SUMMARY *

VERMONT YANKEE INCURRED 2 SCHEDULED POWER REDUCTIONS IN APRIL
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 APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....VERMONT
 COUNTY.....WINDHAM
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...5 MI S OF
 BRATTLEBORO, VT
 TYPE OF REACTOR.....BWR
 DATE INITIAL CRITICALITY...MARCH 24, 1972
 DATE ELEC ENER 1ST GENER...SEPTEMBER 20, 1972
 DATE COMMERCIAL OPERATE...NOVEMBER 30, 1972
 CONDENSER COOLING METHOD...COOLING TOWER
 CONDENSER COOLING WATER...CONNECTICUT RIVER
 ELECTRIC RELIABILITY
 COUNCIL.....NORTHEAST POWER
 COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
 LICENSEE.....VERMONT YANKEE NUCLEAR POWER
 CORPORATE ADDRESS.....RD #5, BOX 149, 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

10 CFR 50.49 PARA (F) AND (G), AND PARA (K) (FOR DOR GUIDELINE PROVISION) REQUIRE THAT EACH ITEM OF ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY BE QUALIFIED AND THAT QUALIFICATIONS MUST BE COMPLETED NO LATER THAN NOVEMBER 30, 1985. CONTRARY TOTHE ABOVE, ON OCTOBER 23, 1987, QUALIFICATION OF THE EP/HYPALON CABLES WAS NOT ESTABLISHED AT THE TIME OF THE INSPECTION IN THAT THE QUALIFICATION TEST REPORT WAS INVALID BECAUSE OF PROBLEMS IDENTIFIED IN IEIN 84-44 (INADEQUATE QA PROGRAM, TEST EQUIPMENT NOT PROPERLY CALIBRATED, TEST DEFICIENCIES AND TEST ANOMALIES IMPROPERLY DOCUMENTED, AND TEST DOCUMENTS IMPROPERLY CONTROLLED). 10 CFR 50.49 PARA (F) AND (G), AND PARA (K) (FOR DOR GUIDELINE PROVISION) REQUIRE THAT EACH ITEM OF ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY BE QUALIFIED AND THAT QUALIFICATIONS MUST BE COMPLETED NO LATER THAN NOVEMBER 30, 1985. CONTRARY TOTHE ABOVE, ON OCTOBER 23, 1987, QUALIFICATION OF 3M TAPE SPLICE WAS NOT ESTABLISHED AT THE TIME OF THE INSPECTION IN TAHT NO TYPE TEST REPORT NOR ADEQUATE SIMILARITY ANALYSIS WAS ABAILABLE IN THE EQ FILE TO SUPPORT THE TAPE SPLICES QUALIFICATION.

10 CFR 50.49 PARA (F) AND (G), AND PARA (K) (FOR DOR GUIDELINE PROVISION) REQUIRE THAT EACH ITEM OF ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY BE QUALIFIED AND THAT QUALIFICATIONS MUST BE COMPLETED NO LATER THAN NOVEMBER 30, 1985. CONTRARY TOTHE ABOVE, ON OCTOBER 23, 1987, QUALIFICATION OF DINGS BRAKES IN THE LINITORQUE VALVE OPERATOR WAS NOT ESTABLISHED AT THE TIME OF THE INSPECTION

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* VERMONT YANKEE 1 *

ENFORCEMENT SUMMARY

III THAT THE EQ FILE DID NOT CONTAIN EVIDENCE TO DEMONSTRATE THE RADIATION QUALIFICATION OF THE DINGS BRAKES FOR APPLICATION INSIDE THE DRYWELL. 10 CFR 50.49 PARA (F) AND (G), AND PARA (K) (FOR DOR GUIDELINE PROVISION) REQUIRE THAT EACH ITEM OF ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY BE QUALIFIED AND THAT QUALIFICATIONS MUST BE COMPLETED NO LATER THAN NOVEMBER 30, 1985. CONTRARY TOTHE ABOVE, ON OCTOBER 23, 1987, QUALIFICATION OFGE EB-5 TERMINAL BLOCK WAS NOT ESTABLISHED AT THE TIME OF THE INSPECTION IN THAT (1) THE TYPE TEST REPORT DID NOT DEMONSTRATE THAT THIS TERMINAL BLOCK CAN PERFORM ITS SAFETY FUNCTION BECAUSE LOW INSULATION RESISTANCE VALUES WERE OBSERVED DURING THE TEST; (2) NO SIMILARITY ANALYSIS WAS AVAILABLE IN THE EQ FILE FOR GE EB-5 AND GE CR 151B TERMINA BLOCKS. 10 CFR 50.49 PARA (F) AND (G), AND PARA (K) (FOR DOR GUIDELINE PROVISION) REQUIRE THAT EACH ITEM OF ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY BE QUALIFIED AND THAT QUALIFICATIONS MUST BE COMPLETED NO LATER THAN NOVEMBER 30, 1985. CONTRARY TOTHE ABOVE, ON OCTOBER 23, 1987, QUALIFICATION OFRME XLPE/PVC CABLES WAS NOT ESTABLISHED AT THE TIME OF THE INSPECTION IN THAT THE TEST CONDITIONS DID NOT ENVELOPE THE REQUIRED SERVICE CONDITIONS (303 DEG F FOR FOUR HOURS VS. 325 DEG F FOR THREE HOURS). 10 CFR 50.49 PARA (F) AND (G), AND PARA (K) (FOR DOR GUIDELINE PROVISION) REQUIRE THAT EACH ITEM OF ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY BE QUALIFIED AND THAT QUALIFICATIONS MUST BE COMPLETED NO LATER THAN NOVEMBER 30, 1985. CONTRARY TOTHE ABOVE, ON OCTOBER 23, 1987, QUALIFICATION OFLEWIS PF/PVC INSTRUMENTATION CABLES WAS NOT ESTABLISHED AT THE TIME OF THE INSPECTION IN THAT NO VALID TEST REPORT WAS AVAILABLE IN THE EQ FILE TO SUPPORT THE QUALIFICAITON OF THIS TYPE OF CABLES.

(8701 4)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-424 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: S. C. DILWORTH (404) 724-8114 X3870

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1157

6. Design Electrical Rating (Net MWe): 1101

7. Maximum Dependable Capacity (Gross MWe): 1133

8. Maximum Dependable Capacity (Net MWe): 1079

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

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

11. Reasons for Restrictions, If Any:
NONE

| | MONTH | YEAR | CUMULATIVE |
|-------------------------------|------------------|------------------|-------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>8,040.0</u> |
| 13. Hours Reactor Critical | <u>604.6</u> | <u>2,224.9</u> | <u>6,273.0</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>578.5</u> | <u>2,158.6</u> | <u>6,079.0</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>1,907,244</u> | <u>7,116,241</u> | <u>19,777,179</u> |
| 18. Gross Elec Ener (MWH) | <u>635,710</u> | <u>2,371,050</u> | <u>6,554,940</u> |
| 19. Net Elec Ener (MWH) | <u>598,280</u> | <u>2,224,740</u> | <u>6,146,260</u> |
| 20. Unit Service Factor | <u>80.5</u> | <u>74.4</u> | <u>75.6</u> |
| 21. Unit Avail Factor | <u>80.5</u> | <u>74.4</u> | <u>75.6</u> |
| 22. Unit Cap Factor (MDC Net) | <u>77.1</u> | <u>71.0</u> | <u>70.8</u> |
| 23. Unit Cap Factor (DER Net) | <u>75.6</u> | <u>69.6</u> | <u>69.4</u> |
| 24. Unit Forced Outage Rate | <u>19.5</u> | <u>24.4</u> | <u>21.3</u> |
| 25. Forced Outage Hours | <u>140.5</u> | <u>697.3</u> | <u>1,640.9</u> |

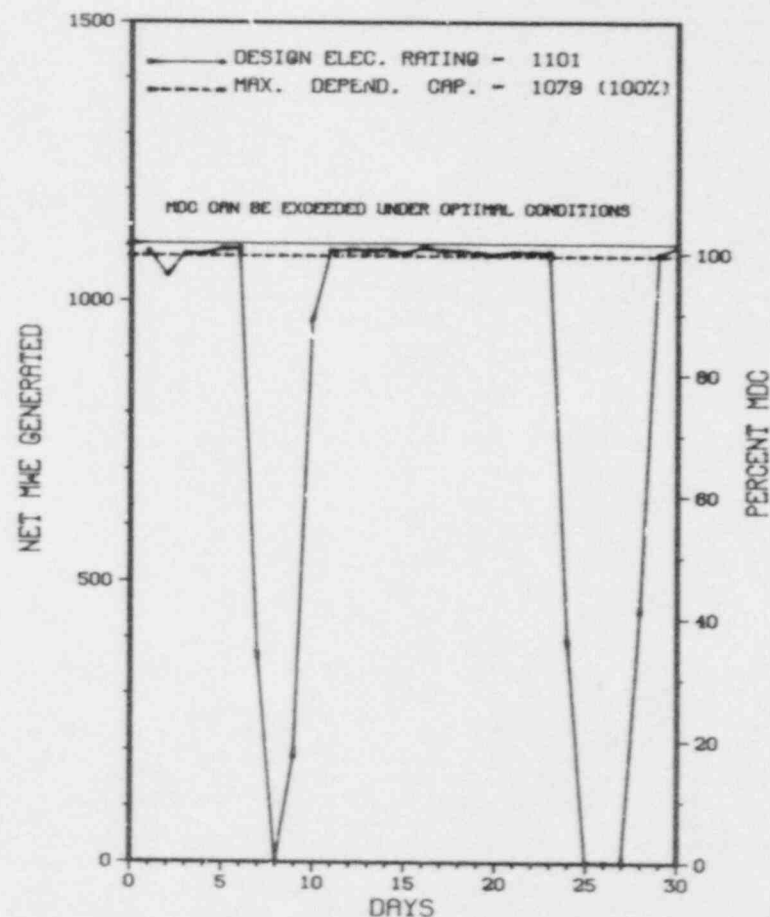
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
REFUELING - SEPTEMBER 18, 1988 - 50 DAY DURATION.

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

* V O G T L E 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

VOGTLE 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* VOGTLE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|------|----------|------|-------|--------|--------|------------|--------|-----------|--|
| 88-7 | 04/07/88 | F | 50.3 | A | 3 | | TJ | TCV | FAILURE OF A LINKAGE SHAFT ON STATOR COOLING VALVE (1TCV-6800) TEMPERATURE CONTROLLER. VIBRATION OF UNDERLYING EQUIPMENT SKID LED THE UNDERSIZED LINKAGE SHAFT TO STRIP THE ENGAGED THREADS AND DROP OUT OF NYLON THUMB NUT, GIVING A SIGNAL FOR 1TCV-6800 TO CLOSE. REPLACED THE UNDERSIZED LINKAGE SHAFT WITH THE CORRECT SIZE SHAFT. |
| 88-8 | 04/24/88 | F | 90.2 | A | 2 | | SJ | ISV | REACTOR OPERATOR MANUALLY TRIPPED THE REACTOR IN ANTICIPATION OF AN AUTOMATIC TRIP DUE TO STEAM GENERATOR NO. 4 LEVEL AT 42%. OPERATORS WERE MANUALLY UNABLE TO OPEN LOOP NO. 4 MAIN FEEDWATER ISOLATION VALVE. THE VALVE WOULD NOT RESPOND TO AN OPEN SIGNAL. REPLACED THOSE COMPONENTS WHICH ACTIVATE THE LOOP NO. 4 MAIN FEEDWATER ISOLATION VALVE. |

* SUMMARY *

VOGTLE 1 INCURRED 2 FORCED POWER OUTAGES IN APRIL 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) |

* VOGTLE 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....GEORGIA
COUNTY.....BURKE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI SSE OF
AUGUSTA, GA
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...MARCH 9, 1987
DATE ELEC ENER 1ST GENER...MARCH 27, 1987
DATE COMMERCIAL OPERATE....JUNE 1, 1987
CONDENSER COOLING METHOD...CCCT
CONDENSER COOLING WATER....SAVANNAH RIVER
ELECTRIC RELIABILITY
COUNCIL.....SOUTHEASTERN ELECTRIC
RELIABILITY COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GEORGIA POWER
CORPORATE ADDRESS.....333 PIEDMONT AVENUE, N.E., P. O. BOX 4545
ATLANTA, GEORGIA 30302
CONTRACTOR
ARCHITECT/ENGINEER.....SOUTHERN SERVICES & BECHTEL
NUC STEAM SYS SUPPLIER...WESTINGHOUSE
CONSTRUCTOR.....GEORGIA POWER CO.
TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II
IE RESIDENT INSPECTOR.....J. ROGGE
LICENSING PROJ MANGER.....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 FEBRUARY 27 - MARCH 25 (88-15): 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 MARCH 7-10 (88-16): THIS SPECIAL, ANNOUNCED INSPECTION WAS IN THE AREAS OF SAFE SHUTDOWN OF THE UNIT 1 WITH LIMITED STAFF IN THE EVENT OF A MAIN CONTROL ROOM FIRE AND EQUIPMENT ACTUATIONS DUE TO FIRE INDUCED SPURIOUS SIGNALS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

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

* V O G T L E 1 *

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: MARCH 7-10, 1988 +

INSPECTION REPORT NO: 50-424/88-16 +

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

| ===== | | | |
|--------|------------------|-------------------|--|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| 88-007 | 03/22/88 | 04/21/88 | PERSONNEL ERROR LEADS TO MISSED TECHNICAL SPECIFICATION SURVEILLANCE |
| ===== | | | |

1. Docket: 50-397 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>29,623.2</u> |
| 13. Hours Reactor Critical | <u>703.0</u> | <u>2,223.2</u> | <u>22,130.3</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>340.4</u> |
| 15. Hrs Generator On-Line | <u>701.4</u> | <u>2,176.2</u> | <u>21,318.1</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>381.7</u> |
| 17. Gross Therm Ener (MWH) | <u>2,280,000</u> | <u>6,719,698</u> | <u>57,102,465</u> |
| 18. Gross Elec Ener (MWH) | <u>746,710</u> | <u>2,244,320</u> | <u>19,061,460</u> |
| 19. Net Elec Ener (MWH) | <u>721,055</u> | <u>2,166,352</u> | <u>18,334,304</u> |
| 20. Unit Service Factor | <u>97.6</u> | <u>75.0</u> | <u>72.0</u> |
| 21. Unit Avail Factor | <u>97.6</u> | <u>75.0</u> | <u>73.3</u> |
| 22. Unit Cap Factor (MDC Net) | <u>91.6</u> | <u>68.2</u> | <u>56.5</u> |
| 23. Unit Cap Factor (DER Net) | <u>91.2</u> | <u>67.8</u> | <u>56.3</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>24.6</u> | <u>9.9</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>709.2</u> | <u>2,354.3</u> |

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

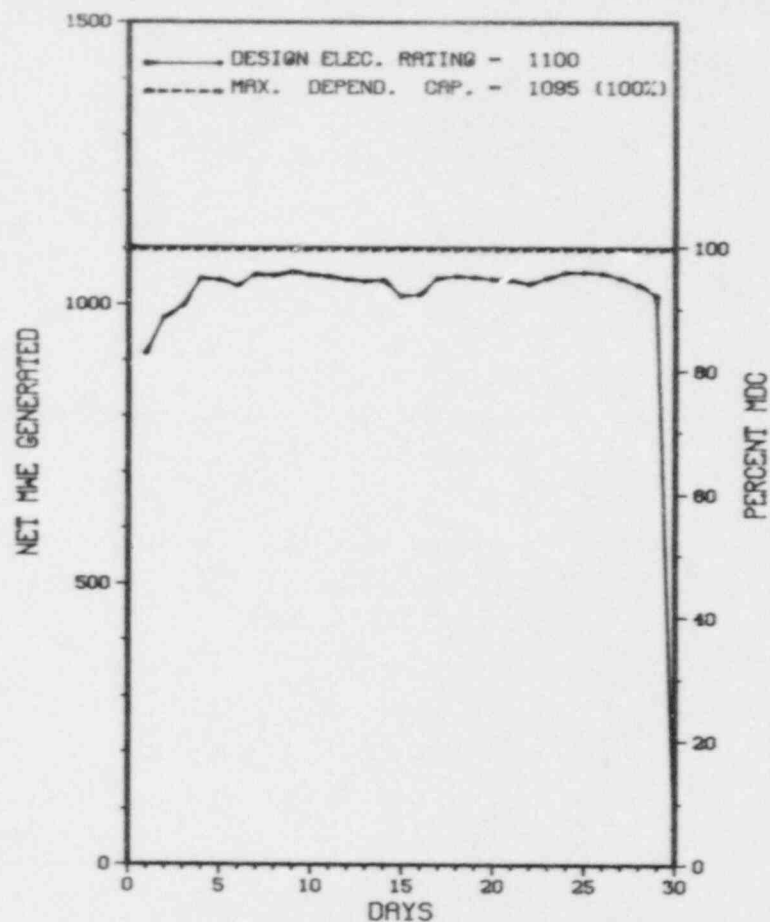
NONE

27. If Currently Shutdown Estimated Startup Date: 06/13/88

* WASHINGTON NUCLEAR 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WASHINGTON NUCLEAR 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * WASHINGTON NUCLEAR 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-07 | 04/30/88 | S | 17.6 | C | 1 | | RC | FUELXX | PLANT SHUTDOWN AS SCHEDULED FOR REFUELING OUTAGE. |

 * SUMMARY *

 WASHINGTON NUCLEAR 2 OPERATED ROUTINELY IN APRIL.
 SHUTDOWN ON 30TH 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) |

* WASHINGTON NUCLEAR 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....WASHINGTON
COUNTY.....BENTON
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...12 MI. NW OF
RICHLAND, WASH.
TYPE OF REACTOR.....BWR
DATE INITIAL CRITICALITY...JANUARY 19, 1984
DATE ELEC ENER 1ST GENER...MAY 27, 1984
DATE COMMERCIAL OPERATE....DECEMBER 13, 1984
CONDENSER COOLING METHOD...COOLING TOWERS
CONDENSER COOLING WATER...MECHANICAL TOWERS
ELECTRIC RELIABILITY
COUNCIL.....WESTERN SYSTEMS
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....WASHINGTON PUBLIC POWER SUPPLY SYSTEM
CORPORATE ADDRESS.....P.O. BOX 968
RICHLAND, WASHINGTON 99352
CONTRACTOR
ARCHITECT/ENGINEER.....BURNS & ROE
NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC
CONSTRUCTOR.....BECHTEL
TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V
IE RESIDENT INSPECTOR.....C. BOSTED
LICENSING PROJ MANAGER.....R. 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 JANUARY 21 - MARCH 10, 1988 (REPORT NO. 50-397/88-02) AREAS INSPECTED: ROUTINE INSPECTION BY THE RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, CONTROL ROOM OPERATIONS, ENGINEERED SAFETY FEATURE STATUS, SURVEILLANCE PROGRAM, MAINTENANCE PROGRAM, PLANT SECURITY, RADIOLOGICAL PROTECTION PRACTICES, DESIGN REVIEW DEFICIENCIES, GENERAL EMPLOYEE AND LICENSED OPERATOR SIMULATOR TRAINING, REACTOR BUILDING ROOF FAILURE, LICENSEE EVENT REPORTS, AND SPECIAL REPORTS REVIEW. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: IN THE AREAS INSPECTED, TWO VIOLATIONS WERE IDENTIFIED INVOLVING INEFFECTIVE CORRECTIVE ACTION IN REMOVING FOAM FILTERS FROM THE CLASS 1E SWITCHGEAR CABINET, AND FAILURE TO PERFORM AN ADEQUATE DESIGN REVIEW OF DESIGN CHANGE PACKAGES ASSOCIATED WITH ANTICIPATED TRANSIENT WITHOUT SCRAM MODIFICATIONS.

- + INSPECTION ON APRIL 26-29, 1988 (REPORT NO. 50-397/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON JUNE 1, 1987 - MAY 31, 1988 (REPORT NO. 50-397/88-08) YEARLY SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE.
- + INSPECTION ON MARCH 11 - APRIL 8, 1988 (REPORT NO. 50-397/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 25 - MAY 13, 1988 (REPORT NO. 50-397/88-12) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON APRIL 5 - 13, 1988 (REPORT NO. 50-397/88-13) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* WASHINGTON NUCLEAR 2 *

INSPECTION SUMMARY

+ INSPECTION ON APRIL 9 - MAY 12, 1988 (REPORT NO. 50-397/88-14) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ EXAMINATIONS ON MARCH 22-23, 1988 (REPORT NO. 50-397/01-88-01) THE WRITTEN EXAMINATION WAS ADMINISTERED TO ONE SENIOR REACTOR OPERATOR CANDIDATE AND ONE REACTOR OPERATOR CANDIDATE. BOTH OF THESE CANDIDATES PASSED THE OPERATING PORTION OF THE EXAMINATION, AND SUBSEQUENTLY PASSED OVERALL. THE OTHER CANDIDATE FAILED THE SIMULATOR PORTION OF THE EXAMINATION. THE CANDIDATE PASSED OVERALL.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ NONE

FACILITY ITEMS (PLANS AND PROCEDURES)

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE PLANT OPERATED AT FULL POWER UNTIL APRIL 29, 1988, WHEN IT WAS SHUT DOWN FOR THE CYCLE 4 REFUELING OUTAGE. THE LICENSEE EXPECTS TO RETURN THE UNIT TO SERVICE IN MIDDLE JUNE.

LAST IE SITE INSPECTION DATE: 06/01/1987 - 05/31/1988+

INSPECTION REPORT NO: 50-397/88-08+

REPORTS FROM LICENSEE

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

NONE

1. Docket: 50-382 O P E R A T I N G S T A T U S

2. Report Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>22,800.0</u> |
| 13. Hours Reactor Critical | <u>23.6</u> | <u>2,107.7</u> | <u>18,212.3</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>23.5</u> | <u>2,053.0</u> | <u>17,867.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>76,267</u> | <u>6,857,785</u> | <u>58,318,757</u> |
| 18. Gross Elec Ener (MWH) | <u>26,160</u> | <u>2,324,390</u> | <u>19,705,200</u> |
| 19. Net Elec Ener (MWH) | <u>17,858</u> | <u>2,216,633</u> | <u>18,749,091</u> |
| 20. Unit Service Factor | <u>3.3</u> | <u>70.7</u> | <u>78.4</u> |
| 21. Unit Avail Factor | <u>3.3</u> | <u>70.7</u> | <u>78.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>2.3</u> | <u>71.0</u> | <u>76.5</u> |
| 23. Unit Cap Factor (DER Net) | <u>2.2</u> | <u>69.2</u> | <u>74.5</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>5.1</u> | <u>9.3</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>111.3</u> | <u>1,840.1</u> |

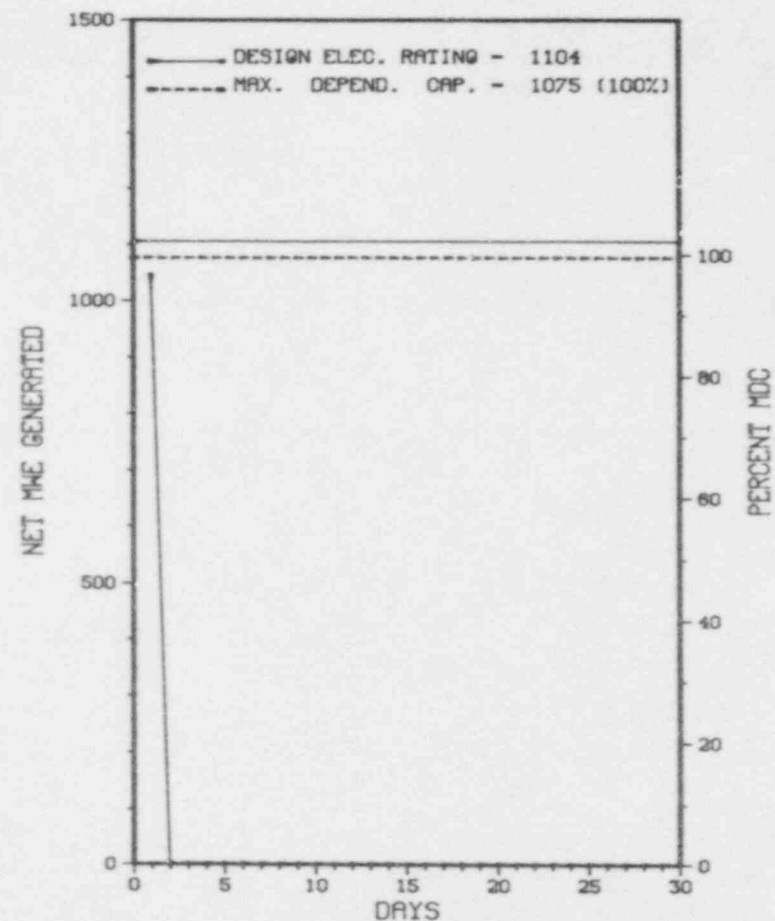
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 05/30/88

* WATERFORD 3 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WATERFORD 3



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * WATERFORD 3 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|------------------|---|
| 88-03 | 04/01/88 | S | 695.5 | C | 1 | | | REFUELING/MAINTENANCE OUTAGE NO. 2. |

 * SUMMARY *

 WATERFORD 3 SHUTDOWN FOR SCHEDULED REFUELING IN APRIL.

| 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) |

* WATERFORD 3 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....LOUISIANA

COUNTY.....ST CHARLES

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...20 MI W OF
NEW ORLEANS, LA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MARCH 4, 1985

DATE ELEC ENER 1ST GENER...MARCH 18, 1985

DATE COMMERCIAL OPERATE...SEPTEMBER 24, 1985

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER...MISSISSIPPI RIVER

ELECTRIC RELIABILITY
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....LOUISIANA POWER & LIGHT

CORPORATE ADDRESS.....142 DELARONDE STREET
NEW ORLEANS, LOUISIANA 70174

CONTRACTOR
ARCHITECT/ENGINEER.....EBASCO

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....EBASCO

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV

IE RESIDENT INSPECTOR.....T. STAKER

LICENSING PROJ MANAGER.....D. WIGGINTON
DOCKET NUMBER.....50-382

LICENSE & DATE ISSUANCE....NPF-38, MARCH 16, 1985

PUBLIC DOCUMENT ROOM.....HEAD LIBRARIAN
LOUISIANA COLLECTION
EARL K. LONG LIBRARY
UNIVERSITY OF NEW ORLEANS
LAKEFRONT DRIVE
NEW ORLEANS, LOUISIANA 70148

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED MARCH 7-11, 1988 (88-05) ROUTINE, UNANNOUNCED INSPECTION CONSISTING OF: (1) OPERATIONAL SAFETY 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. ONE PREVIOUSLY IDENTIFIED VIOLATION AND ONE UNRESOLVED ITEM WERE CLOSED.

INSPECTION CONDUCTED FEB. 29 - MARCH 4, 1988 (88-06) NONROUTINE, ANNOUNCED INSPECTION OF DIESEL GENERATOR RELIABILITY/OPERABILITY AND TECHNICAL SPECIFICATIONS REPORTABILITY. WITHIN THE TWO AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* WATERFORD 3 *

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

RCP 2B EXPERIENCING EXCESSIVE UPPER MOTOR BEARING TEMPERATURES DUE TO CLOGGING LUBE OIL STRAINER. MAY REQUIRE A BRIEF FORCED OUTAGE PRIOR TO SHUTDOWN FOR RFO-2 TO CLEAN THE STRAINER.

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT FULL POWER

LAST IE SITE INSPECTION DATE: MARCH 11, 1988

INSPECTION REPORT NO: 50-382/88-05

REPORTS FROM LICENSEE

| ===== | | | |
|--------|------------------|-------------------|---------|
| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
| ----- | | | |
| NONE | | | |
| ===== | | | |

1. Docket: 50-482 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: M. WILLIAMS (316) 364-8831

4. Licensed Thermal Power (MWh): 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>719.0</u> | <u>2,903.0</u> | <u>23,302.7</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,299.6</u> | <u>17,766.1</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>89.5</u> | <u>339.8</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,146.4</u> | <u>17,349.5</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>19.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,452,604</u> | <u>7,152,708</u> | <u>56,579,092</u> |
| 18. Gross Elec Ener (MWH) | <u>859,975</u> | <u>2,508,235</u> | <u>19,697,126</u> |
| 19. Net Elec Ener (MWH) | <u>827,320</u> | <u>2,390,129</u> | <u>18,802,437</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>73.9</u> | <u>74.5</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>73.9</u> | <u>74.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>102.0</u> | <u>73.0</u> | <u>54.7*</u> |
| 23. Unit Cap Factor (DER Net) | <u>98.3</u> | <u>70.4</u> | <u>69.0</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>23.0</u> | <u>8.0</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>640.7</u> | <u>1,517.0</u> |

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

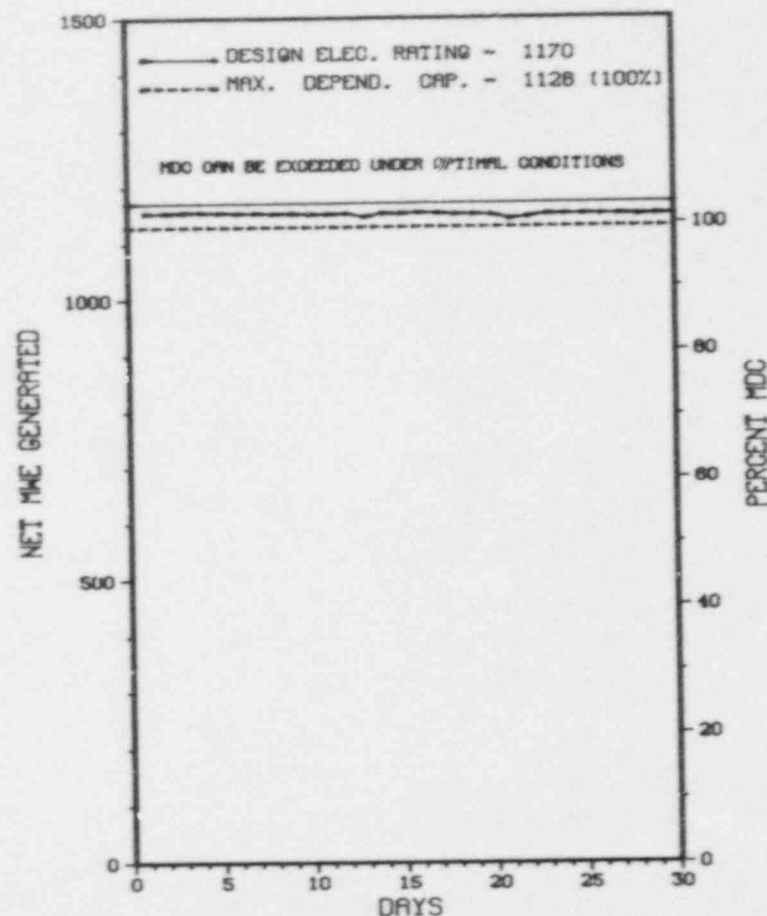
REFUELING, OCTOBER 1, 1988, 60 DAY DURATION.

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

* WOLF CREEK 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WOLF CREEK 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * WOLF CREEK 1 *

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

NONE

 * SUMMARY *

 WOLF CREEK OPERATED ROUTINELY IN APRIL 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) |

* WOLF CREEK 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....KANSAS
COUNTY.....COFFEY
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...3.5 MI NE OF
BURLINGTON, KAN
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...MAY 22, 1985
DATE ELEC ENER 1ST GENER...JUNE 12, 1985
DATE COMMERCIAL OPERATE...SEPTEMBER 3, 1985
CONDENSER COOLING METHOD...COOLING LAKE
CONDENSER COOLING WATER...COOLING LAKE
ELECTRIC RELIABILITY
CCJNCIL.....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 MARCH 14-18, 1988 (88-09) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S SOLID RADWASTE AND TRANSPORTATION PROGRAM. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

INSPECTION CONDUCTED MARCH 7-11, 1988 (88-12) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S EMERGENCY PLAN FACILITIES AND TRAINING. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period APR 1988

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

* WOLF CREEK 1 *

OTHER ITEMS

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

PLANT STATUS:

LAST IE SITE INSPECTION DATE: MARCH 18, 1988

INSPECTION REPORT NO: 50-482/88-09

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: 04/01/88 Outage + On-line Hrs: 719.0

3. Utility Contact: S. WHIPPLE (617) 872-8100

4. Licensed Thermal Power (MWh): 600

5. Nameplate Rating (Gross MWe): 185 X 1.0 = 185

6. Design Electrical Rating (Net MWe): 175

7. Maximum Dependable Capacity (Gross MWe): 180

8. Maximum Dependable Capacity (Net MWe): 167

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

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

11. Reasons for Restrictions, If Any: NONE

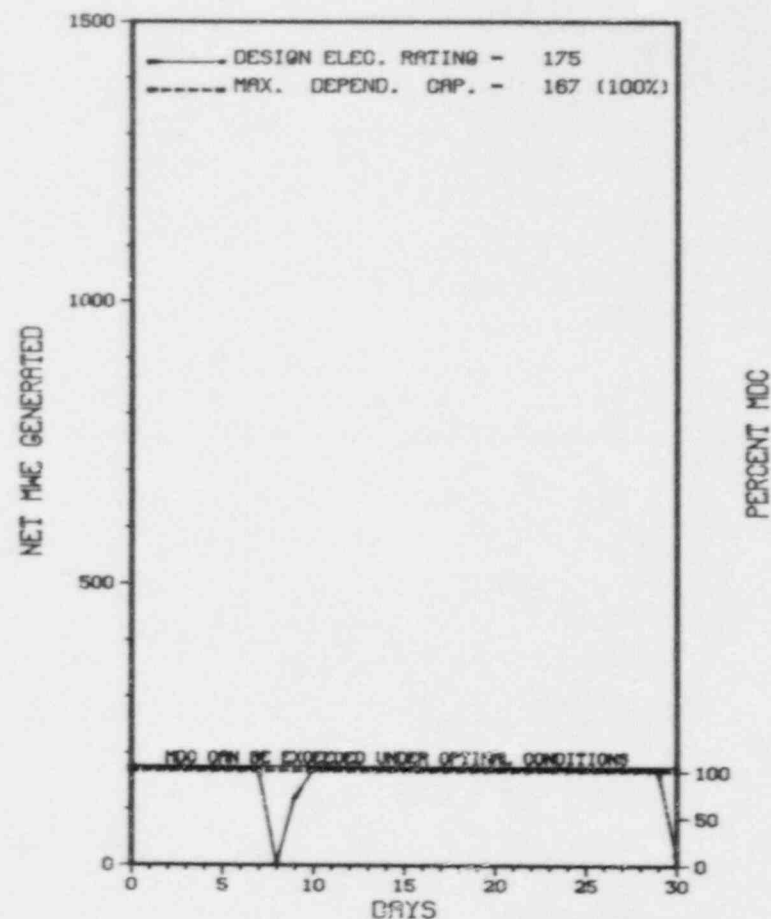
| | MONTH | YEAR | CUMULATIVE |
|--|----------------|------------------|--------------------|
| 12. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>240,668.0</u> |
| 13. Hours Reactor Critical | <u>705.4</u> | <u>2,822.5</u> | <u>193,935.4</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 15. Hrs Generator On-Line | <u>696.4</u> | <u>2,791.0</u> | <u>188,872.4</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>402,314</u> | <u>1,583,828</u> | <u>103,196,853</u> |
| 18. Gross Elec Ener (MWH) | <u>122,664</u> | <u>481,525</u> | <u>31,266,470</u> |
| 19. Net Elec Ener (MWH) | <u>114,864</u> | <u>450,292</u> | <u>29,254,836</u> |
| 20. Unit Service Factor | <u>96.9</u> | <u>96.1</u> | <u>78.5</u> |
| 21. Unit Avail Factor | <u>96.9</u> | <u>96.1</u> | <u>78.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>95.7</u> | <u>92.9</u> | <u>74.6*</u> |
| 23. Unit Cap Factor (DER Net) | <u>91.3</u> | <u>88.6</u> | <u>71.1*</u> |
| 24. Unit Forced Outage Rate | <u>1.0</u> | <u>3.3</u> | <u>5.1</u> |
| 25. Forced Outage Hours | <u>7.1</u> | <u>96.5</u> | <u>9,000.4</u> |
| 26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): | <u>NONE</u> | | |

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

 * YANKEE-ROWE 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

YANKEE-ROWE 1



APRIL 1988

* Item calculated with a Weighted Average

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * YANKEE-ROWE 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-------|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 88-10 | 04/06/88 | F | 7.1 | H | 2 | | | | INSPECTION OF THE ISOLATION VALVE BOLTING FOR POSSIBLE CORROSION DUE TO BORON ACCUMULATION. NO CORROSION WAS FOUND. |
| 88-11 | 04/30/88 | S | 15.5 | H | 1 | | | | SHUTDOWN PLANT TO CHANGE BATTERY NO. 3. |

 * SUMMARY *

 YANKEE ROWE INCURRED 2 OUTAGES DURING APRIL 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) |

* YANKEE-ROWE 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MASSACHUSETTS

COUNTY.....FRANKLIN

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI NE OF
PITTSFIELD, MASS

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...AUGUST 19, 1960

DATE ELEC ENER 1ST GENER...NOVEMBER 10, 1960

DATE COMMERCIAL OPERATE....JULY 1, 1961

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....DEERFIELD RIVER

ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....YANKEE ATOMIC ELECTRIC

CORPORATE ADDRESS.....1671 WORCESTER RD.
FRAMINGHAM, MASSACHUSETTS 01701

CONTRACTOR
ARCHITECT/ENGINEER.....STONE & WEBSTER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....H. EICHENHOLZ

LICENSING PROJ MANAGER....M. FAIRTILE
DOCKET NUMBER.....50-029

LICENSE & DATE ISSUANCE....DPR-3, DECEMBER 24, 1963

PUBLIC DOCUMENT ROOM.....GREENFIELD COMMUNITY COLLEGE
1 COLLEGE DRIVE
GREENFIELD, MASSACHUSETTS 01301

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

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 50, PART 50.72(B)(1)(A) REQUIRES THE LICENSEE TO NOTIFY THE NRC OPERATIONS CENTER VIA THE EMERGENCY NOTIFICATION SYSTEM AS SOON AS PRACTICAL AND IN ALL CASES WITHIN ONE HOUR OF THE OCCURENCE OF THE INITIATION OF ANY NUCLEAR PLANT SHUTDOWN REQUIRED BY THE PLANT'S TS. CONTRARY TO THE ABOVE, THE REQUIERMENT OF 10 CFR 50.72(B)(1)(A) WAS NOT MET ON DECEMBER 3, 1987, IN THAT THE NRC WAS NOT NOTIFIED WITHIN ONE HOUR OF THE INITIATION OF PLANT SHUTDOWN AS REQUIRED BY TS 3.0.3. SPECIFICALLY, THE CHANNEL 1 MAIN STEAM LINE PRESSURE SWITCH ON THE NO 3 STEAM LINE WAS DECLARED INOPERABLE AT 10:40 A.M. TS TABLE 3.3.2 ACTION STATEMENT 6 REQUIRES THAT THE INOPERABLE CHANNEL BE PLACES IN THE TRIPPED CONDITION WITHIN ONE HOUR; IF NOT, PLANT SHUTDOWN IS TO BE INITIATED IN ACCORDANCE WITH TS 3.0.3. PLANT SHUTDOWN WAS INITIATED AT 11:40 A.M. AS REQUIRED BY TS; HOWEVER, THE REQUIRED ENS NOTIFICATION TO THE NRC PER 10 CFR 50.72(B) WAS NOT MADE UNTIL 1:40 P.M., ONE HOUR LATE.
(2701 5)

OTHER ITEMS

Report Period APR 1988

INSPECTION STATUS - (CONTINUED)

* YANKEE-ROWE 1 *

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLAN: 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: 50-295 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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>719.0</u> | <u>2,903.0</u> | <u>125,639.0</u> |
| 13. Hours Reactor Critical | <u>.0</u> | <u>1,306.2</u> | <u>87,391.6</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>2,621.8</u> |
| 15. Hrs Generator On-Line | <u>.0</u> | <u>1,306.2</u> | <u>84,846.7</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>0</u> | <u>3,999,310</u> | <u>245,225,637</u> |
| 18. Gross Elec Ener (MWH) | <u>0</u> | <u>1,362,467</u> | <u>78,578,098</u> |
| 19. Net Elec Ener (MWH) | <u>-7,071</u> | <u>1,292,975</u> | <u>74,665,368</u> |
| 20. Unit Service Factor | <u>.0</u> | <u>45.0</u> | <u>67.5</u> |
| 21. Unit Avail Factor | <u>.0</u> | <u>45.0</u> | <u>67.5</u> |
| 22. Unit Cap Factor (MDC Net) | <u>.0</u> | <u>42.8</u> | <u>57.1</u> |
| 23. Unit Cap Factor (DER Net) | <u>.0</u> | <u>42.8</u> | <u>57.1</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.9</u> | <u>12.7</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>12.0</u> | <u>11,680.2</u> |

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

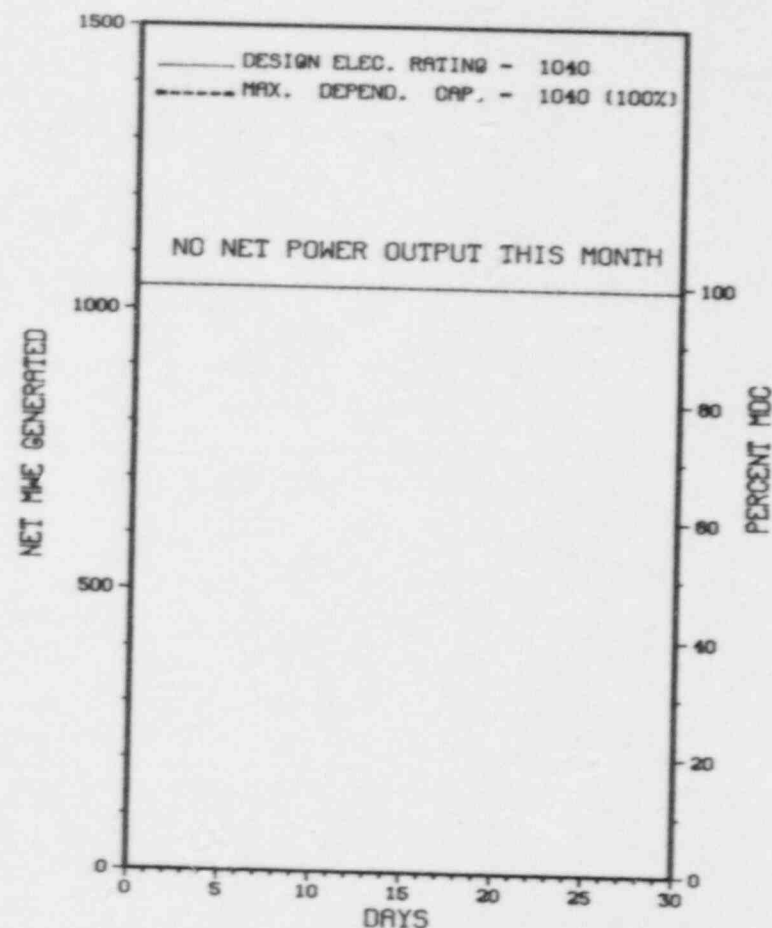
NONE

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

* ZION 1 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 1



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

* ZION 1 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|------------------|---|
| 1 | 02/24/88 | S | 719.0 | C | 4 | | | CONTINUED CYCLE 10-11 REFUELING OUTAGE. |

***** ZION 1 REMAINED SHUTDOWN IN APRIL FOR SCHEDULED REFUELING OUTAGE.
* 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 1 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS
COUNTY.....LAKE
DIST AND DIRECTION FROM
NEAREST POPULATION CTR...40 MI N OF
CHICAGO, ILL
TYPE OF REACTOR.....PWR
DATE INITIAL CRITICALITY...JUNE 19, 1973
DATE ELEC ENER 1ST GENER...JUNE 28, 1973
DATE COMMERCIAL OPERATE...DECEMBER 31, 1973
CONDENSER COOLING METHOD...ONCE THRU
CONDENSER COOLING WATER...LAKE MICHIGAN
ELECTRIC RELIABILITY
COUNCIL.....MID-AMERICA
INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
IE RESIDENT INSPECTOR.....M. HOLZMER
LICENSING PROJ MANAGER.....J. NORRIS
DOCKET NUMBER.....50-295
LICENSE & DATE ISSUANCE...DPR-39, OCTOBER 19, 1973
PUBLIC DOCUMENT ROOM.....WAUKEGAN PUBLIC LIBRARY
128 N. COUNTY STREET
WAUKEGAN, ILLINOIS 60085

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON MARCH 2-4, 1988 (88007; 88008): ROUTINE, ANNOUNCED INSPECTION by Region based inspector of the containment leak rate test (CILRT) procedure; CILRT performance witnessing; review of CILRT results; review of the Unit 2 CILRT report dated March 31, 1986; and review of licensee action on previous inspection findings. NRC modules utilized during this inspection include 70307, 70313, 70323, 90713 and 92701. No violations or deviations were identified.

INSPECTION FROM JANUARY 15 THROUGH FEBRUARY 24, 1988 (87005; 87006): ROUTINE unannounced resident inspection of licensee action on previous inspection findings, summary of operations; operational safety verification and engineered safety feature (ESF) system walkdown; surveillance observation; maintenance observation; licensee event reports (LERs); training; cold weather preparations; IE Bulletin 84-02; IEN 87-04; IEN 87-08; IEN 87-47; IEN 87-34; IEN 87-24; IEN 87-42; and site visit by Section Chief. Of the 17 areas inspected, no violations or deviations were identified.

INSPECTION CONDUCTED DURING THE PERIOD OF NOVEMBER 16, 1987 THROUGH MARCH 14, 1988 (87034; 87035): Special, announced safety inspection conducted to assess compliance with 10 CFR 50, Appendix R, and review Fire Protection Program requirements. The following inspection modules were utilized by the inspectors: 2515-62 and 64704. Of the areas inspected, four violations were identified (failure to adequately establish, implement and maintain procedures; failure to update and comply with technical surveillance requirements for fire walls; failure to provide adequate emergency lighting, and failure to meet a license condition to install a Fire Pump Controller).

INSPECTION STATUS - (CONTINUED)

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*****
*                ZION 1                *
*****

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NONE

SYSTEMS AND COMPONENT PROBLEMS:

N° 4E

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: 04/13/88

INSPECTION REPORT NO: 88009

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-03 | 030288 | 033188 | QUARTERLY COMPOSITL SAMPLE UNABLE TO MEET LOWER LIMIT OF DETECTION REQUIREMENTS |
| 88-06 | 032588 | 042288 | SERVICE WATER PUMP FLOWRATE BELOW REQUIRED DILUTION FLOW DURING A RADIOACTIVE LIQUID WASTE RELEASE |
| 88-07 | 032688 | 042588 | FAILURE OF HYDRAULIC STEAM GENERATOR SNUBBERS DUE TO CONTAMINATED HYDRAULIC FLUID |

1. Docket: 50-304 O P E R A T I N G S T A T U S

2. Reporting Period: 04/01/88 Outage + On-line Hrs: 719.0

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 |
|-------------------------------|------------------|------------------|--------------------|
| 1. Report Period Hrs | <u>719.0</u> | <u>2,903.0</u> | <u>119,352.0</u> |
| 13. Hours Reactor Critical | <u>719.0</u> | <u>2,903.0</u> | <u>87,675.6</u> |
| 14. Rx Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>226.1</u> |
| 15. Hrs Generator On-Line | <u>719.0</u> | <u>2,903.0</u> | <u>85,267.3</u> |
| 16. Unit Reserve Shtdwn Hrs | <u>.0</u> | <u>.0</u> | <u>.0</u> |
| 17. Gross Therm Ener (MWH) | <u>2,092,971</u> | <u>8,776,147</u> | <u>253,469,914</u> |
| 18. Gross Elec Ener (MWH) | <u>702,773</u> | <u>2,954,369</u> | <u>89,296,502</u> |
| 19. Net Elec Ener (MWH) | <u>672,339</u> | <u>2,831,315</u> | <u>76,457,135</u> |
| 20. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>71.4</u> |
| 21. Unit Avail Factor | <u>100.0</u> | <u>100.0</u> | <u>71.4</u> |
| 22. Unit Cap Factor (MDC Net) | <u>89.9</u> | <u>93.8</u> | <u>61.6</u> |
| 23. Unit Cap Factor (DER Net) | <u>89.9</u> | <u>93.8</u> | <u>61.6</u> |
| 24. Unit Forced Outage Rate | <u>.0</u> | <u>.0</u> | <u>13.9</u> |
| 25. Forced Outage Hours | <u>.0</u> | <u>.0</u> | <u>13,795.9</u> |

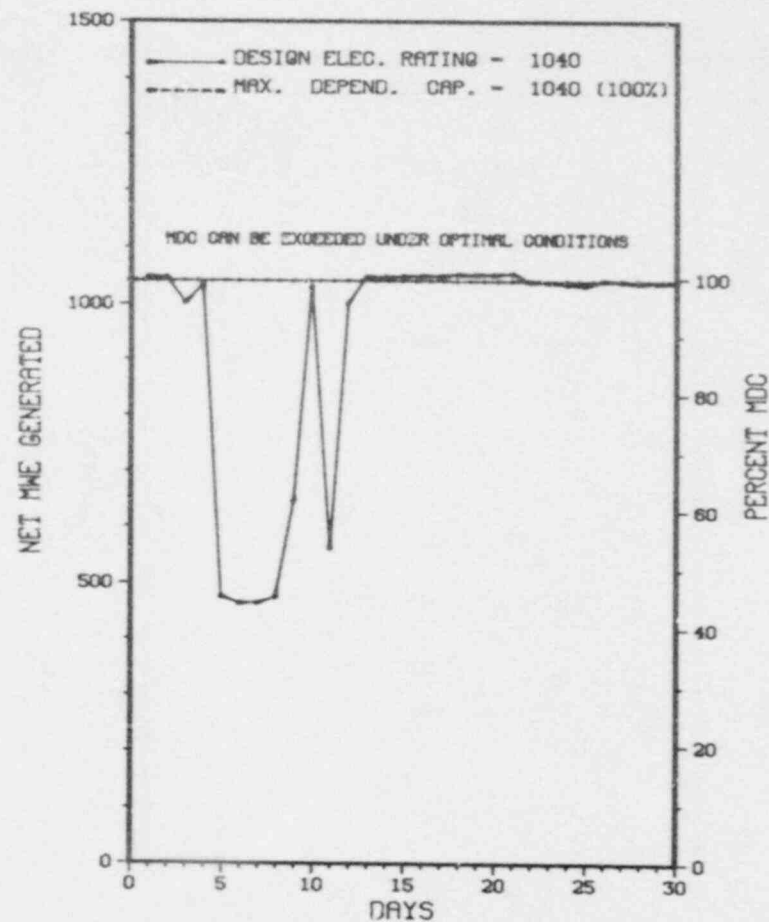
26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): NONE

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

* Z I O N 2 *

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 2



APRIL 1988

Report Period APR 1988

UNIT SHUTDOWNS / REDUCTIONS

 * ZION 2 *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 5 | 04/05/88 | S | 0.0 | B | 5 | | | | REDUCED POWER TO 50% FOR TESTING OF THE MAIN STEAM SAFETY VALVES. |

***** ZION 2 INCURRED 1 POWER REDUCTION IN APRIL FOR REASONS
 * SUMMARY * STATED ABOVE.

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

 * ZION 2 *

FACILITY DATA

Report Period APR 1988

FACILITY DESCRIPTION

LOCATION
 STATE.....ILLINOIS
 COUNTY.....LAKE
 DIST AND DIRECTION FROM
 NEAREST POPULATION CTR...40 MI N OF
 CHICAGO, ILL
 TYPE OF REACTOR.....PWR
 DATE INITIAL CRITICALITY...DECEMBER 24, 1973
 DATE ELEC ENER 1ST GENER...DECEMBER 26, 1973
 DATE COMMERCIAL OPERATE...SEPTEMBER 17, 1974
 CONDENSER COOLING METHOD...ONCE THRU
 CONDENSER COOLING WATER...LAKE MICHIGAN
 ELECTRIC RELIABILITY
 COUNCIL.....MID-AMERICA
 INTERPOOL NETWORK

UTILITY & CONTRACTOR INFORMATION

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

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III
 IE RESIDENT INSPECTOR.....M. HOLZMER
 LICENSING PROJ MANAGER.....J. NORRIS
 DOCKET NUMBER.....50-304
 LICENSE & DATE ISSUANCE...DPR-48, NOVEMBER 14, 1973
 PUBLIC DOCUMENT ROOM.....WAUKEGAN PUBLIC LIBRARY
 128 N. COUNTY STREET
 WAUKEGAN, ILLINOIS 60085

INSPECTION SUMMARY

INSPECTION STATUS

INSPECTION ON MARCH 2-4, 1988 ((88007; 88008): ROUTINE, (ANNOUNCED INSPECTION by Region based inspector of the containment leak rate test (CILRT) procedure; CILRT performance witnessing; review of CILRT results; review of the Unit 2 CILRT report dated March 31, 1986; and review of licensee action on previous inspection findings. NRC modules utilized during this inspection include 70307, 70313, 70323, 90713 and 92701. No violations or deviations were identified.

INSPECTION FROM JANUARY 15 THROUGH FEBRUARY 24, 1988 (87005; 87006): ROUTINE, unannounced resident inspection of licensee action on previous inspection findings; summary of operations; operational safety verification and engineered safety feature (ESF) system walkdown; surveillance observation; maintenance observation; licensee event reports (LERs); training; cold weather preparations; IE Bulletin 84-02; IEN 87-04; IEN 87-08; IEN 87-47; IEN 87-34; IEN 87-24; IEN 87-42; and site visit by Section Chief. Of the 17 areas inspected, no violations or deviations were identified.

INSPECTION CONDUCTED DURING THE PERIOD OF NOVEMBER 16, 1987 THROUGH MARCH 14, 1988 (87034; 87035): Special, announced safety inspection conducted to assess compliance with 10 CFR 50, Appendix R, and review Fire Protection Program requirements. The following inspection modules were utilized by the inspectors: 2515-62 and 64704. Of the areas inspected, four violations were identified (failure to adequately establish, implement and maintain procedures; failure to update and comply with technical surveillance requirements for fire walls; failure to provide adequate emergency lighting, and failure to meet a license condition to install a Fire Pump Controller).

INSPECTION STATUS - (CONTINUED)

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                      ZION 2                      X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NONE

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: 04/12/88

INSPECTION REPORT NO: 88010

REPORTS FROM LICENSEE

| NUMBER | DATE OF
EVENT | DATE OF
REPORT | SUBJECT |
|--------|------------------|-------------------|--|
| 88-04 | 022488 | 032588 | FAILURE OF 2 DIESEL GENERATORS WHILE UNIT IS IN HOT SHUTDOWN |
| 88-02 | 031288 | 041188 | UNIT 2 STEAM GENERATOR SAFETIES INOPERABLE |

SECTION 3

APPENDIX

* PRESSURIZED* STATUS OF SPENT FUEL STORAGE CAPABILITY

* WATER *

* REACTORS *

| FACILITY
***** | CORE SIZE
(NO. OF
ASSEMBLIES)
***** | PRESENT AUTH.
STORAGE POOL CAP.
(FUEL ASSEMBLIES)
***** | NO. OF
ASSEMBLIES REMAINING
STORED (NO. OF ASSEMBLIES)
***** | CAPACITY
(NO. OF ASSEMBLIES)
***** | REMAINING CAPACITY
IF PENDING REQUEST
APPROVED | NEXT REFUEL
SCHED. DATE
***** | WILL FILL PRESENT
AUTH. CAPACITY
***** |
|-------------------|--|--|---|--|--|-------------------------------------|--|
| | | | | | (NO. OF ASSEMBLIES)
***** | | |
| ARKANSAS 1 | 177 | 968 | 488 | 480 | | 09-88 | 1997 |
| ARKANSAS 2 | 177 | 988 | 289 | 699 | | 02-88 | 1999 |
| BEAVER VALLEY 1 | 157 | 833 | 284 | 549 | | 12-87 | 1995 |
| BEAVER VALLEY 2 | | | | | | N/S | |
| BRAIDWOOD 1 | 193 | 1050 | 0 | 1050 | | N/S | |
| BYRON 1 | 193 | 1050 | 0 | 1050 | | N/S | 1995 |
| BYRON 2 | 193 | 1050 | 0 | 1050 | | N/S | |
| CALLAWAY 1 | 193 | 1340 | 180 | 1160 | | 03-89 | 2005 |
| CALVERT CLIFFS 1 | 217 | 1830(c) | 1138(c) | 692(c) | | 04-88 | 1991 |
| CALVERT CLIFFS 2 | 217 | | | | | 04-89 | 1991 |
| CATAWBA 1 | 193 | 1418 | 132 | 1286 | | 12-88 | 2011 |
| CATAWBA 2 | 193 | 1418 | 0 | 1418 | | 12-87 | 2013 |
| COOK 1 | 193 | 2050(c) | 866(c) | 1184(c) | | N/S | 1994 |
| COOK 2 | 193 | | | | | N/S | 1994 |
| CRYSTAL RIVER 3 | 177 | 1163 | 328 | 829 | | 09-87 | 1997 |
| DAVIS-BESSE 1 | 177 | 735 | 204 | 531 | | 03-88 | 1993 |
| DIABLO CANYON 1 | 193 | 1400 | 0 | 1400 | | 03-88 | 1993 |
| DIABLO CANYON 2 | 193 | 1400 | | 1400 | | N/S | |
| FARLEY 1 | 157 | 1407 | 273 | 1134 | | 03-88 | 1991 |
| FARLEY 2 | 157 | 1407 | 240 | 1167 | | 10-87 | 1994 |
| FORT CALHOUN 1 | 133 | 729 | 393 | 336 | | 09-88 | 1996 |
| GINNA | 121 | 1016 | 420 | 596 | | 02-88 | 1993 |
| HADDAM NECK | 157 | 1168 | 653 | 515 | | 07-87 | 1996 |
| HARRIS 1 | 157 | | 0 | | | N/S | |
| INDIAN POINT 1(d) | 0 | 288 | 160 | 128 | | N/S | |
| INDIAN POINT 2 | 193 | 980 | 460 | 520 | | 10-87 | 1993 |
| INDIAN POINT 3 | 193 | 840 | 292 | 548 | | N/S | 1993 |
| KEWAUNEE | 121 | 990 | 376 | 614(m) | | 03-88 | 1993 |
| MAINE YANKEE | 217 | 1476 | 721 | 755 | | N/S | 1987 |
| MCGUIRE 1 | 193 | 1463 | 293 | 1170(n) | | 11-88 | 2010 |
| MCGUIRE 2 | 193 | 1463 | 424 | 1039 | | 05-88 | 2010 |
| MILLSTONE 2 | 217 | 1277 | 512 | 765 | | 01-88 | 1994 |
| MILLSTONE 3 | 193 | 756 | 84 | 672 | | 06-89 | 1996 |
| NORTH ANNA 1 | 157 | 1737(c) | 520(c) | 1217 | | 04-87 | 1993 |
| NORTH ANNA 2 | 157 | | | | | 10-87 | 1993 |
| OCONEE 1 | 177 | 1312(1) | 874 | 438(1)(n) | | 02-89 | 1991 |
| OCONEE 2 | 177 | | | | | 02-88 | 1991 |
| OCONEE 3 | 177 | 875 | 513 | 362 | | 07-88 | 1991 |
| PALISADES | 204 | 798 | 477 | 321 | | N/S | 2002 |
| PALO VERDE 1 | 241 | 1329 | 30 | 1249 | | 10-87 | 2006 |
| PALO VERDE 2 | 241 | 1329 | 0 | 1329 | | 02-88 | 2006 |
| PALO VERDE 3 | 241 | 1329 | 0 | 0 | | 02-89 | 2007 |
| POINT BEACH 1 | 121 | 1502(c) | 875(c) | 626(c) | | 04-88 | 1995 |
| POINT BEACH 2 | 121 | | | | | N/S | 1995 |
| PRAIRIE ISLAND 1 | 121 | 1586(c) | 781(c) | 805(c)(m) | | N/S | 1993 |
| PRAIRIE ISLAND 2 | 121 | | | | | 01-88 | 1993 |
| RANCHO SECO 1 | 177 | 1080 | 316 | 764 | | 03-89 | 2001 |

Report Period APR 1988

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| *****
* PRESSURIZED*
* WATER *
* REACTORS *
***** | | | | | | | | STATUS OF SPENT FUEL STORAGE CAPABILITY | | | |
|---|---|--|---|--|--|-------------------------------------|---|---|--|--|--|
| FACILITY
***** | (a)
CORE SIZE
(NO. OF
ASSEMBLIES)
***** | PRESENT AUTH.
STORAGE POOL CAP.
(FUEL ASSEMBLIES)
***** | NO. OF
ASSEMBLIES
STORED
***** | REMAINING CAPACITY
(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 | | | | |
| SOUTH TEXAS 1 | 0 | 0 | 0 | 0 | | N/S | 1993 | | | | |
| ST LUCIE 1 | 217 | 728 | 372 | 356 | | N/S | 1993 | | | | |
| ST LUCIE 2 | 217 | 1076 | 152 | 924 | | N/S | 2008 | | | | |
| SUMMER 1 | 157 | 1276 | 96 | 1180 | | N/S | 1987 | | | | |
| SURRY 1 | 157 | 1046(c) | 901(c) | 143(c) | | N/S | 1987 | | | | |
| SURRY 2 | 157 | | | | | N/S | 1991 | | | | |
| THREE MILE ISLAND 1 | 177 | 752 | 284 | 468 | | 07-88 | 1991 | | | | |
| THREE MILE ISLAND 2 | 177 | 442 | 0 | 442 | | N/S | | | | | |
| TROJAN | 193 | 1408 | 425 | 983 | | 04-88 | 1993 | | | | |
| TURKEY POINT 3 | 157 | 1404 | 445 | 959(m) | | N/S | 1993 | | | | |
| TURKEY POINT 4 | 157 | 1404 | 482 | 922 | | N/S | 1993 | | | | |
| VOGTLE 1 | 0 | 0 | 0 | 0 | | N/S | | | | | |
| WATERFORD 3 | 217 | 1088 | 0 | 1088 | | N/S | 1993 | | | | |
| WOLF CREEK 1 | 193 | 1340 | 0 | 1340 | | 04-83 | | | | | |
| 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 *

| (a) | | | | REMAINING CAPACITY | | (b) | |
|------------------|-------------------------------------|---|---|---|----------------------------|-------------------------------------|-------|
| FACILITY | CORE SIZE
(NO. OF
ASSEMBLIES) | PRESENT AUTH.
STORAGE POOL CAP.
(FUEL ASSEMBLIES) | NO. OF
ASSEMBLIES REMAINING
STORAGE (NO. OF ASSEMBLIES) | IF PENDING REQUEST
APPROVED
(NO. OF ASSEMBLIES) | NEXT REFUEL
SCHED. DATE | WILL FILL PRESENT
AUTH. CAPACITY | |
| ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |
| BIG ROCK POINT 1 | 84 | 441 | 212 | 229 | 04-88 | 1995 | |
| BROWNS FERRY 1 | 764 | 3471 | 1288 | 2183 | N/S | 1993 | |
| BROWNS FERRY 2 | 764 | 3471 | 1161 | 2310(m) | 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)
CORE SIZE
(NO. OF
ASSEMBLIES)
***** | PRESNT AUTH.
STORAGE POOL CAP.
(FUEL ASSEMBLIES)
***** | NO. OF
ASSEMBLIES REMAINING
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
***** |
| | | | | | | | |
| 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 | 0 | 0 | 0 | 0 | | N/S | |
| PILGRIM 1 | 580 | 2320 | 1320 | 1000 | | 09-89 | 1990 |
| QUAD CITIES 1 | 724 | 3657 | 1773 | 1884 | | 06-89 | 2008 |
| QUAD CITIES 2 | 724 | 3897 | 1311 | 2586 | | 04-88 | 2008 |
| RIVER BEND 1 | | | | | | 09-87 | |
| SUSQUEHANNA 1 | 764 | 2840 | 382 | 2458 | | N/S | 1997 |
| SUSQUEHANNA 2 | 764 | 2840 | 0 | 2840 | | 03-88 | 1997 |
| VERMONT YANKEE 1 | 368 | 2000 | 1296 | 704 | | N/S | 1992 |
| WASHINGTON NUCLEAR* | 764 | 2658 | 272 | 2386 | | 04-88 | 1995 |

INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS(h)

| | | | | |
|-------------------|------------|---------|------------|-------------|
| 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 PWR 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 plants.
 (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

Report Period APR 1988

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(INCLUDES BOTH LICENSED
AND NON-LICENSED UNITS)

REACTOR YEARS OF EXPERIENCE

| | YEARS | 1ST ELEC
GENERATE | UNIT |
|----------------|-------|----------------------|------------------|
| ***** | | | |
| * LICENSED * | 13.75 | 08/01/74 | ARKANSAS 1 |
| * OPERATING * | .71 | 08/17/87 | BEAVER VALLEY 2 |
| * ELECTRICAL * | 14.54 | 10/15/73 | BROWNS FERRY 1 |
| * PRODUCING * | 11.41 | 12/04/76 | BRUNSWICK 1 |
| * UNITS * | 1.23 | 02/06/87 | BYRON 2 |
| ***** | | | |
| | 11.40 | 12/07/76 | CALVERT CLIFFS 2 |
| | 1.02 | 04/24/87 | CLINTON 1 |
| | 13.98 | 05/10/74 | COOPER STATION |
| | 3.47 | 11/11/84 | DIABLO CANYON 1 |
| | 16.78 | 07/22/71 | DRESDEN 3 |
| | 6.93 | 05/25/81 | FARLEY 2 |
| | 14.68 | 08/25/73 | FORT CALHOUN 1 |
| | 3.53 | 10/20/84 | GRAND GULF 1 |
| | 13.47 | 11/11/74 | HATCH 1 |
| | 14.85 | 06/26/73 | INDIAN POINT 2 |
| | 5.66 | 09/04/82 | LASALLE 1 |
| | 15.48 | 11/08/72 | MAINE YANKEE |
| | 17.42 | 11/29/70 | MILLSTONE 1 |
| | 17.16 | 03/05/71 | MONTICELLO |
| | 10.04 | 04/17/78 | NORTH ANNA 1 |
| | 14.40 | 12/05/73 | OCONEE 2 |
| | 16.33 | 12/31/71 | PALISADES |
| | .42 | 11/28/87 | PALO VERDE 3 |
| | 1.37 | 12/19/86 | PERRY 1 |
| | 15.75 | 08/02/72 | POINT BEACH 2 |
| | 16.05 | 04/12/72 | QUAD CITIES 1 |
| | 2.41 | 12/03/85 | RIVER BEND 1 |
| | 6.91 | 06/03/81 | SALEM 2 |
| | 4.60 | 09/25/83 | SAN ONOFRE 3 |
| | .09 | 03/30/88 | SOUTH TEXAS 1 |
| | 5.46 | 11/16/82 | SUMMER 1 |
| | 5.46 | 11/16/82 | SUSQUEHANNA 1 |
| | 12.36 | 12/23/75 | TROJAN |
| | 15.61 | 09/20/72 | VERMONT YANKEE 1 |
| | 3.12 | 03/18/85 | WATERFORD 3 |
| | 14.84 | 06/28/73 | ZION 1 |

TOTAL 1094.26 YRS

| YEARS | 1ST ELEC
GENERATE | UNIT |
|-------|----------------------|-------------------|
| 9.35 | 12/26/78 | ARKANSAS 2 |
| 25.40 | 12/08/62 | BIG ROCK POINT 1 |
| 13.68 | 08/28/74 | BROWNS FERRY 2 |
| 13.01 | 04/29/75 | BRUNSWICK 2 |
| 3.52 | 10/24/84 | CALLAWAY 1 |
| 3.27 | 01/22/85 | CATAWBA 1 |
| 13.22 | 02/10/75 | COOK 1 |
| 11.25 | 01/30/77 | CRYSTAL RIVER 3 |
| 2.53 | 10/20/85 | DIABLO CANYON 2 |
| 13.95 | 05/19/74 | DUANE ARNOLD |
| 1.61 | 09/21/86 | FERMI 2 |
| 11.39 | 12/11/76 | FORT ST VRAIN |
| 20.73 | 08/07/67 | HADDAM NECK |
| 9.61 | 09/22/78 | HATCH 2 |
| 12.01 | 04/27/76 | INDIAN POINT 3 |
| 4.03 | 04/20/84 | LASALLE 2 |
| 6.84 | 06/30/81 | MCGUIRE 1 |
| 12.48 | 11/09/75 | MILLSTONE 2 |
| 18.48 | 11/09/69 | NINE MILE POINT 1 |
| 7.68 | 08/25/80 | NORTH ANNA 2 |
| 13.66 | 09/01/74 | OCONEE 3 |
| 2.89 | 06/10/85 | PALO VERDE 1 |
| 14.20 | 02/18/74 | PEACH BOTTOM 2 |
| 15.78 | 07/19/72 | PILGRIM 1 |
| 14.41 | 12/04/73 | PRAIRIE ISLAND 1 |
| 15.94 | 05/23/72 | QUAD CITIES 2 |
| 17.60 | 09/26/70 | ROBINSON 2 |
| 20.79 | 07/16/67 | SAN ONOFRE 1 |
| 7.78 | 07/22/80 | SEQUOYAH 1 |
| 11.98 | 05/07/76 | ST LUCIE 1 |
| 15.82 | 07/04/72 | SURRY 1 |
| 3.83 | 07/03/84 | SUSQUEHANNA 2 |
| 15.49 | 11/02/72 | TURKEY POINT 3 |
| 1.10 | 03/27/87 | VOGTLE 1 |
| 2.89 | 06/12/85 | WGLF CREEK 1 |
| 14.35 | 12/26/73 | ZION 2 |

| YEARS | 1ST ELEC
GENERATE | UNIT |
|-------|----------------------|----------------------|
| 11.88 | 06/14/76 | BEAVER VALLEY 1 |
| .80 | 07/12/87 | BRAIDWOOD 1 |
| 11.63 | 09/12/76 | BROWNS FERRY 3 |
| 3.17 | 03/01/85 | BYRON 1 |
| 13.33 | 01/03/75 | CALVERT CLIFFS 1 |
| 1.95 | 05/18/86 | CATAWBA 2 |
| 10.11 | 03/22/78 | COOK 2 |
| 10.67 | 08/28/77 | DAVIS-BESSE 1 |
| 18.05 | 04/13/70 | DRESDEN 2 |
| 10.70 | 08/18/77 | FARLEY 1 |
| 13.25 | 02/01/75 | FITZPATRICK |
| 18.41 | 12/02/69 | GINNA |
| 1.28 | 01/19/87 | HARRIS 1 |
| 1.75 | 08/01/86 | HOPE CREEK 1 |
| 14.06 | 04/08/74 | KEWAUNEE |
| 3.05 | 04/13/85 | LIMERICK 1 |
| 4.94 | 05/23/83 | MCGUIRE 2 |
| 2.21 | 02/12/86 | MILLSTONE 3 |
| .73 | 08/08/87 | NINE MILE POINT 2 |
| 14.99 | 05/06/73 | OCONEE 1 |
| 18.60 | 09/23/69 | OYSTER CREEK 1 |
| 1.95 | 05/20/86 | PALO VERDE 2 |
| 13.66 | 09/01/74 | PEACH BOTTOM 3 |
| 17.48 | 11/06/70 | POINT BEACH 1 |
| 13.36 | 12/21/74 | PRAIRIE ISLAND 2 |
| 13.55 | 10/13/74 | RANCHO SECO 1 |
| 11.35 | 12/25/76 | SALEM 1 |
| 5.61 | 09/20/82 | SAN ONOFRE 2 |
| 6.35 | 12/23/81 | SEQUOYAH 2 |
| 4.88 | 06/13/83 | ST LUCIE 2 |
| 15.14 | 03/10/73 | SURRY 2 |
| 13.87 | 06/19/74 | THREE MILE ISLAND 1 |
| 14.86 | 06/21/73 | TURKEY POINT 4 |
| 3.93 | 05/27/84 | WASHINGTON NUCLEAR 2 |
| 27.47 | 11/10/60 | YANKEE-ROWE 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 | PATHFINDER |
| 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 | NTR | 50-073 | R-33 | 10-31-57 | 100.0 |
| | SAN LUIS OBISPO | CALIFORNIA STATE POLYTECHNIC COLLEGE | AGN-201 #100 | 50-394 | R-121 | 05-16-73 | 0.0001 |
| | SAN RAMON | AEROTEST OPERATIONS, INC. | TRIGA (INDUS) | 50-228 | R-98 | 07-02-65 | 250.0 |
| | SANTA BARBARA | UNIVERSITY OF CALIFORNIA, SANTA BARBARA | L-77 | 50-433 | R-124 | 12-03-74 | 0.01 |
| COLORADO | DENVER | U.S. GEOLOGICAL SURVEY DEPARTMENT | TRIGA MARK I | 50-274 | R-113 | 02-24-69 | 1000.0 |
| DELAWARE | NEWARK | UNIVERSITY OF DELAWARE | AGN-201 #113 | 50-098 | R-43 | 07-03-58 | 0.0001 |
| DIST OF COLUMBIA | WASHINGTON | THE CATHOLIC UNIVERSITY OF AMERICA | AGN-201 #101 | 50-077 | R-31 | 11-15-67 | 0.0001 |
| FLORIDA | GAINESVILLE | UNIVERSITY OF FLORIDA | ARGONAUT | 50-083 | R-56 | 05-21-59 | 100.0 |
| GEORGIA | ATLANTA | GEORGIA INSTITUTE OF TECHNOLOGY | HEAVY WATER | 50-160 | R-97 | 12-29-64 | 5000.0 |
| IDAHO | POCATELLO | IDAHO STATE UNIVERSITY | AGN-201 #103 | 50-284 | R-110 | 10-11-67 | 0.0001 |
| ILLINOIS | URBANA | UNIVERSITY OF ILLINOIS | LOPRA | 50-356 | R-117 | 12-27-71 | 10.0 |
| | URBANA | UNIVERSITY OF ILLINOIS | TRIGA | 50-151 | R-115 | 07-22-69 | 1500.0 |
| | ZION | WESTINGHOUSE ELECTRIC CORP. | NTR | 50-087 | R-119 | 01-28-72 | 10.0 |
| INDIANA | LAFAYETTE | PURDUE UNIVERSITY | LOCKHEED | 50-182 | R-87 | 08-16-62 | 10.0 |
| IOWA | AMES | IOWA STATE UNIVERSITY | UTR-10 | 50-116 | R-59 | 10-16-59 | 10.0 |
| KANSAS | LAWRENCE | UNIVERSITY OF KANSAS | LOCKHEED | 50-148 | R-78 | 06-23-61 | 250.0 |
| | MANHATTAN | KANSAS STATE UNIVERSITY | TRIGA | 50-188 | R-88 | 10-16-62 | 250.0 |
| MARYLAND | BETHESDA | ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE | TRIGA | 50-170 | R-84 | 06-26-62 | 1000.0 |
| | COLLEGE PARK | UNIVERSITY OF MARYLAND | TRIGA | 50-166 | R-70 | 10-14-60 | 250.0 |
| MASSACHUSETTS | CAMBRIDGE | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | HWR REFLECTED | 50-020 | R-37 | 06-09-58 | 5000.0 |

 * RESEARCH *
 * REACTORS *

NON-POWER REACTORS IN THE U. S.

| STATE | CITY | LICENSEE | REACTOR TYPE | DOCKET | LICENSE NUMBER | DATE OF ISSUED | AUTHORIZED POWER LEVEL (KW) |
|----------------|--|--|---------------|--------|----------------|----------------|-----------------------------|
| MASSACHUSETTS | LOWELL
WORCESTER | UNIVERSITY OF LOWELL
WORCESTER POLYTECHNIC INSTITUTE | GE | 50-223 | R-125 | 12-24-74 | 1000.0 |
| | | | GE | 50-134 | R-61 | 12-16-59 | 10.0 |
| MICHIGAN | ANN ARBOR
EAST LANSING
MIDLAND | UNIVERSITY OF MICHIGAN
MICHIGAN STATE UNIVERSITY
DOW CHEMICAL COMPANY | POOL | 50-002 | R-28 | 09-13-57 | 2000.0 |
| | | | TRIGA MARK I | 50-294 | R-114 | 03-21-69 | 250.0 |
| | | | TRIGA | 50-264 | R-108 | 07-03-67 | 100.0 |
| MISSOURI | COLUMBIA
ROLLA | UNIVERSITY OF MISSOURI, COLUMBIA
UNIVERSITY OF MISSOURI | TANK | 50-186 | R-103 | 10-11-66 | 10000.0 |
| | | | POOL | 50-123 | R-79 | 11-21-61 | 200.0 |
| NEBRASKA | OMAHA | THE VETERANS ADMINISTRATION HOSPITAL | TRIGA | 50-131 | R-57 | 06-26-59 | 18.0 |
| NEW MEXICO | ALBUQUERQUE | UNIVERSITY OF NEW MEXICO | AGN-201M #112 | 50-252 | R-102 | 09-17-66 | 0.005 |
| NEW YORK | BRONX
BUFFALO
ITHACA
ITHACA
NEW YORK
TUXEDO | MANHATTAN COLLEGE - PYHSICS DEPT.
STATE UNIVERSITY OF NEW YORK
CORNELL UNIVERSITY
CORNELL UNIVERSITY
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
CINTICHEM INC. | TANK | 50-199 | R-94 | 03-24-64 | 0.0001 |
| | | | PULSTAR | 50-057 | R-77 | 03-24-61 | 000.0 |
| | | | 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 |
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| 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 | LICFNSE
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 |
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 * EXPERIMENT/ AND TEST REACTORS *

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| CALIFORNIA | SAN JOSE | GENERAL ELECTRIC COMPANY | GETR | 50-070 | TR-1 | 01-07-59 | 50.0 |
| DIST OF COLUMBIA | WASHINGTON | NATIONAL BUREAU OF STANDARDS | TEST | 50-184 | TR-5 | 06-30-70 | 10.0 |

 * CRITICAL EXPERIMENT FACILITIES *

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| NEW YORK | TROY | RENSSELAER POLYTECHNIC INSTITUTE | | 50-22 | CX-22 | 07-03-64 | 0.0 |
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(2-84)
NRCM 1102,
3201, 3202 | | U.S. NUCLEAR REGULATORY COMMISSION | | 1. REPORT NUMBER Assigned by TDC add Vol. No., if any
NUREG-0020, Volume 12, No. 5 | |
| 2. TITLE AND SUBTITLE
Licensed Operating Reactors
Status Summary Report | | | | | |
| 3. LEAVE BLANK | | | | | |
| 4. DATE REPORT COMPLETED
MONTH: June YEAR: 1988 | | | | | |
| 5. AUTHOR(S)
Ina Schwartz | | | | | |
| 6. DATE REPORT ISSUED
MONTH: June YEAR: 1988 | | | | | |
| 7. PERFORMING ORGANIZATION NAME AND MAILING ADDRESS (Include Zip Code)
Division of Computer and Telecommunications Services/IRM
Office of Administration and Resources Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555 | | | | | |
| 8. PROJECT/TASK/WORK UNIT NUMBER | | | | | |
| 9. PIN OR GRANT NUMBER | | | | | |
| 10. SPONSORING ORGANIZATION NAME AND MAILING ADDRESS (Include Zip Code)
Division of Computer and Telecommunication Services/IRM
Office of Administration and Resources Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555 | | | | | |
| 11a. TYPE OF REPORT | | | | | |
| b. PERIOD COVERED (Inclusive dates)
April 1988 | | | | | |
| 12. SUPPLEMENTARY NOTES
Status Summary Report | | | | | |
| 13. ABSTRACT (200 words or less)
<p>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.</p> | | | | | |
| 14. DOCUMENT ANALYSIS -- KEYWORDS-DESCRIPTORS
Licensed Operating Reactors
Commercial Operating Units | | | | | |
| 15. AVAILABILITY STATEMENT | | | | | |
| 16. SECURITY CLASSIFICATION
(This page)
(This report) | | | | | |
| 17. NUMBER OF PAGES | | | | | |
| 18. PRICE | | | | | |

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