NUREG-0020
Vol. 12, No. 4
April 1988

LICENSED OPERATING REACTORS

STATUS SUMMARY REPORT

DATA AS OF 03-31-88

UNITED STATES NUCLEAR REGULATORY COMMISSION

Available from

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Manuscript Completed: May 1988
Date Published: May 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.

TABLE OF CONTENTS

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 minth, 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 calender 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.)

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.

INDEX TO OPERATING POWER REACTORS

SECTION 1

CURRENT DATA SUMMARIES

MONTHLY HIGHLIGHTS

LICENSED POWER REACTORS			
	105	IN COMMERCIAL OPERATION	91,418 CAPACITY MWe (Net) --Based upon maximum dependable capacity; design elec. rating used if MDC not determined
(a)	2	IN POWER ASCENSION	2,370
(b)	107	LICENSED TO OPERATE	93,788 TOTAL
(c)	2	LICENSED FOR FUEL LOADING AND LOW POWER TESTING	

(a)

	MDC NET
BRAIDWOOD 1	1120
SOUTH TEXAS 1	1250

(b) Excludes these plants licensed for operation which are shut down indefinitely or permanently

	DER
1. DRESDEN 1	200
2. HUMBOLDT BAY	65
3. TMI 2	906
4. LACROSSE	50

(c)

	DATE	DER
BRAIDWOOD 2	12/18/87	1120
SHOREHAM	07/03/85	820

POWER GENERATION

	REPORT MONTH	PREVIOUS MONTH	YEAR-TO-DATE
1. GROSS ELECTRICAL (MWHE)	46,072,264	44,136,950	137,182,288
2. NET ELECTRICAL (MWHE)	43,781,511	41,968,643	130,460,367
3. AVG. UNIT SERVICE FACTOR (%)	69.4	71.1	71.2
4. AVG. UNIT AVAILABILITY FACTOR (%)	69.4	71.1	71.2
5. AVG. UNIT CAPACITY FACTOR (MDC) (%)	65.5	67.2	67.4
6. AVG. UNIT CAPACITY FACTOR (DER) (%)	63.9	65.7	65.9
7. FORCED OUTAGE RATE (%)	10.3	13.8	12.3

ACTUAL VS. POTENTIAL ENERGY PRODUCTION

		% OF POTENTIAL PRODUCTION
1. ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD	43,781,511 NET	64.6
2. ENERGY NOT PRODUCED DUE TO SCHEDULED OUTAGES (NET)	13,991,108 MWHe	20.7
3. ENERGY NOT PRODUCED DUE TO FORCED OUTAGES (NET)	7,581,049 MWHe	11.2
4. ENERGY NOT PRODUCED FOR OTHER REASONS (NET)	2,385,924 MWHe	3.5
POTENTIAL ENERGY PRODUCTION IN THIS PERIOD BY UNITS IN COMMERCIAL OPERATION (Using Maximum Dependable Capacity Net)	67,739,592 MWHe	100.0% TOTAL
5. ENERGY NOT PRODUCED DUE TO NRC-REQUIRED OUTAGES	773,784 MWHe	
6. ENERGY NOT PRODUCED DUE TO NRC RESTRICTED POWER LEVELS	..... MWHe	3 UNIT(S) WITH NRC RESTRICTION

OUTAGE DATA

	NUMBER	HOURS	PERCENT OF CLOCK TIME	MWHE LOST PRODUCTION
1. FORCED OUTAGES DURING REPORT PERIOD	42	7,610.1	9.8	7,581,049
2. SCHEDULED OUTAGES DURING REPORT PERIOD	43	16,186.3	20.8	13,991,108
TOTAL	85	23,796.4	30.6	21,572,157

MWHE LOST PRODUCTION = Down time X maximum dependable capacity net

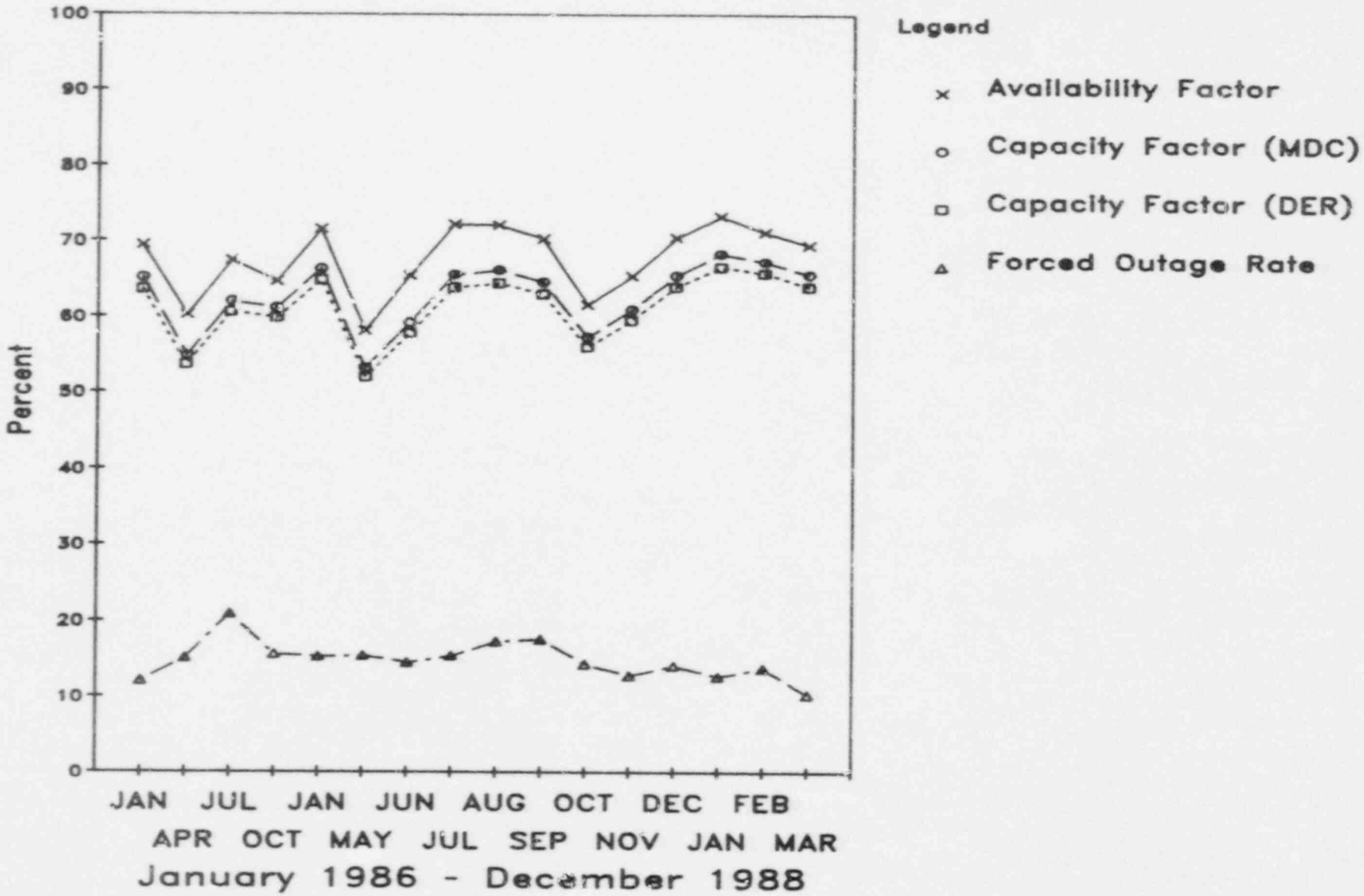
REASONS FOR SHUTDOWNS		NUMBER	HOURS LOST
	A - Equipment Failure	29	2,417.9
	B - Maintenance or Test	20	3,348.0
	C - Refueling	22	12,671.2
	D - Regulatory Restriction	2	943.7
	E - Operator Training & License Examination	1	41.0
	F - Administrative	5	3,720.0
	G - Operational Error	2	249.9
	H - Other	4	404.7
	TOTAL	85	23,796.4

DERATED UNITS	MDC (MWe Net)	POWER LIMIT (MWe Net)	TYPE
BYRON 1	1120	1097	Self-imposed
BYRON 2	1120	1055	Self-imposed
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

SHUTDOWNS GREATER THAN 72 HRS EACH	UNIT	REASON	UNIT	REASON	UNIT	REASON	UNIT	REASON
	ARKANSAS 2	C	BROWNS FERRY 1	F	BROWNS FERRY 2	F	BROWNS FERRY 3	F
	BRUNSWICK 2	C	CALVERT CLIFFS 2	B	CATAWBA 1	H	CATAWBA 2	A,H
	CLINTON 1	B	COOPER STATION	C	DAVIS-BESSE 1	C	DIABLO CANYON 1	C
	DRESDEN 3	C	FARLEY 1	C	FERMI 2	B	GINNA	A,C
	HADDAM NECK	C	HARRIS 1	A	HATCH 2	C	HOPE CREEK 1	C
	KEWAUNEE	C	LASALLE 1	C	LASALLE 2	A	NINE MILE POINT 1	C
	NINE MILE POINT 2	A,G	NORTH ANNA 1	B	OCONEE 2	C	PALO VERDE 1	A
	PALO VERDE 2	C	PEACH BOTTOM 2	C	PEACH BOTTOM 3	C	PILGRIM 1	C
	PRAIRIE ISLAND 1	B	RANCHO SECO 1	D	ROBINSON 2	D	SAN ONOFRE 1	B
	SAN ONOFRE 2	B	SEQUOYAH 1	F	SEQUOYAH 2	F	SURRY 2	A
	SUSQUEHANNA 1	B,G	SUSQUEHANNA 2	C	TURKEY POINT 3	A,A	WASHINGTON NUCLEAR*	A,A
	ZION 1	C						

Unit Availability, Capacity, Forced Outage

Avg Unit Percentage as of March 1988



Report Period MAR 1988

AVERAGE DAILY POWER LEVEL FOR ALL COMMERCIALLY 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.

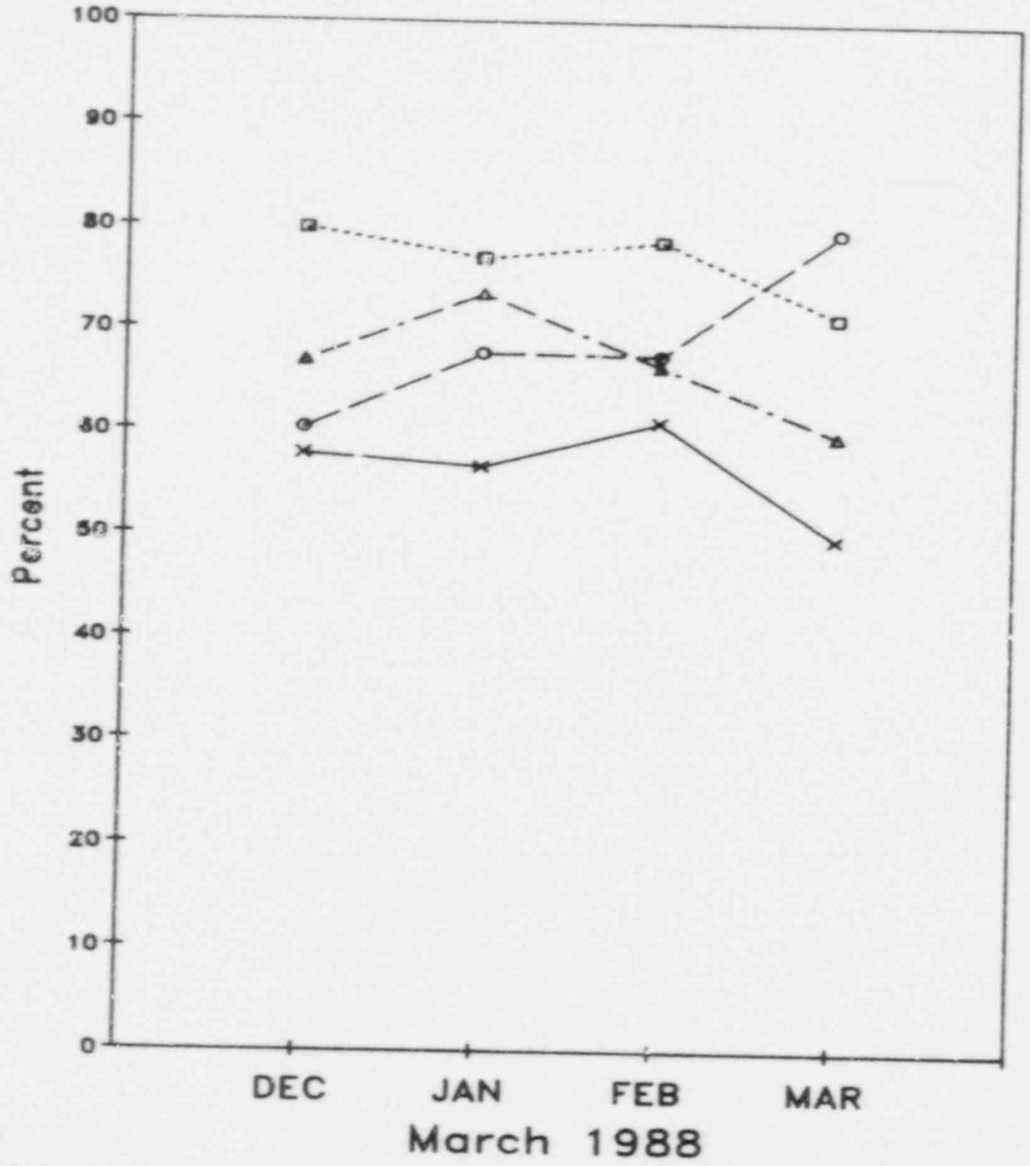
The scale on the left vertical axis runs in 1,000 MWe increments from 0 to 55,000 MWe (Net). The right vertical axis shows the percentage in 10% increments, up to 100% of the "SUM OF MDC".

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

3/31/88



Legend

- × General Electric
- ○ Westinghouse
- □ Combustion Engineering
- △ Babcock & Wilcox

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.

Report Period MAR 1988

AVERAGE CAPACITY FACTORS BY VENDORS

GENERAL ELECTRIC	CFMDC		CFMDC		CFMDC		CFMDC	
	0.0	BROWNS FERRY 1	0.0	BROWNS FERRY 2	0.0	BROWNS FERRY 3	97.7	BRUNSWICK 1
	0.0	BRUNSWICK 2	51.3	CLINTON 1	10.7	COOPER STATION	88.5	DRESDEN 2
	78.0	DRESDEN 3	95.9	DUANE ARNOLD	0.0	FERMI 2	99.4	FITZPATRICK
	98.3	GRAND GULF 1	99.2	HATCH 1	19.9	HATCH 2	0.0	HOPE CREEK 1
	35.1	LASALLE 1	58.4	LASALLE 2	97.1	LIMERICK 1	93.5	MILLSTONE 1
	101.6	MONTICELLO	0.0	NINE MILE POINT 1	36.8	NINE MILE POINT 2	102.5	OYSTER CREEK 1
	0.0	PEACH BOTTOM 2	0.0	PEACH BOTTOM 3	92.6	PERRY 1	0.0	PILGRIM 1
	98.0	QUAD CITIES 1	84.2	QUAD CITIES 2	94.9	RIVER BEND 1	53.1	SUSQUEHANNA 1
	7.2	SUSQUEHANNA 2	100.6	VERMONT YANKEE 1	60.3	WASHINGTON NUCLEAR 2		

BABCOCK & WILCOX	CFMDC		CFMDC		CFMDC		CFMDC	
	80.2	ARKANSAS 1	84.5	CRYSTAL RIVER 3	17.5	DAVIS-BESSE 1	100.3	OCONEE 1
	0.0	OCONEE 2	100.6	OCONEE 3	0.0	RANCHO SECO 1	106.1	THREE MILE ISLAND 1

COMBUSTION ENGINEERING	CFMDC		CFMDC		CFMDC		CFMDC	
	0.0	ARKANSAS 2	101.6	CALVERT CLIFFS 1	0.0	CALVERT CLIFFS 2	69.3	FORT CALHOUN 1
	98.6	MAINE YANKEE	100.6	MILLSTONE 2	106.5	PALISADES	58.4	PALO VERDE 1
	0.0	PALO VERDE 2	103.6	PALO VERDE 3	52.6	SAN ONOFRE 2	102.3	SAN ONOFRE 3
	97.3	ST LUCIE 1	102.8	ST LUCIE 2	93.2	WATERFORD 3		

WESTINGHOUSE	CFMDC		CFMDC		CFMDC		CFMDC	
	85.4	BEAVER VALLEY 1	98.0	BEAVER VALLEY 2	94.3	BYRON 1	69.3	BYRON 2
	98.9	CALLAWAY 1	85.2	CATAWBA 1	30.4	CATAWBA 2	82.8	COOK 1
	81.1	COOK 2	10.7	DIABLO CANYON 1	88.5	DIABLO CANYON 2	80.4	FARLEY 1
	102.2	FARLEY 2	19.1	GINNA	3.4	HADDAM NECK	70.2	HARRIS 1
	102.4	INDIAN POINT 2	98.9	INDIAN POINT 3	4.9	KEWAUNEE	94.7	MCGUIRE 1
	101.6	MCGUIRE 2	99.6	MILLSTONE 3	77.1	NORTH ANNA 1	100.3	NORTH ANNA 2
	102.7	POINT BEACH 1	102.6	POINT BEACH 2	87.5	PRAIRIE ISLAND 1	103.2	PRAIRIE ISLAND 2
	40.3	ROBINSON 2	94.8	SALEM 1	98.7	SALEM 2	0.0	SAN ONOFRE 1
	0.0	SEQUOYAH 1	0.0	SEQUOYAH 2	100.6	SUMMER 1	84.4	SURRY 1
	84.5	SURRY 2	100.9	TROJAN	54.8	TURKEY POINT 3	98.8	TURKEY POINT 4
	97.1	VOGTLE 1	102.3	WOLF CREEK 1	83.1	YANKEE-ROWE 1	0.0	ZION 1
	90.5	ZION 2						

OTHER INFO

Units excluded are:
- BIG ROCK POINT
- DRESDEN 1
- FORT ST VRAIN
- HUMBOLDT BAY
- LACROSSE
- THREE MILE ISLAND 2

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

$$\frac{\text{Net Electrical Energy Produced by Vendor}}{\text{Potential Electrical Production by Vendor in this Month}} \times 100\%$$

	GE BWRs	West PWRs	Comb PWRs	B&W PWRs	ALL PWRs
NET ELECTRICAL PRODUCTION	11,252,285	21,962,215	7,388,624	2,975,139	32,325,978
MDC NET	30,858	39,508	13,949	6,704	60,161
CFMDC	49.6	74.7	71.2	59.6	72.2

MEMORANDA

THE FOLLOWING UNITS USE WEIGHTED AVERAGES TO CALCULATE CAPACITY FACTORS:

ITEM 22

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

ITEM 22 & 23

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

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

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

ITEMS 20 THROUGH 24

COOK 1 & 2
RIVER BEND
SAN ONOFRE 1

ITEM 24 ONLY

BIG ROCK POINT 1

ERRATA

CORRECTIONS TO PREVIOUSLY REPORTED DATA

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

REVISED MONTHLY HIGHLIGHTS

N O N E

N O N E

N O N E

N O N E

SECTION 2

OPERATING POWER REACTORS

1. Docket: 50-313 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	116,443.0
13. Hours Reactor Critical	744.0	2,152.2	81,207.5
14. Rx Reserve Shtdwn Hrs	.0	.0	5,044.0
15. Hrs Generator On-Line	744.0	2,146.6	79,575.5
16. Unit Reserve Shtdwn Hrs	.0	.0	817.5
17. Gross Therm Ener (MWH)	1,534,594	4,379,257	183,214,264
18. Gross Elec Ener (MWH)	524,875	1,495,850	60,762,980
19. Net Elec Ener (MWH)	498,569	1,418,599	57,807,976
20. Unit Service Factor	100.0	98.3	68.3
21. Unit Avail Factor	100.0	98.3	69.0
22. Unit Cap Factor (MDC Net)	80.2	77.7	59.4
23. Unit Cap Factor (DER Net)	78.8	76.4	58.4
24. Unit Forced Outage Rate	.0	1.7	13.5
25. Forced Outage Hours	.0	37.4	12,435.0

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

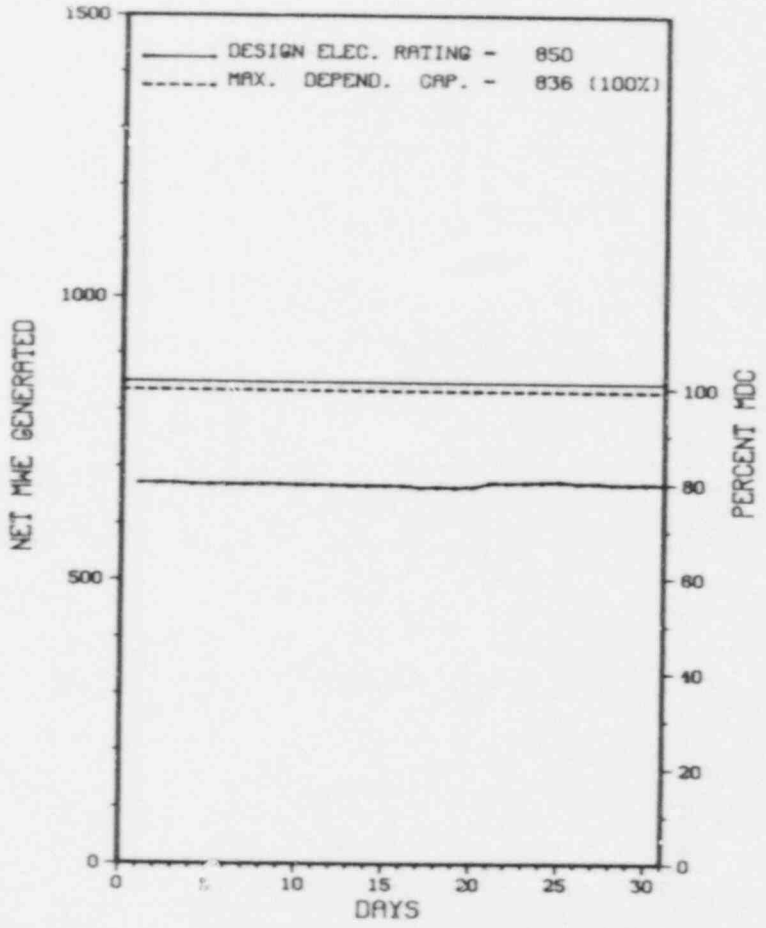
REFUELING - SEPTEMBER 2, 1988, - 72 DAY DURATION

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

****
* ARKANSAS 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ARKANSAS 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* ARKANSAS 1 *
****

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

****
* SUMMARY *
****

ARKANSAS I OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* ARKANSAS 1 *
****

FACILITY DATA

Report Period MAR 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.....4V

IE RESIDENT INSPECTOR.....B. JOHNSON

LICENSING PROJ MANAGER.....G. DICK
DOCKET NUMBER.....50-313

LICENSE & DATE ISSUANCE....DPR-51, MAY 21, 1974

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED DEC 1, 87 - JAN 19, 88 (87-39) ROUTINE, UNANNOUNCED INSPECTION INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, NRC BULLETIN FOLLOWUP, FOLLOWUP ON PREVIOUSLY INDENTIFIED ITEMS, AND FOLLOWUP ON LICENSE EVENT REPORTS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JAN 20 - FEB 21, 88 (88-01) ROUTINE, UNANNOUNCED INSPECTION INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, FOLLOWUP ON A PREVIOUSLY IDENTIFIED ITEM,, FOLLOWUP ON TMI ACTION ITEM II.K.3.5, AND FOLLOWUP ON GENERIC LETTERS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

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

****
* ARKANSAS 1 *
****

OTHER ITEMS

ONE REACTOR COOLANT PUMP OUT OF SERVICE

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: FEB. 21, 1988

INSPECTION REPORT NO: 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: 50-368 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2815

5. Nameplate Rating (Gross MWe): 943

6. Design Electrical Rating (Net MWe): 912

7. Maximum Dependable Capacity (Gross MWe): 897

8. Maximum Dependable Capacity (Net MWe): 858

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	70,272.0
13. Hours Reactor Critical	.0	1,027.6	50,795.0
14. Rx Reserve Shtdwn Hrs	.0	.0	1,430.1
15. Hrs Generator On-Line	.0	1,027.5	49,420.9
16. Unit Reserve Shtdwn Hrs	.0	.0	75.0
17. Gross Therm Ener (MWH)	0	2,816,266	127,673,823
18. Gross Elec Ener (MWH)	0	939,120	41,938,531
19. Net Elec Ener (MWH)	-1,918	893,875	39,913,372
20. Unit Service Factor	.0	47.0	70.3
21. Unit Avail Factor	.0	47.0	70.4
22. Unit Cap Factor (MDC Net)	.0	47.7	66.2
23. Unit Cap Factor (DER Net)	.0	44.9	62.3
24. Unit Forced Outage Rate	.0	.0	14.4
25. Forced Outage Hours	.0	.0	8,336.0

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

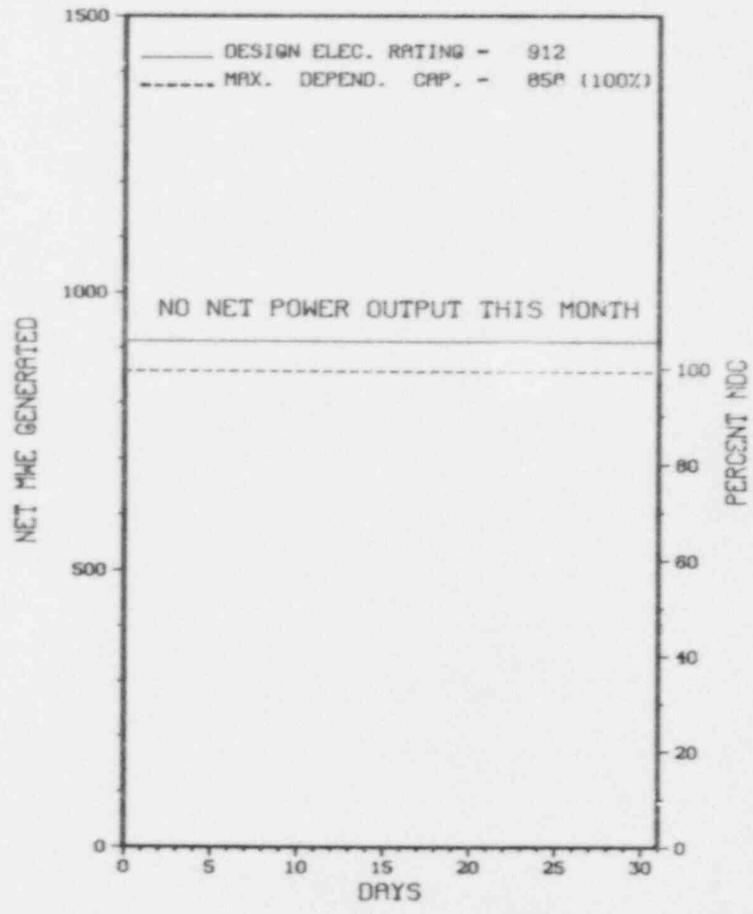
NONE

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

****
* ARKANSAS 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ARKANSAS 2



MARCH 1988

Report Period MAR 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	744.0	C	4		ZZ	ZZZZZZ	UNIT SHUTDOWN FOR REFUELING AND MAINTENANCE.

****
* SUMMARY *
****

ARKANSAS 2 REMAINED SHUTDOWN IN MARCH FOR 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED DEC 1, 1987 - JAN 19, 1988 (87-39) ROUTINE, UNANNOUNCED INSPECTION OF AREAS INCLUDING OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, AND SURVEILLANCE, NRC BULLETIN FOLLOWUP, FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS, AND FOLLOWUP ON LERS. WITHIN THE AREAS INSPECTED, ONE DEVIATION (FAILURE TO PROVIDE) SUPPLEMENTS TO LERS WAS IDENTIFIED.

INSPECTION CONDUCTED JAN 20 - FEB 21, 1988 (88-01) ROUTINE, UNANNOUNCED INSPECTION OF OPERATIONAL SAFETY VERIFICATION. MAINTENANCE, SURVEILLANCE, FOLLOWUP ON TMI ACTION ITEM II.K.3.5, AND FOLLOWUP ON GENERIC LETTERS. WITHIN THE AREAS INSPECTED, ONE APPARENT VIOLATION WAS IDENTIFIED (EXCESSIVE COMBUSTIBLES IN DIESEL GENERATOR ROOM).

ENFORCEMENT SUMMARY

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

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

REFUELING

LAST IE SITE INSPECTION DATE: FEB 21, 1988

INSPECTION REPORT NO: 50-368/88-01

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

1. Docket: 50-334 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	104,472.0
13. Hours Reactor Critical	744.0	744.0	59,932.1
14. Rx Reserve Shtdwn Hrs	.0	.0	4,482.7
15. Hrs Generator On-Line	710.0	710.0	58,364.3
16. Unit Reserve Shtdwn Hrs	.0	.0	2.2
17. Gross Therm Ener (MWH)	1,677,626	1,677,626	138,594,936
18. Gross Elec Ener (MWH)	547,359	547,359	44,413,*;9
19. Net Elec Ener (MWH)	514,577	503,657	41,439,260
20. Unit Service Factor	95.4	32.5	58.2
21. Unit Avail Factor	95.4	32.5	58.2
22. Unit Cap Factor (MDC Net)	85.4	28.5	52.2
23. Unit Cap Factor (DER Net)	82.8	27.6	50.6
24. Unit Forced Outage Rate	1.1	1.1	19.5
25. Forced Outage Hours	8.1	8.1	19,049.5

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

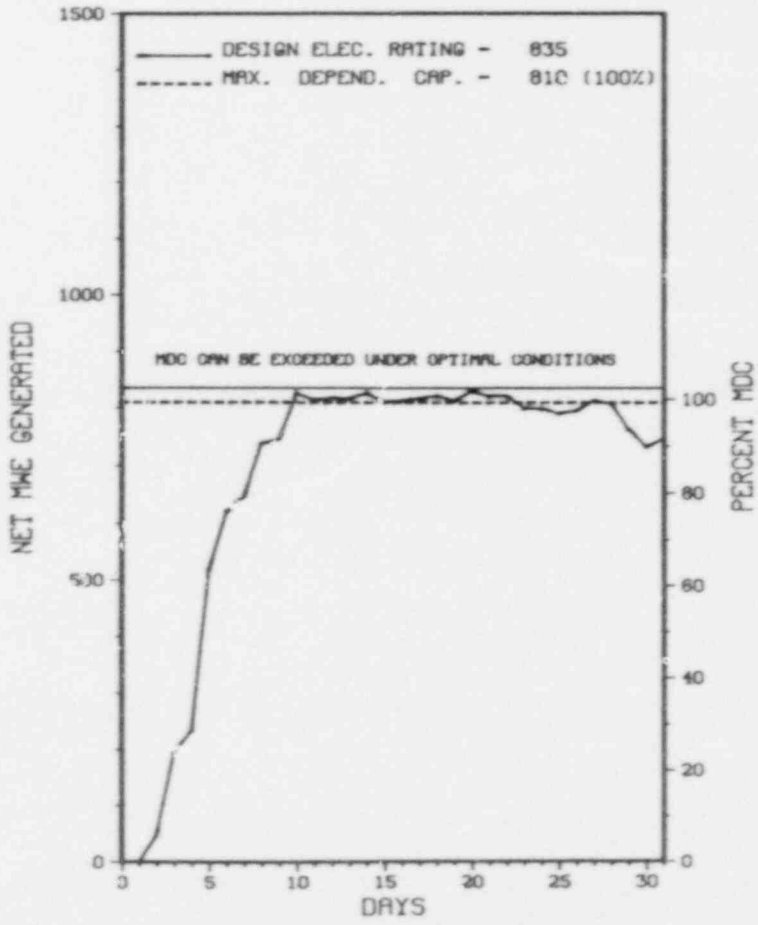
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BEAVER VALLEY 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

BEAVER VALLEY 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3	12/11/87	S	25.9	C	4		ZZ	ZZZZZZ	THE UNIT WAS SHUTDOWN FOR THE UNIT'S SIXTH REFUELING OUTAGE.
4	03/02/88	F	3.1	B	1		CH	VALVEX	THE UNIT WAS REMOVED FROM SERVICE TO STABILIZE CONTROL OF THE STEAM GENERATOR FEEDWATER SYSTEM.
5	03/02/88	F	5.0	B	1		HA	TURBIN	TURBINE WAS TAKEN OFF LINE FOR TURBINE OVERSPEED TRIP TESTING.
6	03/02/88	S	0.0	B	5		ZZ	ZZZZZZ	STARTUP AND PHYSICS TESTING FOLLOWING COMPLETION OF SIXTH REFUELING.
7	03/29/88	F	0.0	B	5		HC	HTEXCH	THE UNIT'S OUTPUT WAS REDUCED TO 80% TO PERMIT CLEANING THE CONDENSER TUBES IN THE 'A' WATERBOX OF THE UNIT'S MAIN CONDENSER.
8	03/30/88	F	0.0	B	5		HC	HTEXCH	THE UNIT'S OUTPUT WAS REDUCED TO 80% TO PERMIT CLEANING THE CONDENSER TUBES IN THE 'D' WATERBOX OF THE UNIT'S MAIN CONDENSER.
9	03/31/88	F	0.0	B	5		HC	HTEXCH	THE UNIT'S OUTPUT WAS REDUCED TO 80% TO PERMIT CLEANING THE CONDENSER TUBES IN THE 'B' WATERBOX OF THE UNIT'S MAIN CONDENSER.

SUMMARY

BEAVER VALLEY I COMPLETED SCHEDULED REFUELING OUTAGE ON MARCH 2, 1988, AND SUBSEQUENTLY INCURRED 2 OUTAGES AND 4 POWER REDUCTIONS DURING THE REMAINDER OF THE MONTH.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA

COUNTY.....BEAVER

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

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 10, 1976

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

DATE COMMERCIAL OPERATE....OCTOBER 1, 1976

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER....OHIO RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DUQUESNE LIGHT

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

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

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....J. BEALL

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

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

PUBLIC DOCUMENT ROOM.....B.F. JONES MEMORIAL LIBRARY
633 FRANKLIN AVENUE
ALIQUIPPA, PA 15001

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.

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

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

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

1. Docket: 50-412 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: P. A. SMITH (412) 643-1825
4. Licensed Thermal Power (MWt): 2652
5. Nameplate Rating (Gross MWe): 923
6. Design Electrical Rating (Net MWe): 836
7. Maximum Dependable Capacity (Gross MWe): 885
8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	3,255.0
13. Hours Reactor Critical	744.0	1,784.5	2,750.0
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,771.7	2,721.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,961,547	4,557,370	6,943,007
18. Gross Elec Ener (MWH)	639,900	1,483,300	2,265,500
19. Net Elec Ener (MWH)	607,197	1,399,393	2,137,497
20. Unit Service Factor	100.0	81.1	58.2
21. Unit Avail Factor	100.0	81.1	58.2
22. Unit Cap Factor (MDC Net)	98.0	76.9	52.2
23. Unit Cap Factor (DER Net)	97.6	76.6	50.6
24. Unit Forced Outage Rate	.0	3.6	19.5
25. Forced Outage Hours	.0	65.3	186.5

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

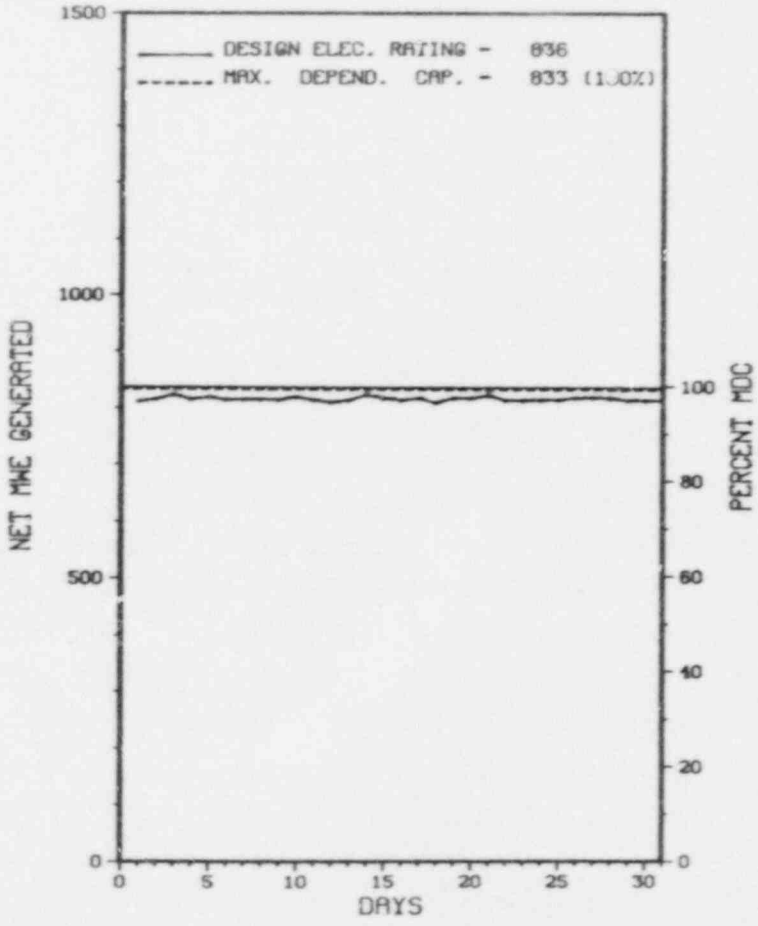
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BEAVER VALLEY 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

BEAVER VALLEY 2

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

SUMMARY

BEAVER VALLEY 2 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

Report Period MAR 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

PUBLIC DOCUMENT ROOM.....B F. JONES MEMORIAL LIBRARY
633 FRANKLIN AVENUE
ALIQUIPPA, PA 15001

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

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: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 240

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

6. Design Electrical Rating (Net MWe): 72

7. Maximum Dependable Capacity (Gross MWe): 73

8. Maximum Dependable Capacity (Net MWe): 69

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	219,235.0
13. Hours Reactor Critical	744.0	1,997.0	157,830.7
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,953.8	155,088.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	138,934	368,946	29,302,469
18. Gross Elec Ener (MWH)	45,562	120,121	9,291,955
19. Net Elec Ener (MWH)	43,064	113,525	8,786,767
20. Unit Service Factor	100.0	89.5	70.7
21. Unit Avail Factor	100.0	89.5	70.7
22. Unit Cap Factor (MDC Net)	83.9	75.3	59.5*
23. Unit Cap Factor (DER Net)	80.4	72.2	55.7
24. Unit Forced Outage Rate	.0	7.7	13.5
25. Forced Outage Hours	.0	163.3	12,270.0

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

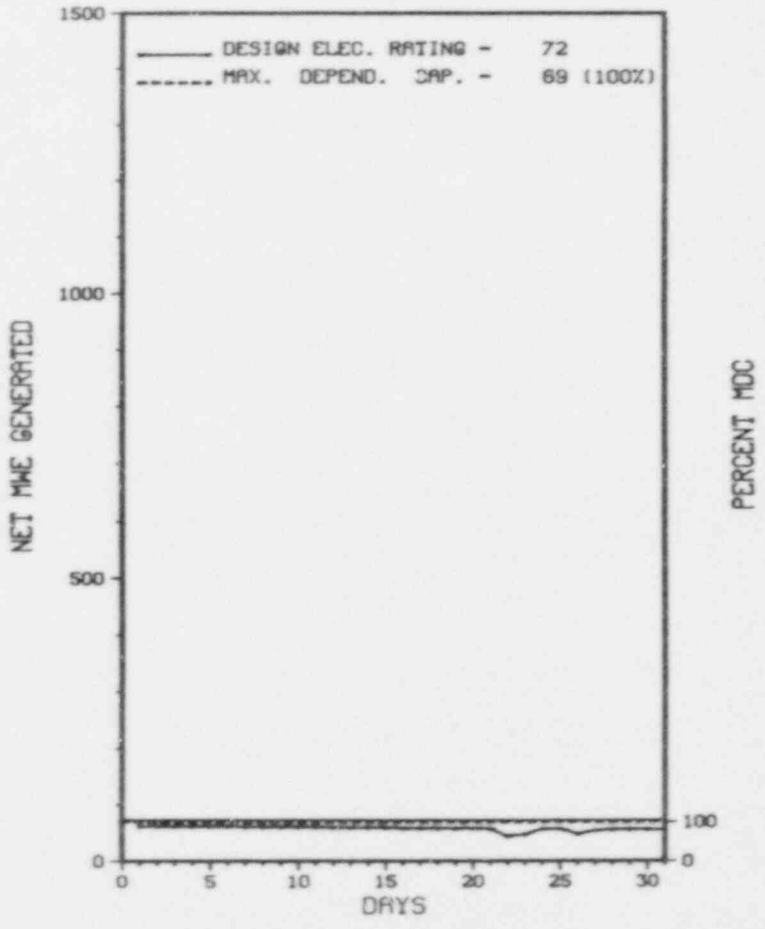
REFUELING - APRIL 8, 1988 - 60 DAY DURATION.

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BIG ROCK POINT 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988 U N I T S H U T D O W N S / R E D U C T I O N S

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

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-07	03/22/88	F	0.0	A	5				POWER WAS REDUCED TO ALLOW REPAIRS TO THE HP EXTRACTION LINE STEAM LEAK. TEMPORARY REPAIRS WERE MADE AT THIS TIME WITH PERMANENT REPAIRS BEING MADE DURING THE UPCOMING REFUELING OUTAGE. THE UNIT WAS RETURNED TO ITS ORIGINAL POWER LEVEL AFTER THE TEMPORARY REPAIRS WERE COMPLETED.
88-08	03/26/88	F	0.0	A	5				POWER WAS REDUCED TO ALLOW REPAIRS TO THE HP EXTRACTION LINE AFTER INVESTIGATION INDICATED THAT PIN HOLE STEAM LEAK RESULTING FROM POROSITY, EXISTED IN THE WELD REPAIRS MADE DURING EVENT #88-07 ABOVE. THE UNIT WAS RETURNED TO NORMAL POWER LEVELS AFTER REPAIRS WERE MADE.

****
* SUMMARY *
****

BIG ROCK POINT INCURRED 2 POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON DECEMBER 14, 1987 THROUGH FEBRUARY 16, 1988 (88002): ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY THE SENIOR RESIDENT INSPECTOR OF OPERATIONAL SAFETY, MAINTENANCE OPERATION, SURVEILLANCE OPERATION, REGIONAL REQUESTS, REACTOR TRIPS, IE BULLETINS, LICENSEE EVENT REPORT FOLLOW-UP, AND TRAINING. OF THE EIGHT AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. NO SIGNIFICANT SAFETY ITEMS 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:

OPERATING ROUTINELY.

LAST IE SITE INSPECTION DATE: 02/16/88

INSPECTION REPORT NO: 88002

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-03	020788	030888	REACTOR SHUTDOWN - HIGH PRIMARY SYSTEM UNIDENTIFIED LEAK RATE

1. Docket: 50-456 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: B. M. PEACOCK (815) 458-2801 EXT. 2480
4. Licensed Thermal Power (MWt): 3411
5. Nameplate Rating (Gross MWe):
6. Design Electrical Rating (Net MWe): 1120
7. Maximum Dependable Capacity (Gross MWe): 1175
8. Maximum Dependable Capacity (Net MWe): 1120
9. If Changes Occur Above Since Last Report, Give Reasons:

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

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	6,337.0
13. Hours Reactor Critical	71.4	85.9	3,145.6
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	58.1	72.6	2,683.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	49,033	96,316	5,111,988
18. Gross Elec Ener (MWH)	13,498	30,554	1,635,158
19. Net Elec Ener (MWH)	0	16,111	1,472,762
20. Unit Service Factor		NOT IN	
21. Unit Avail Factor		COMMERCIAL	
22. Unit Cap Factor (MDC Net)		OPERATION	
23. Unit Cap Factor (DER Net)			
24. Unit Forced Outage Rate			
25. Forced Outage Hours	205.0	205.0	1,077.2

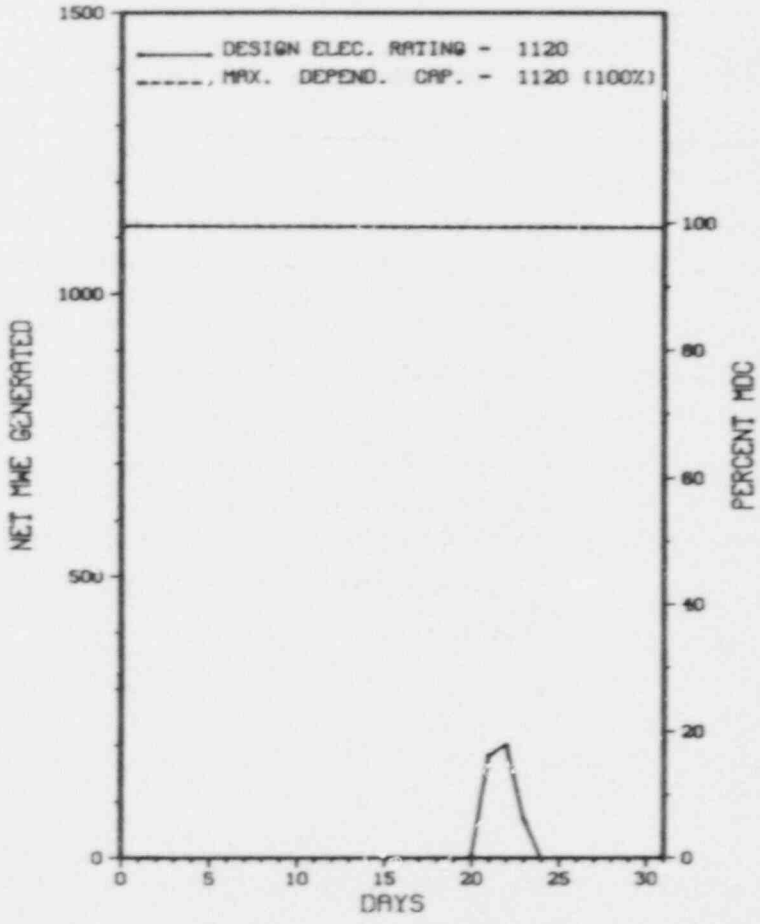
26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 04/15/88

****
* BRAIDWOOD 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRAIDWOOD 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

BRAIDWOOD 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
01	03/01/88	S	480.9	H	4				CONTINUANCE OF 6 WEEK SURVEILLANCE OUTAGE.
02	03/23/88	F	205.0	H	1				UNIT SHUT DOWN DUE TO ENVIRONMENTAL QUALIFICATION CONCERNS WITH LIMITORQUE VALVE OPERATOR GREASE. GREASE IS BEING CHANGED AS REQUIRED.

SUMMARY

BRAIDWOOD I COMPLETED 6 WEEK SCHEDULED SURVEILLANCE OUTAGE.
SUBSEQUENTLY INCURRED 1 POWER OUTAGE 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* BRAIDWOOD 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS

COUNTY.....WILL

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

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 29, 1987

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

DATE COMMERCIAL OPERATE....**********

CONDENSER COOLING METHOD...CC ART

CONDENSER COOLING WATER....KANKAKEE RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....COMMONWEALTH EDISON

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

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

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....COMMONWEALTH EDISON

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....L. MCGREGOR

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

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

PUBLIC DOCUMENT ROOM.....HEAD LIBRARIAN
GOVERNMENT DOCUMENTS COLLECTION
WILMINGTON PUBLIC LIBRARY
201 SOUTH KANKAKEE STREET
WILMINGTON, ILLINOIS, 60481

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION DURING THE PERIOD JANUARY 13 THROUGH FEBRUARY 16, 1988 (88004; 88005). ROUTINE, UNANNOUNCED INSPECTION OF THE OPERATIONAL RADIATION PROTECTION PROGRAM INCLUDING: LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS (IP 92701); ORGANIZATION AND MANAGEMENT CONTROLS (IP 83722); AUDITS AND APPRAISALS (IP 83722) TRAINING AND QUALIFICATIONS (IP 83723); EXTERNAL EXPOSURE CONTROL AND PERSONAL DOSIMETRY (IP 83724); INTERNAL EXPOSURE CONTROL AND ASSESSMENT (IP 83725); CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION (IP 83726); ALARA ACTIVITIES (IP 83728); FACILITIES AND EQUIPMENT (IP 83727); UNIT 1 STARTUP SURVEY DATA (IP 83521) AND STATUS OF CERTAIN TMI ACTION PLAN ITEMS (IP 25401). THE LICENSEE'S RADIATION PROTECTION PROGRAM CONTINUES TO BE EFFECTIVE IN PROTECTING THE HEALTH AND SAFETY OF OCCUPATIONAL WORKERS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON FEBRUARY 16-25, 1988 (88006; 88008). ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE'S IMPLEMENTATION OF GENERIC LETTER 83-28 IN THE AREAS OF EQUIPMENT CLASSIFICATION, VENDOR INTERFACE, POST MAINTENANCE TESTING, AND REACTOR TRIP SYSTEM RELIABILITY. CLOSED TI 2515/64R1 AND TI 2515/91. (25564) (25591) 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:

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

LAST IE SITE INSPECTION DATE: 03/28/88

INSPECTION REPORT NO: 88012

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-04	031188	040488	MANUAL REACTOR TRIP DUE TO DIGITAL ROD POSITION INDICATION SYSTEM COMPONENT FAILURE
88-06	031388	040688	PARTIAL LOSS OF AUX BUILDING NON ACCESSIBLE FILTER PLENUM POSITION INDICATION DUE TO AN ADMINISTRATIVE AND MANAGEMENT DEFICIENCY
88-07	021587	031388	RESIDUAL HEAT REMOVAL PUMPS DECLARED INOPERABLE DUE TO IMPROPER SURVEILLANCE EXECUTION

1. Docket: 50-259 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3293

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

6. Design Electrical Rating (Net MWe): 1065

7. Maximum Dependable Capacity (Gross MWe): 1098

8. Maximum Dependable Capacity (Net MWe): 1065

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	119,810.0
13. Hours Reactor Critical	.0	.0	59,520.9
14. Rx Reserve Shtdwn Hrs	.0	.0	6,996.8
15. Hrs Generator On-Line	.0	.0	58,276.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	167,963,338
18. Gross Elec Ener (MWH)	0	0	55,398,130
19. Net Elec Ener (MWH)	-1,978	-4,809	53,663,108
20. Unit Service Factor	.0	.0	48.6
21. Unit Avail Factor	.0	.0	48.6
22. Unit Cap Factor (MDC Net)	.0	.0	42.1
23. Unit Cap Factor (DER Net)	.0	.0	42.1
24. Unit Forced Outage Rate	100.0	100.0	42.4
25. Forced Outage Hours	744.0	2,184.0	42,882.1

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

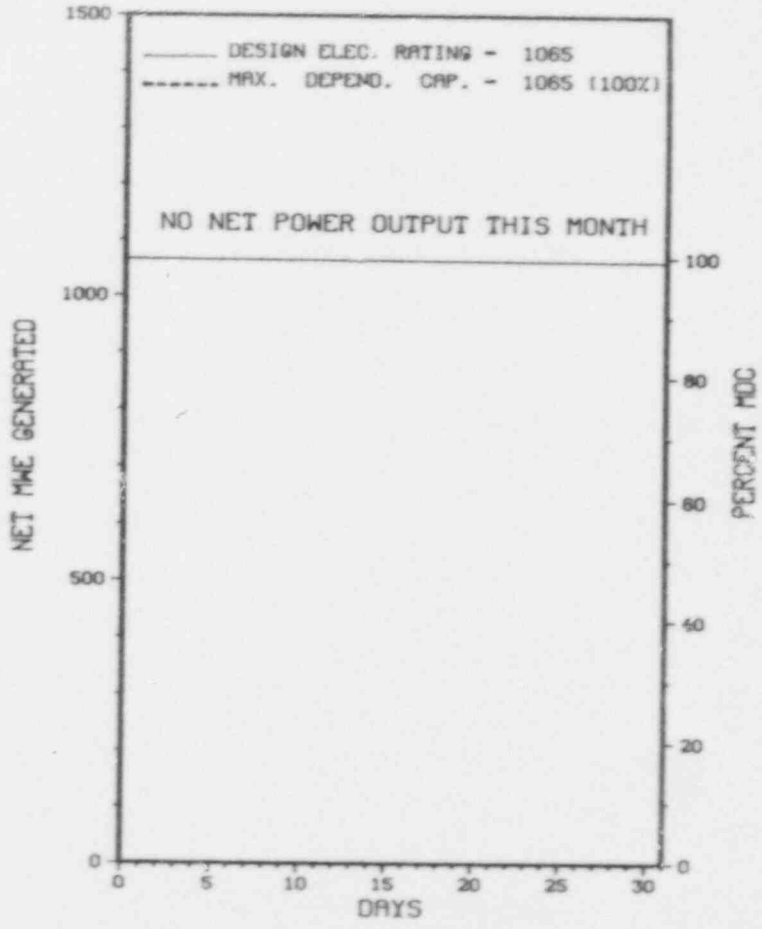
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 1



MARCH 1988

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

****
* SUMMARY *
****

BROWNS FERRY 1 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	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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....ALABAMA

COUNTY.....LIMESTONE

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

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...AUGUST 17, 1973

DATE ELEC ENER 1ST GENER...OCTOBER 15, 1973

DATE COMMERCIAL OPERATE....AUGUST 1, 1974

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....TENNESSEE RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....TENNESSEE VALLEY AUTHORITY

CORPORATE ADDRESS.....500A CHESTNUT STREET TOWER II
CHATTANOOGA, TENNESSEE 37401

CONTRACTOR
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. PAULK

LICENSING PROJ MANAGER.....J. GEARS
DOCKET NUMBER.....50-259

LICENSE & DATE ISSUANCE....DPR-33, DECEMBER 20, 1973

PUBLIC DOCUMENT ROOM.....ATHENS PUBLIC LIBRARY
SOUTH AND FORREST
ATHENS, ALABAMA 35611

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 5-18 (87-38): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF ALLEGATIONS AND LICENSEE ACTION ON INSPECTOR IDENTIFIED ITEMS. THREE VIOLATIONS WERE IDENTIFIED INVOLVING DIVISION OF NUCLEAR ENGINEERING (DNE) TRAINING, INEFFECTIVE FOLLOWUP ON AUDIT FINDINGS AND IMPROPER CORRECTIONS TO QUALITY ASSURANCE (QA) RECORDS.

INSPECTION JANUARY 1-31 (88-02): THIS ROUTINE INSPECTION WAS IN THE AREAS OF: OPEN INSPECTION ITEM FOLLOWUP; OPERATIONAL SAFETY; MAINTENANCE OBSERVATION, RESTART TEST PROGRAM; MAINTENANCE IMPROVEMENT; MANAGEMENT MEETINGS, COVERING NUCLEAR SAFETY REVIEW BOARD, PIECE PARTS, AND JOINT TEST GROUP ACTIVITIES; SURVEILLANCE INSTRUCTION (SI) UPGRADE PROGRAM REVIEW (TEAM INSPECTION); AND ENGINEERING CHANGES AND MODIFICATIONS. ONE VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION V WAS IDENTIFIED IN THE ENGINEERING CHANGES AND MODIFICATIONS AREA.

INSPECTION FEBRUARY 1-29 (88-04): THIS ROUTINE INSPECTION WAS IN THE AREAS OF OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, REPORTABLE OCCURRENCES, PREVIOUS ENFORCEMENT ACTION, RESTART TEST PROGRAM, EMPLOYEE CONCERNS, DESIGN CONTROLS AND QUALITY SURVEILLANCE REPORT REVIEWS. TWO VIOLATIONS WERE IDENTIFIED: TWO EXAMPLES OF INADEQUATE PROCEDURES OR FAILURE TO FOLLOW PROCEDURES FOR QA RECORDS PREPARATION AND WORKPLAN CONTROL, FAILURE TO CORRECTLY TRANSLATE THE DESIGN BASIS INTO SPECIFICATIONS AND DRAWINGS.

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, ONE 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.

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: FEBRUARY 1-29, 1988 +

INSPECTION REPORT NO: 50-259/88-04 +

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
88-005	01/22/88	02/19/88	DIESEL GENERATOR AND EMERGENCY EQUIPMENT COOLING WATER PUMP ACTUATIONS DUE TO PERSONNEL ERROR
88-006	02/20/88	03/18/88	UNPLANNED ESF ACTUATIONS DUE TO PERSONNEL ERROR CAUSED BY PROCEDURAL INADEQUACIES AND HUMAN FACTORS CONCERNS
88-007	01/27/88	02/26/88	RHR SERVICE WATER PUMP FLOW NOT DEMONSTRATED IN ACCORDANCE WITH TECH SPECS DUE TO CALIBRATION ERROR
88-008	01/20/88	02/19/88	STANDBY GAS TREATMENT RELATIVE HUMIDITY HEATERS HAVE NOT BEEN TESTED IN ACCORDANCE WITH TS DUE TO INADEQUATE PROCEDURES
88-009	02/02/88	03/03/88	UNPLANNED STANDBY GAS TREATMENT TRAIN ACTUATIONS DUE TO INADVERTENT RELAY OPERATIONS
88-010	01/22/88	03/04/88	INADEQUATE PROCEDURES CAUSE TWO CASES OF MISSED SAMPLES THAT WERE REQUIRED TO COMPENSATE FOR INOP EFFLUENT RADIATION MONITOR
88-011	03/04/88	04/01/88	ENGINEERED SAFETY FEATURE ACTUATION DUE TO PERSONNEL ERROR DURING RETURNING SYSTEM TO SERVICE
88-012	03/03/88	04/01/88	BATTERY FAILURE CONCURRENT WITH LOP/LOCA PREVENTS AUTOMATIC START OF RESIDUAL HEAT REMOVAL PUMP

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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: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3293

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

6. Design Electrical Rating (Net MWe): 1065

7. Maximum Dependable Capacity (Gross MWe): 1098

8. Maximum Dependable Capacity (Net MWe): 1065

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	114,721.0
13. Hours Reactor Critical	.0	.0	55,859.6
14. Rx Reserve Shtdwn Hrs	.0	.0	14,200.4
15. Hrs Generator On-Line	.0	.0	54,338.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	153,245,167
18. Gross Elec Ener (MWH)	0	0	50,771,798
19. Net Elec Ener (MWH)	-1,783	-5,742	49,178,091
20. Unit Service Factor	.0	.0	47.4
21. Unit Avail Factor	.0	.0	47.4
22. Unit Cap Factor (MDC Net)	.0	.0	40.3
23. Unit Cap Factor (DER Net)	.0	.0	40.3
24. Unit Forced Outage Rate	100.0	100.0	41.7
25. Forced Outage Hours	744.0	2,184.0	38,937.4

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

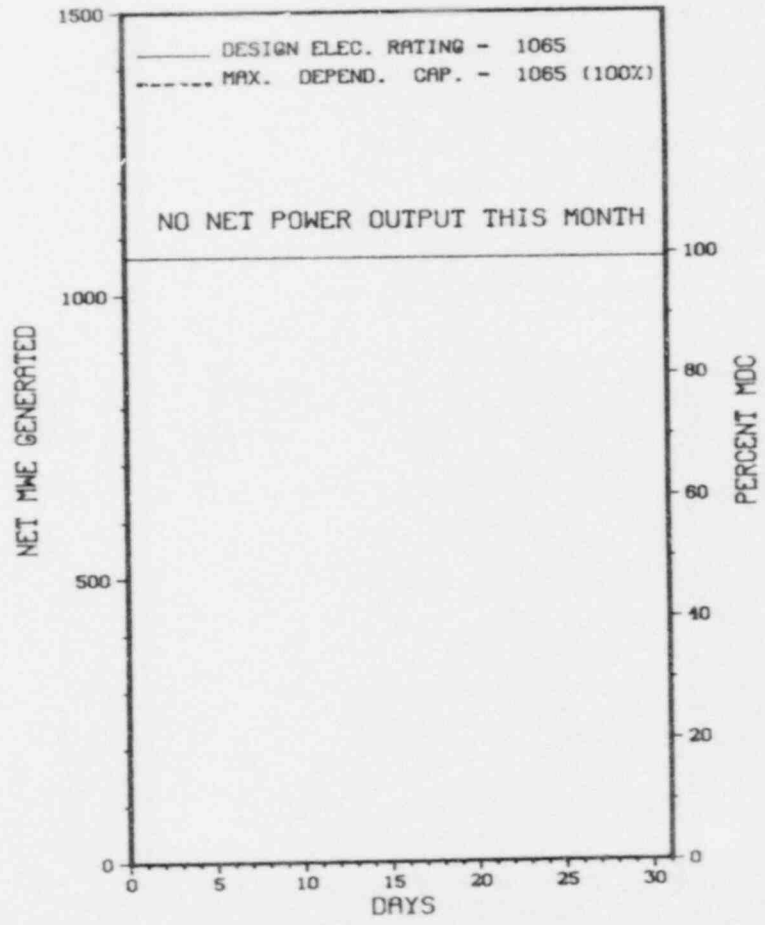
NONE

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

BROWNS FERRY 2

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 2



MARCH 1988

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

SUMMARY

BROWNS FERRY 2 REMAINED ON ADMINISTRATIVE HOLD IN MARCH IN ORDER TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

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

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

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....ALABAMA

COUNTY.....LIMESTONE

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

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...JULY 20, 1974

DATE ELEC ENER 1ST GENER...AUGUST 28, 1974

DATE COMMERCIAL OPERATE....MARCH 1, 1975

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....TENNESSEE RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....TENNESSEE VALLEY AUTHORITY

CORPORATE ADDRESS.....500A CHESTNUT STREET TOWER II
CHATTANOOGA, TENNESSEE 37401

CONTRACTOR
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. PAULK

LICENSING PROJ MANAGER.....J. GEARS
DOCKET NUMBER.....50-260

LICENSE & DATE ISSUANCE....DPR-52, AUGUST 2, 1974

PUBLIC DOCUMENT ROOM.....ATHENS PUBLIC LIBRARY
SOUTH AND FORREST
ATHENS, ALABAMA 35611

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 5-18 (87-38): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF ALLEGATIONS AND LICENSEE ACTION ON INSPECTOR IDENTIFIED ITEMS. THREE VIOLATIONS WERE IDENTIFIED INVOLVING DIVISION OF NUCLEAR ENGINEERING (DNE) TRAINING, INEFFECTIVE FOLLOWUP ON AUDIT FINDINGS AND IMPROPER CORRECTIONS TO QUALITY ASSURANCE (QA) RECORDS.

INSPECTION JANUARY 1-31 (88-02): THIS ROUTINE INSPECTION WAS IN THE AREAS OF: OPEN INSPECTION ITEM FOLLOWUP; OPERATIONAL SAFETY; MAINTENANCE OBSERVATION, RESTART TEST PROGRAM; MAINTENANCE IMPROVEMENT; MANAGEMENT MEETINGS, COVERING NUCLEAR SAFETY REVIEW BOARD, PIECE PARTS, AND JOINT TEST GROUP ACTIVITIES; SURVEILLANCE INSTRUCTION (SI) UPGRADE PROGRAM REVIEW (TEAM INSPECTION); AND ENGINEERING CHANGES AND MODIFICATIONS. ONE VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION V WAS IDENTIFIED IN THE ENGINEERING CHANGES AND MODIFICATIONS AREA.

INSPECTION FEBRUARY 1-29 (88-04): THIS ROUTINE INSPECTION WAS IN THE AREAS OF OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, REPORTABLE OCCURRENCES, PREVIOUS ENFORCEMENT ACTION, RESTART TEST PROGRAM, EMPLOYEE CONCERNS, DESIGN CONTROLS AND QUALITY SURVEILLANCE REPORT REVIEWS. TWO VIOLATIONS WERE IDENTIFIED: TWO EXAMPLES OF INADEQUATE PROCEDURES OR FAILURE TO FOLLOW PROCEDURES FOR QA RECORDS PREPARATION AND WORKPLAN CONTROL, FAILURE TO CORRECTLY TRANSLATE THE DESIGN BASIS INTO SPECIFICATIONS AND DRAWINGS.

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

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, ONE 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:

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.

OTHER ITEMS

LAST IE SITE INSPECTION DATE: FEBRUARY 1-29, 1988 +

INSPECTION REPORT NO: 50-260/88-04 +

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.			

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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: 03/01/83 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3293

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

6. Design Electrical Rating (Net MWe): 1065

7. Maximum Dependable Capacity (Gross MWe): 1098

8. Maximum Dependable Capacity (Net MWe): 1065

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	97,176.0
13. Hours Reactor Critical	.0	.0	45,306.8
14. Rx Reserve Shtdwn Hrs	.0	.0	5,149.4
15. Hrs Generator On-Line	.0	.0	44,195.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	131,846,076
18. Gross Elec Ener (MWH)	0	0	43,473,760
19. Net Elec Ener (MWH)	-1,539	-8,767	42,033,301
20. Unit Service Factor	.0	.0	45.5
21. Unit Avail Factor	.0	.0	45.5
22. Unit Cap Factor (MDC Net)	.0	.0	40.6
23. Unit Cap Factor (DER Net)	.0	.0	40.6
24. Unit Forced Outage Rate	100.0	100.0	42.7
25. Forced Outage Hours	744.0	2,184.0	32,921.4

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

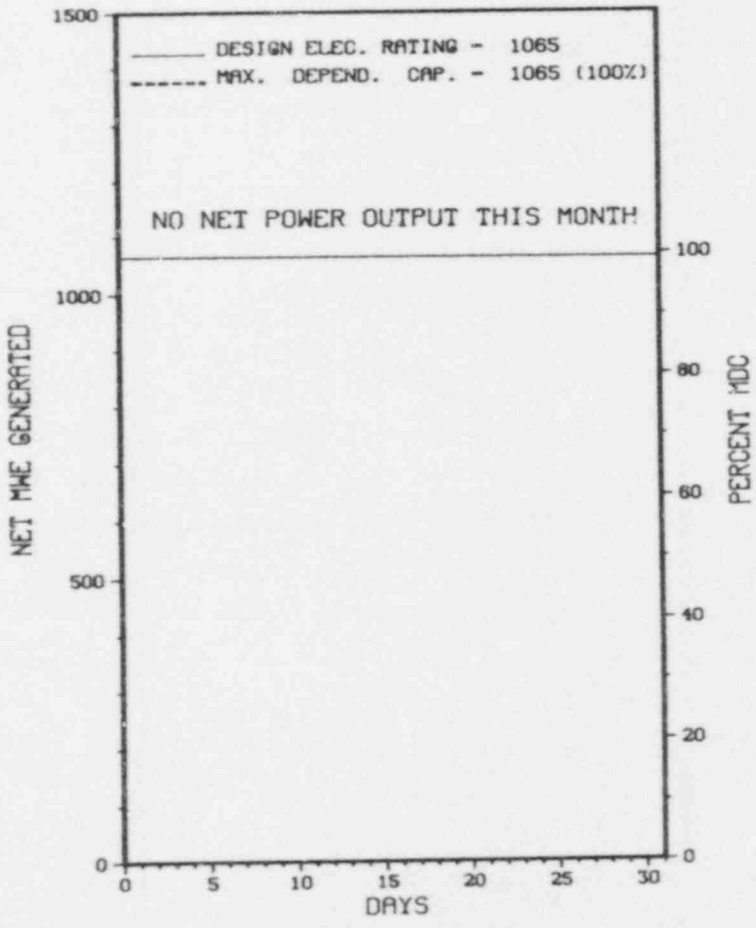
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BROWNS FERRY 3



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIUNS

BROWNS FERRY 3

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
157	03/03/85	F	744.0	F	4				ADMINISTRATIVE HOLD TO RESOLVE VARIOUS TVA AND NRC CONCERNS.

SUMMARY

BROWNS 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 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)

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

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....ALABAMA

COUNTY.....LIMESTONE

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

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...AUGUST 8, 1976

DATE ELEC ENER 1ST GENER...SEPTEMBER 12, 1976

DATE COMMERCIAL OPERATE....MARCH 1, 1977

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....TENNESSEE RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....TENNESSEE VALLEY AUTHORITY

CORPORATE ADDRESS.....500A CHESTNUT STREET TOWER II
CHATTANOOGA, TENNESSEE 37401

CONTRACTOR
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. PAULK

LICENSING PROJ MANAGER.....J. GEARS
DOCKET NUMBER.....50-296

LICENSE & DATE ISSUANCE....DPR-68, AUGUST 18, 1976

PUBLIC DOCUMENT ROOM.....ATHENS PUBLIC LIBRARY
SOUTH AND FORREST
ATHENS, ALABAMA 35611

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION OCTOBER 5-18 (87-38): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF ALLEGATIONS AND LICENSEE ACTION ON INSPECTOR IDENTIFIED ITEMS. THREE VIOLATIONS WERE IDENTIFIED INVOLVING DIVISION OF NUCLEAR ENGINEERING (DNE) TRAINING, INEFFECTIVE FOLLOWUP ON AUDIT FINDINGS AND IMPROPER CORRECTIONS TO QUALITY ASSURANCE (QA) RECORDS.

INSPECTION JANUARY 1-31 (88-02): THIS ROUTINE INSPECTION WAS IN THE AREAS OF: OPEN INSPECTION ITEM FOLLOWUP; OPERATIONAL SAFETY; MAINTENANCE OBSERVATION, RESTART TEST PROGRAM; MAINTENANCE IMPROVEMENT; MANAGEMENT MEETINGS, COVERING NUCLEAR SAFETY REVIEW BOARD, PIECE PARTS, AND JOINT TEST GROUP ACTIVITIES; SURVEILLANCE INSTRUCTION (SI) UPGRADE PROGRAM REVIEW (TEAM INSPECTION); AND ENGINEERING CHANGES AND MODIFICATIONS. ONE VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION V WAS IDENTIFIED IN THE ENGINEERING CHANGES AND MODIFICATIONS AREA.

INSPECTION FEBRUARY 1-29 (88-04): THIS ROUTINE INSPECTION WAS IN THE AREAS OF OPERATIONAL SAFETY, MAINTENANCE OBSERVATION, SURVEILLANCE TESTING OBSERVATION, REPORTABLE OCCURRENCES, PREVIOUS ENFORCEMENT ACTION, RESTART TEST PROGRAM, EMPLOYEE CONCERNS, DESIGN CONTROLS AND QUALITY SURVEILLANCE REPORT REVIEWS. TWO VIOLATIONS WERE IDENTIFIED: TWO EXAMPLES OF INADEQUATE PROCEDURES OR FAILURE TO FOLLOW PROCEDURES FOR QA RECORDS PREPARATION AND WORKPLAN CONTROL, FAILURE TO CORRECTLY TRANSLATE THE DESIGN BASIS INTO SPECIFICATIONS AND DRAWINGS.

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, ONE 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:

LICENSEE EVALUATING CAUSE OF REACTOR VESSEL WATER LEVEL INDICATION PROBLEMS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

TVA APPOINTED MR. JOHN WALKER TO PLANT MANAGER POSITION.

PLANT STATUS:

SHUTDOWN ON MARCH 9, 1985.

OTHER ITEMS

LAST IE SITE INSPECTION DATE: FEBRUARY 1-29, 1988 +

INSPECTION REPORT NO: 50-296/88-04 +

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.			

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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: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2436

5. Nameplate Rating (Gross MWe): 963 X 0.9 = 867

6. Design Electrical Rating (Net MWe): 821

7. Maximum Dependable Capacity (Gross MWe): 815

8. Maximum Dependable Capacity (Net MWe): 790

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	96,769.0
13. Hours Reactor Critical	744.0	1,530.8	62,468.5
14. Rx Reserve Shtdwn Hrs	.0	.0	1,647.1
15. Hrs Generator On-Line	744.0	1,461.6	59,322.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,787,981	3,438,753	125,418,289
18. Gross Elec Ener (MWH)	590,030	1,131,395	41,240,942
19. Net Elec Ener (MWH)	574,312	1,093,871	39,673,003
20. Unit Service Factor	100.0	66.9	61.3
21. Unit Avail Factor	100.0	66.9	61.3
22. Unit Cap Factor (MDC Net)	97.7	63.4	51.9
23. Unit Cap Factor (DER Net)	94.0	61.0	49.9
24. Unit Forced Outage Rate	.0	.0	15.3
25. Forced Outage Hours	.0	.0	10,619.7

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

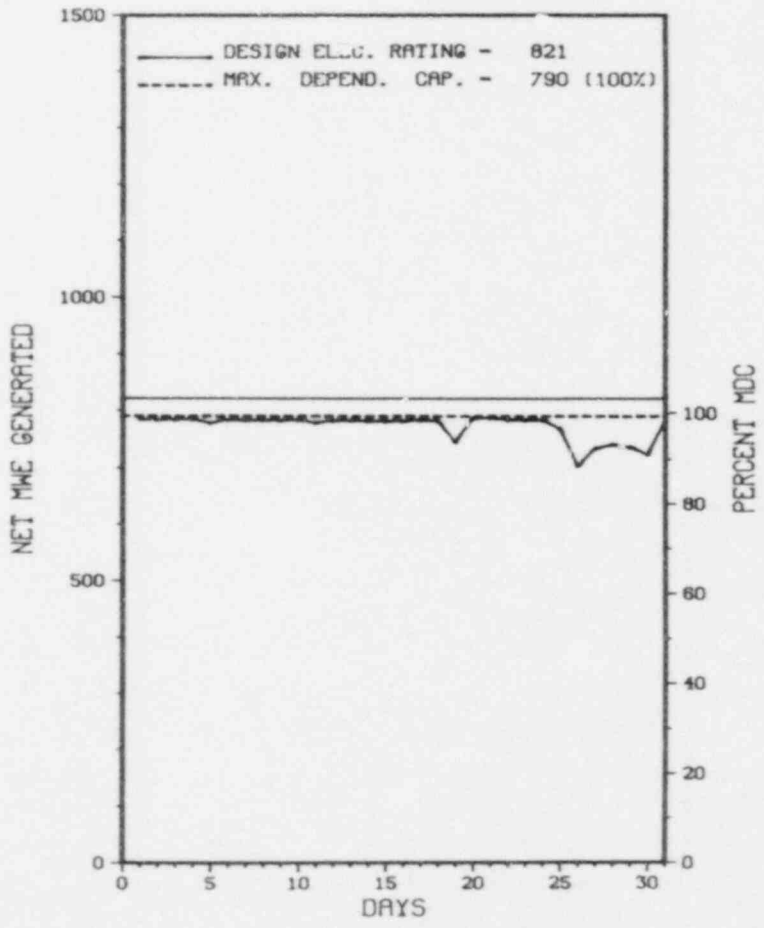
NONE

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

****
* BRUNSWICK 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRUNSWICK 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

BRUNSWICK 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88015	03/25/88	S	0.0	A	5				REDUCED POWER TO REMOVE FEEDWATER HEATERS 4A AND 5A FROM SERVICE TO INVESTIGATE INSTRUMENT LEAK. PERFORM ROD IMPROVEMENT.
88016	03/26/88	S	0.0	A	5				OPERATE AT REDUCED LOAD DUE TO FEEDWATER HEATERS 4A AND 5A BEING OUT OF SERVICE.
88017	03/27/88	S	0.0	B	5				SET NEW ROD PATTERN--PREVIOUS PATTERN TOO COLD.
88018	03/29/88	S	0.0	A	5				REDUCE POWER TO RETURN FEEDWATER HEATER 4A AND 5A TO SERVICE.

SUMMARY

BRUNSWICK 1 INCURRED 4 POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* BRUNSWICK 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....NORTH CAROLINA

COUNTY.....BRUNSWICK

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...3 MI N OF
SOUTHPORT, NC

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...OCTOBER 8, 1976

DATE ELEC ENER 1ST GENER...DECEMBER 4, 1976

DATE COMMERCIAL OPERATE....MARCH 18, 1977

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....CAPE FEAR RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....CAROLINA POWER & LIGHT

CORPORATE ADDRESS.....P. O. BOX 1551
RALEIGH, NORTH CAROLINA 27602

CONTRACTOR
ARCHITECT/ENGINEER.....UNITED ENG. & CONSTRUCTORS

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BROWN & ROOT

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....W. RULAND

LICENSING PROJ MANAGER.....E. SYLVESTER
DOCKET NUMBER.....50-325

LICENSE & DATE ISSUANCE....DPR-71, NOVEMBER 12, 1976

PUBLIC DOCUMENT ROOM.....RANDALL LIBRARY
UNIV OF N.C. AT WILMINGTON
601 S. COLLEGE ROAD
WILMINGTON, N. C. 28403

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 1-31 (88-01): THIS ROUTINE SAFETY INSPECTION BY THE RESIDENT INSPECTOR INVOLVED THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, PREPARATION FOR REFUELING, FOLLOWUP ON INSPECTOR IDENTIFIED AND UNRESOLVED ITEMS, ONSITE FOLLOWUP OF EVENTS, INADVERTENT HEATUP OF UNIT 1, AND PLANT MODIFICATIONS. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED - FAILURE TO COMPLETE TECHNICAL SPECIFICATION SURVEILLANCE WITHIN THE REQUIRED TIME. A PERSONNEL ERROR WHICH ALLOWED AN INADVERTENT HEATUP OF THE REACTOR COOLANT SYSTEM AND A QUESTION CONCERNING THE SEISMIC CLASS OF THE RADIATION MONITORING SYSTEM REMAINED UNRESOLVED AT THE CONCLUSION OF THE INSPECTION.

INSPECTION JANUARY 11-31 - FEBRUARY 5 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) OF WELDS, PIPING AND COMPONENTS FOR INTEGRANULAR STRESS CORROSION CRACKING (IGSCC), WELD OVERLAY REPAIR WELDING, REVIEW OF MECHANICAL STRESS IMPROVEMENT PROCESS (MSIP) ACTIVITIES, AND INDEPENDENT INSPECTION ACTIVITIES. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 1-29 (88-05): THIS ROUTINE SAFETY INSPECTION BY THE RESIDENT INSPECTOR INVOLVED THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ONSITE LICENSEE EVENT REPORTS (LER) REVIEW, Q-LIST REVIEW CONCERNS, DIESEL GENERATOR AIR SYSTEM SEISMIC QUALIFICATION, SILICON BRONZE BUS BAR BOLTS, HYDROGEN LEAK/UNUSUAL EVENT, ESF SYSTEM WALKDOWN, INERTING LINE FAILURE, AND PLANT MODIFICATIONS. IN THE AREAS INSPECTED, NO PROGRAMMATIC WEAKNESSES, VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. TWO UNRESOLVED ITEMS WERE IDENTIFIED: SERVICE WATER SYSTEM OPERATING MODE CONCERNS, AND CONTAINMENT ATMOSPHERE DILUTION SYSTEM DISCREPANCIES.

INSPECTION SUMMARY

INSPECTION JANUARY 25-29 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREA OF INSERVICE TESTING OF PUMPS AND VALVES. ONE VIOLATION WAS IDENTIFIED INVOLVING DEFICIENCIES IN VALVE TESTING PROCEDURES AND FAILURES TO FOLLOW THE PROCEDURES.

INSPECTION FEBRUARY 8 (88-08): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INCLUDED A REVIEW AND INSPECTION OF: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AREA; PHYSICAL BARRIERS - VITAL AREAS; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL; ACCESS CONTROL - PACKAGES; ACCESS CONTROL - VEHICLES; COMMUNICATIONS; AND SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS IN THE 12 AREAS INSPECTED.

INSPECTION FEBRUARY 8-12 (88-09): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF AUDITS AND APPRAISALS, OUTAGE PLANNING AND PREPARATION; TRAINING AND QUALIFICATION OF NEW PERSONNEL; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIAL, CONTAMINATION, SURVEYS AND MONITORING; MAINTAINING EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA); AND INFORMATION NOTICES FOLLOW-UP. TWO VIOLATIONS WERE IDENTIFIED - FAILURE TO MAINTAIN ACCESS TO A HIGH RADIATION AREA LOCKED; AND FAILURE TO FOLLOW PROCEDURES OR TO HAVE ADEQUATE PROCEDURES.

INSPECTION FEBRUARY 22-25 (88-12): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION, REVIEW OF THE STATUS OF APPENDIX R FIRE PROTECTION MODIFICATIONS, AND PREVIOUSLY IDENTIFIED INSPECTION ITEMS. 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 6.5.2 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 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 CONSEQUENITY CAUSING VALVE FAILURE. GE HAS CORRECTED RELATED MANUFACTURING PROBLEM, AND IS PRESENTLY TESTING THE CR305 REPLACEMENT BEFORE INSTALLATION IN TO BOTH UNITS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

OTHER ITEMS

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ PLANT OPERATION AT 100% POWER.

LAST IE SITE INSPECTION DATE: FEBRUARY 22-25, 1988 +

INSPECTION REPORT NO: 50-325/88-12 +

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
88-002	02/09/88	03/10/88	AUTO-ISOLATION OF RX WATER CLEANUP SYSTEM INLET OUTBOARD ISOLATION VALVE; SPURIOUS ACTUATION OF STEAM LEAK DETECTION
88-006	02/19/88	03/21/88	BOLT HEAD FAILURE OF SILICON BRONZE CARRIAGE BOLTS IN BUS/BAR CONNECTIONS OF ELECTRICAL SWITCHBOARDS
88-007	02/18/88	03/15/88	PRIMARY CONTAINMENT GROUP 1 ISOLATION SIGNAL FOLLOWING RESET OF MAIN TURBINE TRIP SIGNAL
88-008	03/02/88	03/31/88	FATIGUE CRACK FAILURES OF "A" AND "C" DIESEL GENERATOR BUILDING VENTILATION SUPPLY FANS

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2436

5. Nameplate Rating (Gross MWe): 963 X 0.9 = 867

6. Design Electrical Rating (Net MWe): 821

7. Maximum Dependable Capacity (Gross MWe): 815

8. Maximum Dependable Capacity (Net MWe): 790

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	108,793.0
13. Hours Reactor Critical	.0	24.3	67,097.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	24.3	63,270.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	37,715	126,625,194
18. Gross Elec Ener (MWH)	0	11,910	41,753,442
19. Net Elec Ener (MWH)	-4,898	-1,482	40,041,347
20. Unit Service Factor	.0	1.1	58.2
21. Unit Avail Factor	.0	1.1	58.2
22. Unit Cap Factor (MDC Net)	.0	.0	46.6
23. Unit Cap Factor (DER Net)	.0	.0	44.8
24. Unit Forced Outage Rate	.0	.4	14.9
25. Forced Outage Hours	.0	.1	11,459.9

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

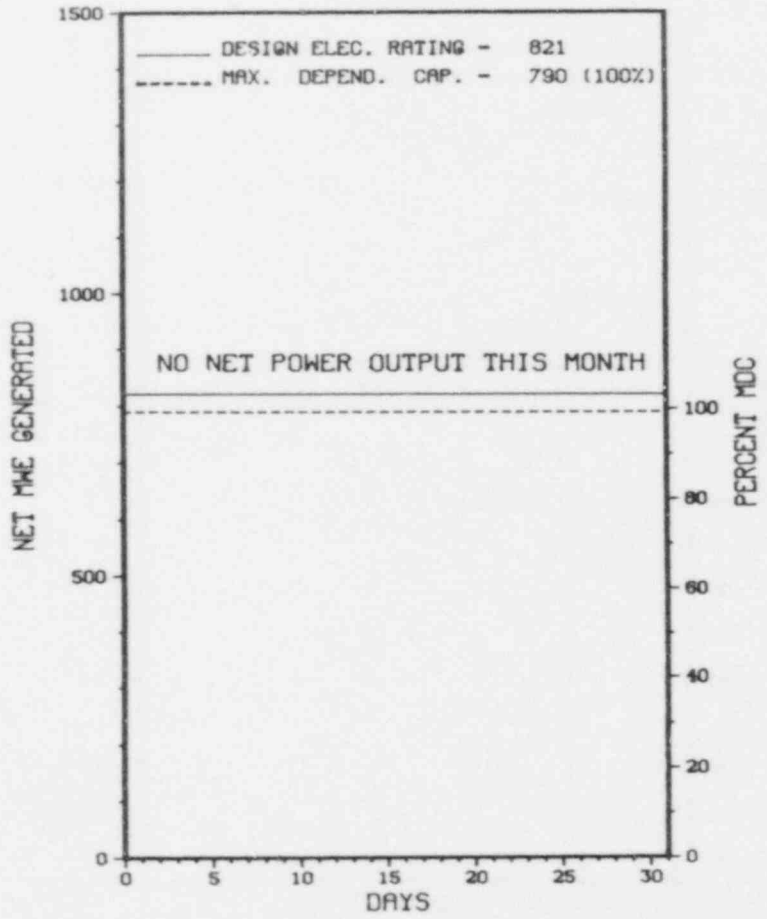
NONE

27. If Currently Shutdown Estimated Startup Date: 04/15/88

****
* BRUNSWICK 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BRUNSWICK 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* BRUNSWICK 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88003	01/02/88	S	744.0	C	4		RC	FUELXX	REFUELING/MAINTENANCE OUTAGE.

****
* SUMMARY *
****

BRUNSWICK 2 REMAINED SHUTDOWN IN MARCH FOR SCHEDULED REFUELING OUTAGE.

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

****
* BRUNSWICK 2 *
****

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

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

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601 S. COLLEGE ROAD
WILMINGTON, N. C. 28403

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

INSPECTION SUMMARY

+ INSPECTION JANUARY 1-31 (88-01): THIS ROUTINE SAFETY INSPECTION BY THE RESIDENT INSPECTOR INVOLVED THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, PREPARATION FOR REFUELING, FOLLOWUP ON INSPECTOR IDENTIFIED AND UNRESOLVED ITEMS, ONSITE FOLLOWUP OF EVENTS, INADVERTENT HEATUP OF UNIT 1, AND PLANT MODIFICATIONS. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED - FAILURE TO COMPLETE TECHNICAL SPECIFICATION SURVEILLANCE WITHIN THE REQUIRED TIME. A PERSONNEL ERROR WHICH ALLOWED AN INADVERTENT HEATUP OF THE REACTOR COOLANT SYSTEM AND A QUESTION CONCERNING THE SEISMIC CLASS OF THE RADIATION MONITORING SYSTEM REMAINED UNRESOLVED AT THE CONCLUSION OF THE INSPECTION.

INSPECTION JANUARY 11-31 - FEBRUARY 5 (88-02): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) OF WELDS, PIPING AND COMPONENTS FOR INTEGRANULAR STRESS CORROSION CRACKING (IGSCC), WELD OVERLAY REPAIR WELDING, REVIEW OF MECHANICAL STRESS IMPROVEMENT PROCESS (MSIP) ACTIVITIES, AND INDEPENDENT INSPECTION ACTIVITIES. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 1-29 (88-05): THIS ROUTINE SAFETY INSPECTION BY THE RESIDENT INSPECTOR INVOLVED THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT MATTERS, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ONSITE LICENSEE EVENT REPORTS (LER) REVIEW, Q-LIST REVIEW CONCERNS, DIESEL GENERATOR AIR SYSTEM SEISMIC QUALIFICATION, SILICON BRONZE BUS BAR BOLTS, HYDROGEN LEAK/UNUSUAL EVENT, ESF SYSTEM WALKDOWN, INERTING LINE FAILURE, AND PLANT MODIFICATIONS. IN THE AREAS INSPECTED, NO PROGRAMMATIC WEAKNESSES, VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. TWO UNRESOLVED ITEMS WERE IDENTIFIED: SERVICE WATER SYSTEM OPERATING MODE CONCERNS, AND CONTAINMENT ATMOSPHERE DILUTION SYSTEM DISCREPANCIES.

INSPECTION SUMMARY

INSPECTION JANUARY 25-29 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREA OF INSERVICE TESTING OF PUMPS AND VALVES. ONE VIOLATION WAS IDENTIFIED INVOLVING DEFICIENCIES IN VALVE TESTING PROCEDURES AND FAILURES TO FOLLOW THE PROCEDURES.

INSPECTION FEBRUARY 8 (88-08): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INCLUDED A REVIEW AND INSPECTION OF: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AREA; PHYSICAL BARRIERS - VITAL AREAS; COMPENSATORY MEASURES; ACCESS CONTROL - PERSONNEL; ACCESS CONTROL - PACKAGES; ACCESS CONTROL - VEHICLES; COMMUNICATIONS; AND SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS IN THE 12 AREAS INSPECTED.

INSPECTION FEBRUARY 8-12 (88-09): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF AUDITS AND APPRAISALS, OUTAGE PLANNING AND PREPARATION; TRAINING AND QUALIFICATION OF NEW PERSONNEL; EXTERNAL EXPOSURE CONTROL; INTERNAL EXPOSURE CONTROL; CONTROL OF RADIOACTIVE MATERIAL, CONTAMINATION, SURVEYS AND MONITORING; MAINTAINING EXPOSURES AS LOW AS REASONABLY ACHIEVABLE (ALARA); AND INFORMATION NOTICES FOLLOWUP. TWO VIOLATIONS WERE IDENTIFIED - FAILURE TO MAINTAIN ACCESS TO A HIGH RADIATION AREA LOCKED; AND FAILURE TO FOLLOW PROCEDURES OR TO HAVE ADEQUATE PROCEDURES.

INSPECTION FEBRUARY 22-25 (88-12): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION, REVIEW OF THE STATUS OF APPENDIX R FIRE PROTECTION MODIFICATIONS, AND PREVIOUSLY IDENTIFIED INSPECTION ITEMS. 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 NO. 4 COMPLETED ITS 15 MINUTE RUN AT 6:00 P.M., ON JANUARY 5, 1988.
(8800 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

****
* BRUNSWICK 2 *
****

OTHER ITEMS

NONE.

PLANT STATUS:

+ REFUELING OUTAGE RESTART IN LATE APRIL, 1988.

LAST IE SITE INSPECTION DATE: FEBURARY 22-25, 1988 +

INSPECTION REPORT NO: 50-324/88-12 +

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
88-003	02/07/88	03/07/88	AUTO-ISOLATION OF RX WATER CLEANUP SYSTEM INLET OUTBOARD ISOLATION VALVE WITH REACTOR DEFUELED
88-004	02/24/88	03/24/88	UNPLANNED AUTO STARTING OF SGT SYSTEM TRAINS AND AUTO ISOLATION OF REACTOR BLDG VENTILATION DURING SURV TESTING
88-005	02/04/88	03/04/88	SAFETY RELIEF VALVES SETPOINTS EXCEEDED DURING TESTING AT WYLE LABORATORIES

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1175

6. Design Electrical Rating (Net MWe): 1120

7. Maximum Dependable Capacity (Gross MWe): 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	744.0	2,184.0	22,273.0
13. Hours Reactor Critical	744.0	2,184.0	17,496.2
14. Rx Reserve Shtdwn Hrs	.0	.0	37.8
15. Hrs Generator On-Line	744.0	2,184.0	17,145.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,478,098	6,892,257	50,488,108
18. Gross Elec Ener (MWH)	829,329	2,282,775	16,908,552
19. Net Elec Ener (MWH)	786,151	2,159,539	15,899,016
20. Unit Service Factor	100.0	100.0	77.0
21. Unit Avail Factor	100.0	100.0	77.0
22. Unit Cap Factor (MDC Net)	94.3	88.3	63.7
23. Unit Cap Factor (DER Net)	94.3	88.3	63.7
24. Unit Forced Outage Rate	.0	.0	5.1
25. Forced Outage Hours	.0	.0	912.1

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

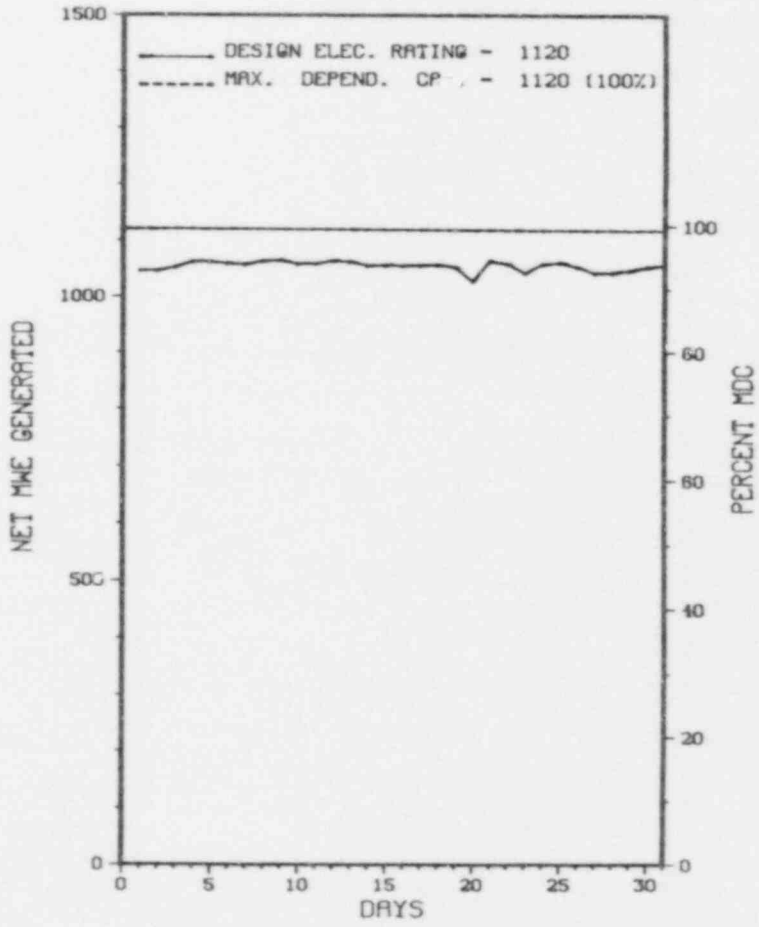
09/03/88

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

****
* BYRON 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* BYRON 1 *
****

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

****
* SUMMARY *
****

BYRON 1 OPERATED ROUTINELY IN MARCH WITH NO POWER 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* BYRON 1 *
****

FACILITY DATA

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

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ROCKFORD, ILLINOIS 61101

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON JANUARY 11 THROUGH FEBRUARY 17, 1988 (88003). SPECIAL, ANNOUNCED SAFETY INSPECTION OF THE ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRIC EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. THE INSPECTION INCLUDED LICENSEE ACTION ON PREVIOUSLY IDENTIFIED FINDINGS; SER/TER COMMITMENTS; EQ PROGRAM COMPLIANCE TO 10 CFR 50.49; ADEQUACY OF EQ DOCUMENTATION; AND A PLANT PHYSICAL INSPECTION OF EQ EQUIPMENT (MODULES NO. 30703, NO. 25576, AND NO. 92701). 10 CFR 50.49, PARAGRAPHS (F) AND (G), REQUIRES EQUIPMENT IMPORTANT TO SAFETY TO BE QUALIFIED BY TESTING AND ANALYSIS PRIOR TO THE EQ DEADLINE OF NOVEMBER 30, 1985. ONE VIOLATION WAS SITED.

INSPECTION BETWEEN JANUARY 28 AND FEBRUARY 18, 1988 (88004; 88005). INCLUDED A REVIEW OF PROTECTED AREA BARRIER; PROTECTED AREA DETECTION AIDS; ASSESSMENT AIDS; LIGHTING; RECORD AND REPORTS; AND ALARM STATIONS. THE LICENSEE'S PROGRESS IN RESOLVING REGULATORY EFFECTIVENESS REVIEW INSPECTION FINDINGS WAS REVIEWED. THE LICENSEE'S INVESTIGATION OF AN EVENT INVOLVING INADEQUATE FIREWATCH TOURS AND POTENTIALLY FALSIFIED RECORDS WAS ALSO REVIEWED. AN OPEN ITEM PERTAINING TO SPECIAL NUCLEAR MATERIAL (SNM) DOCUMENTATION WAS REVIEWED IN THE NRC REGION III OFFICE. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREA EXAMINED EXCEPT AS NOTED BELOW:

DETECTION AIDS - PROTECTED AREA: SEVERAL ZONES OF AN INTRUSION DETECTION SYSTEM DID NOT DETECT PENETRATION ATTEMPTS AS REQUIRED BY THE SECURITY PLAN (SECTION 8 OF THE REPORT DETAILS). AN OPEN ITEM PERTAINING TO SNM DOCUMENTATION WAS CLOSED. AN UNRESOLVED ITEM WAS IDENTIFIED PERTAINING TO INADEQUATE CORPORATE GUIDANCE FOR REPORTING SECURITY EVENTS. AN OPEN ITEM PERTAINING TO THE

****
* BYRON 1 *
****

INSPECTION SUMMARY

ADEQUACY OF CLOSED CIRCUIT TELEVISION FOR COMPENSATORY MEASURES WAS IDENTIFIED. THE LICENSEE INVESTIGATION METHODOLOGY PERTAINING TO INADEQUATE FIREWATCH TOURS WAS REVIEWED AND DETERMINED TO BE ADEQUATE (SECTIONS 2, 6, 7, AND 9 OF REPORT DETAILS). (DETAILS - UNCLASSIFIED SAFEGUARDS INFORMATION)

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

CHANGE NRC RESIDENT TO P. BROCHMAN NEW PLANT MANAGER, PRODUCTION SEPT.

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 03/31/88

INSPECTION REPORT NO: 88006

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1175

6. Design Electrical Rating (Net MWe): 1120

7. Maximum Dependable Capacity (Gross MWe): 1120

8. Maximum Dependable Capacity (Net MWe): 1120

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

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

11. Reasons for Restrictions, If Any:

STEAM GENERATOR SPLIT FLOW

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	5,377.0
13. Hours Reactor Critical	744.0	2,169.6	4,496.8
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	626.1	1,971.2	4,251.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,875,876	5,445,146	11,917,309
18. Gross Elec Ener (MWH)	613,398	1,796,428	3,900,739
19. Net Elec Ener (MWH)	577,226	1,687,212	3,658,113
20. Unit Service Factor	84.2	90.3	79.1
21. Unit Avail Factor	84.2	90.3	79.1
22. Unit Cap Factor (MDC Net)	69.3	69.0	60.7
23. Unit Cap Factor (DER Net)	69.3	69.0	60.7
24. Unit Forced Outage Rate	.0	1.3	6.9
25. Forced Outage Hours	.0	25.2	313.2

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

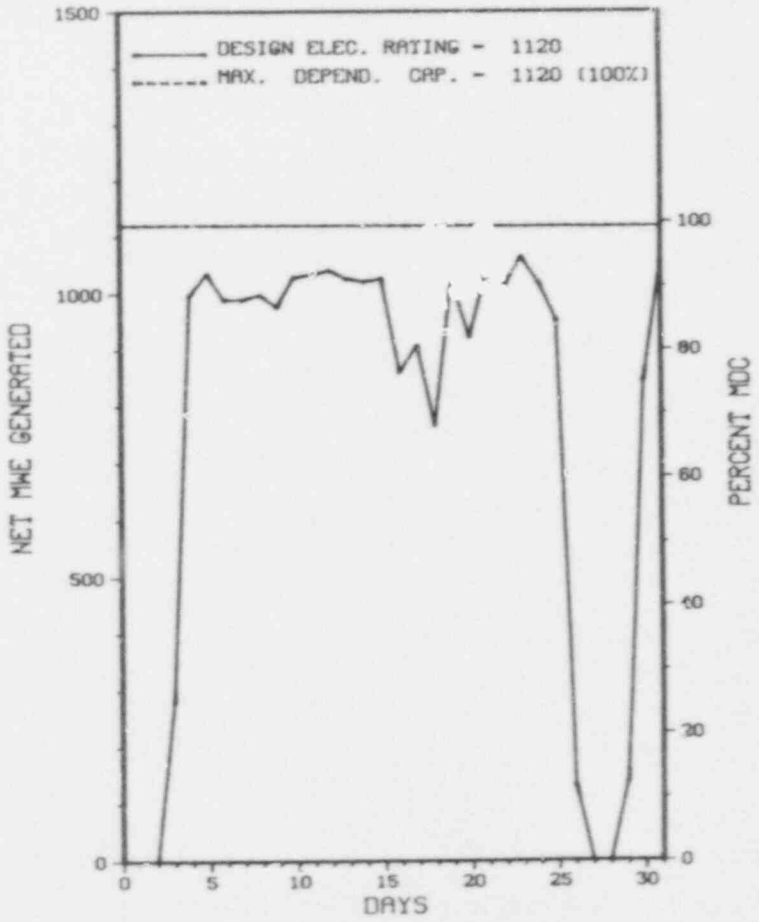
NONE

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

BYRON 2

AVERAGE DAILY POWER LEVEL (MWe) PLOT

BYRON 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* BYRON 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
5	02/27/88	S	52.8	A	4		EH		TOOK UNIT 2 TURBINE OFF LINE TO REPAIR EH SYSTEM LOW PRESSURE.
6	03/26/88	S	65.1	A	1		EH		TOOK UNIT 2 TURBINE OFF LINE TO REPAIR CHECK VALVE LEAKING ON #2 GV DUMP HEADER.

****
* SUMMARY *
****

BYRON 2 ENTERED MONTH SHUTDOWN. SUBSEQUENTLY, RETURNED TO POWER. INCURRED 1 OUTAGE 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* BYRON 2 *
****

FACILITY DATA

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

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INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON JANUARY 11 THROUGH FEBRUARY 17, 1988 (88003). SPECIAL, ANNOUNCED SAFETY INSPECTION OF THE ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRIC EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. THE INSPECTION INCLUDED LICENSEE ACTION ON PREVIOUSLY IDENTIFIED FINDINGS; SER/TER COMMITMENTS; EQ PROGRAM COMPLIANCE TO 10 CFR 50.49; ADEQUACY OF EQ DOCUMENTATION; AND A PLANT PHYSICAL INSPECTION OF EQ EQUIPMENT (MODULES NO. 30703, NO. 25576, AND NO. 92701). 10 CFR 50.49, PARAGRAPHS (F) AND (G), REQUIRES EQUIPMENT IMPORTANT TO SAFETY TO BE QUALIFIED BY TESTING AND ANALYSIS PRIOR TO THE EQ DEADLINE OF NOVEMBER 30, 1985. ONE VIOLATION WAS SITED.

INSPECTION BETWEEN JANUARY 28 AND FEBRUARY 18, 1988 (88004; 88005). INCLUDED A REVIEW OF PROTECTED AREA BARRIER; PROTECTED AREA DETECTION AIDS; ASSESSMENT AIDS; LIGHTING; RECORD AND REPORTS; AND ALARM STATIONS. THE LICENSEE'S PROGRESS IN RESOLVING REGULATORY EFFECTIVENESS REVIEW INSPECTION FINDINGS WAS REVIEWED. THE LICENSEE'S INVESTIGATION OF AN EVENT INVOLVING INADEQUATE FIREWATCH TOURS AND POTENTIALLY FALSIFIED RECORDS WAS ALSO REVIEWED. AN OPEN ITEM PERTAINING TO SPECIAL NUCLEAR MATERIAL (SNM) DOCUMENTATION WAS REVIEWED IN THE NRC REGION III OFFICE. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREA EXAMINED EXCEPT AS NOTED BELOW:

DETECTION AIDS - PROTECTED AREA: SEVERAL ZONES OF AN INTRUSION DETECTION SYSTEM DID NOT DETECT PENETRATION ATTEMPTS AS REQUIRED BY THE SECURITY PLAN (SECTION 8 OF THE REPORT DETAILS). AN OPEN ITEM PERTAINING TO SNM DOCUMENTATION WAS CLOSED. AN UNRESOLVED ITEM WAS IDENTIFIED PERTAINING TO INADEQUATE CORPORATE GUIDANCE FOR REPORTING SECURITY EVENTS. AN OPEN ITEM PERTAINING TO THE

****
* BYRON 2 *
****

INSPECTION SUMMARY

ADEQUACY OF CLOSED CIRCUIT TELEVISION FOR COMPENSATORY MEASURES WAS IDENTIFIED. THE LICENSEE INVESTIGATION METHODOLOGY PERTAINING TO INADEQUATE FIREWATCH TOURS WAS REVIEWED AND DETERMINED TO BE ADEQUATE (SECTIONS 2, 6, 7, AND 9 OF REPORT DETAILS). (DETAILS - UNCLASSIFIED SAFEGUARDS INFORMATION)

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

CHANGE NRC RESIDENT TO P BROCHMAN

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 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

1. Docket: 50-483 O P E R A T I N G S T A T U S
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
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 (Net MWe):
11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	28,766.5
13. Hours Reactor Critical	744.0	2,077.7	24,075.5
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,047.6	23,503.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,534,237	6,879,631	75,169,411
18. Gross Elec Ener (MWH)	864,368	2,347,368	25,389,088
19. Net Elec Ener (MWH)	824,482	2,236,720	24,126,396
20. Unit Service Factor	100.0	93.8	81.7
21. Unit Avail Factor	100.0	93.8	81.7
22. Unit Cap Factor (MDC Net)	98.9	91.4	74.9
23. Unit Cap Factor (DER Net)	94.6	87.5	71.6
24. Unit Forced Outage Rate	.0	6.2	4.2
25. Forced Outage Hours	.0	136.4	1,039.9

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

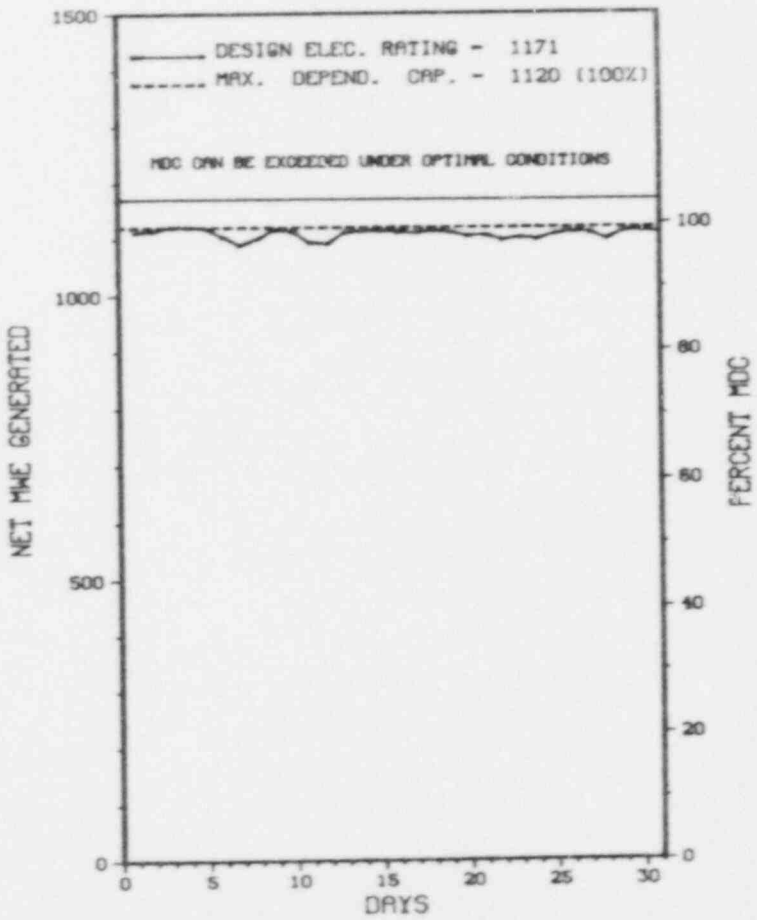
NONE

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

CALLAWAY 1

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALLAWAY 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* CALLAWAY 1 *
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
NONE									

****
* SUMMARY *
****

CALLAWAY 1 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....MISSOURI

COUNTY.....CALLAWAY

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

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...OCTOBER 2, 1984

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

DATE COMMERCIAL OPERATE....DECEMBER 19, 1984

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER....MISSOURI RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....UNION ELECTRIC

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

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....DANIEL INTERNATIONAL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....B. LITTLE

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

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

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 18 - MARCH 3, 1988 (88005). INCLUDED A REVIEW OF MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; RECORDS AND REPORTS; PROTECTED AREA BARRIERS AND ALARMS; LIGHTING; ASSESSMENT AIDS; ALARM STATIONS; PROTECTION OF SAFEGUARDS INFORMATION; AND FOLLOWUP ON PREVIOUS INSPECTION FINDINGS. PROPOSED MODIFICATIONS TO A PORTION OF THE PROTECTED AREA BOUNDARY WERE ALSO REVIEWED. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED DURING THE INSPECTION. SENIOR MANAGEMENT SUPPORT IS NEEDED TO CORRECT TWO ADVERSE TRENDS NOTED DURING THE INSPECTION. THESE TRENDS PERTAINED TO VITAL AREA DOOR CLOSURE PROBLEMS AND VEHICLE KEY CONTROL WITHIN THE PROTECTED AREA. CORRECTIVE ACTIONS FOR FIVE FINDINGS IDENTIFIED IN INSPECTION REPORT NO. 50-483/87027(DRSS) WERE REVIEWED, AND THE INSPECTION FINDINGS WERE CLOSED. A CONCERN PERTAINING TO STRENGTHENING ALARM STATION OPERATIONS WAS NOTED. SUBMITTAL OF A FORMAL PROPOSAL PERTAINING TO THE SITE PROTECTED AREA BOUNDARY MODIFICATION WAS RECOMMENDED. (DETAILS - UNCLASSIFIED SAFEGUARDS INFORMATION)

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

LAST IE SITE INSPECTION DATE: 03/03/88

INSPECTION REPORT NO: 88005

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

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-04	021388	031488	TURBINE/REACTOR TRIP ON SHORTED JUMPER DURING TURBINE TESTING AND LOW STEAM LINE PRESSURE SAFETY INJECTION DUE TO INADEQUATELY MONITORED RCS TEMPERATURE

1. Docket: 50-317 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: C. BEHNKE (301) 260-4871
4. Licensed Thermal Power (MWt): 2700
5. Nameplate Rating (Gross MWe): 1020 X 0.9 = 918
6. Design Electrical Rating (Net MWe): 845
7. Maximum Dependable Capacity (Gross MWe): 860
8. Maximum Dependable Capacity (Net MWe): 825
9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	113,077.0
13. Hours Reactor Critical	744.0	2,184.0	88,571.2
14. Rx Reserve Shtdwn Hrs	.0	.0	2,299.2
15. Hrs Generator On-Line	744.0	2,158.4	86,611.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,933,567	5,628,600	217,703,318
18. Gross Elec Ener (MWH)	649,141	1,892,567	72,108,168
19. Net Elec Ener (MWH)	623,869	1,815,837	68,831,354
20. Unit Service Factor	100.0	98.8	76.6
21. Unit Avail Factor	100.0	98.8	76.6
22. Unit Cap Factor (MDC Net)	101.6	100.8	73.8*
23. Unit Cap Factor (DER Net)	99.2	98.4	72.0
24. Unit Forced Outage Rate	.0	1.2	9.1
25. Forced Outage Hours	.0	25.6	8,607.8

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

APRIL 8, 1988, - REFUELING - 48 DAY DURATION.

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

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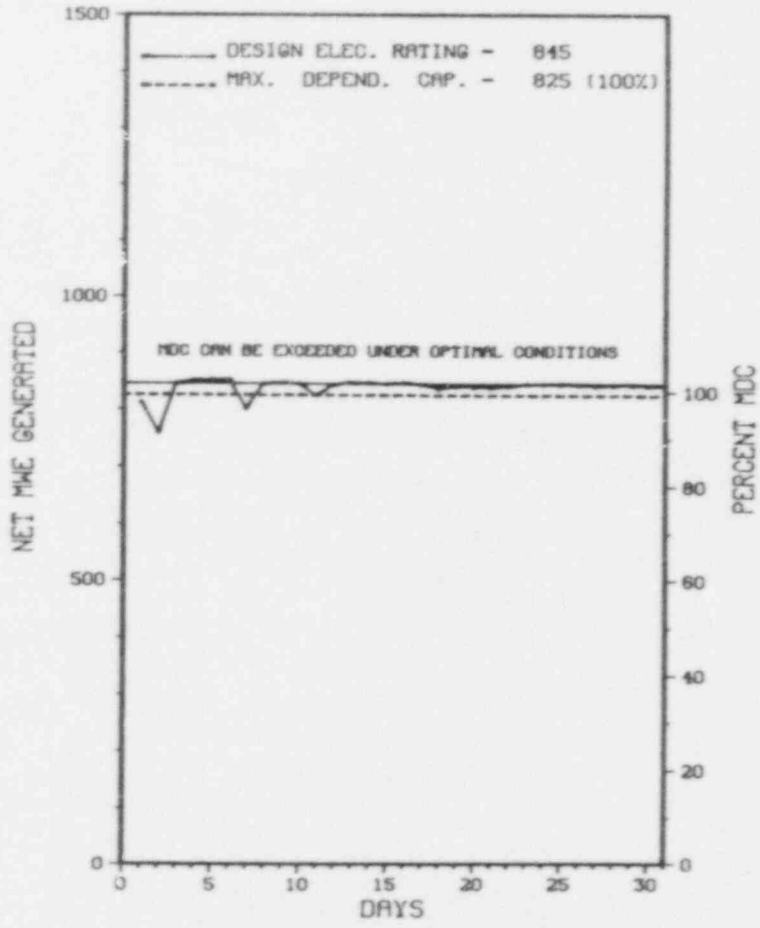
* CALVERT CLIFFS 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALVERT CLIFFS 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

CALVERT CLIFFS 1

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

SUMMARY

CALVERT CLIFFS 1 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

Report Period MAR 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

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

PUBLIC DOCUMENT ROOM .....CALVERT COUNTY LIBRARY
FOURTH STREET
PRINCE FREDERICK, MARYLAND 20678

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2700

5. Nameplate Rating (Gross MWe): 1012 X 0.9 = 911

6. Design Electrical Rating (Net MWe): 845

7. Maximum Dependable Capacity (Gross MWe): 860

8. Maximum Dependable Capacity (Net MWe): 825

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	96,432.0
13. Hours Reactor Critical	.0	1,357.7	79,200.7
14. Rx Reserve Shtdwn Hrs	.0	.0	1,296.8
15. Hrs Generator On-Line	.0	1,352.9	78,033.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	3,556,246	196,896,909
18. Gross Elec Ener (MWH)	0	1,210,673	65,098,809
19. Net Elec Ener (MWH)	0	1,161,178	62,150,075
20. Unit Service Factor	.0	61.9	80.9
21. Unit Avail Factor	.0	61.9	80.9
22. Unit Cap Factor (MDC Net)	.0	64.4	78.1
23. Unit Cap Factor (DER Net)	.0	62.9	76.3
24. Unit Forced Outage Rate	.0	1.2	5.5
25. Forced Outage Hours	.0	15.8	4,588.3

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

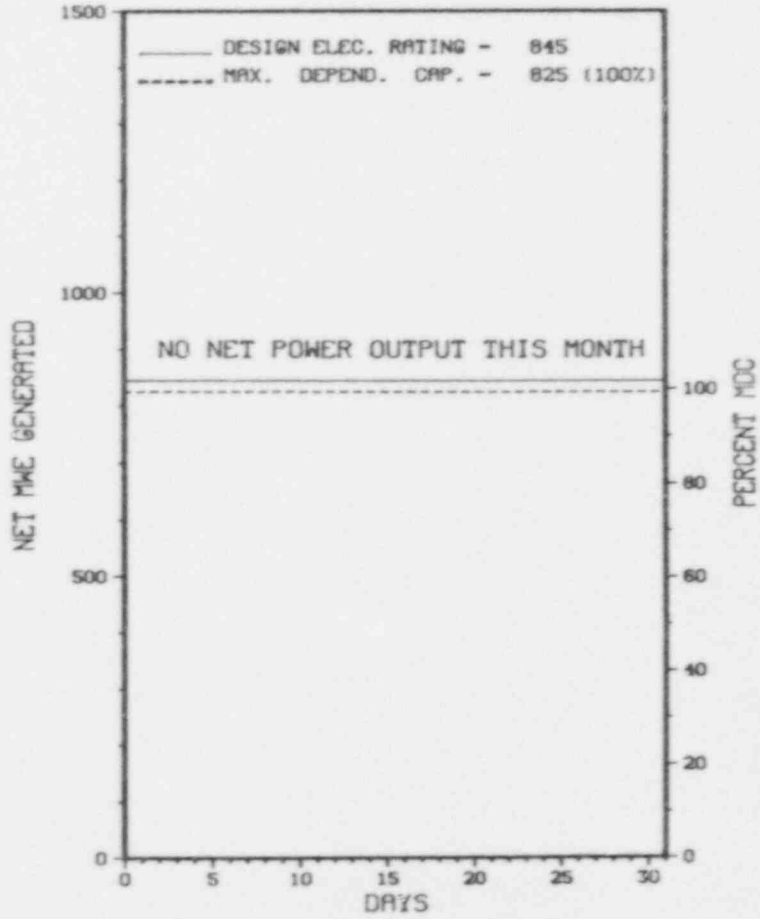
NONE

27. If Currently Shutdown Estimated Startup Date: 04/01/88

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CALVERT CLIFFS 2



MARCH 1988

Report Period MAR 1988 U N I T S H U T D O W N S / R E D U C T I O N S

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

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-05	02/27/88	S	744.0	B	4				CONTINUED SHUTDOWN FOR PRE-SUMMER GENERAL MAINTENANCE MINI-OUTAGE.

****
* SUMMARY *
****

CALVERT CLIFFS 2 REMAINED SHUTDOWN IN MARCH FOR PRE-SUMMER GENERAL MAINTENANCE MINI-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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DESCRIPTION

LOCATION
STATE.....MARYLAND

COUNTY.....CALVERT

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

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...NOVEMBER 30, 1976

DATE ELEC ENER 1ST GENER...DECEMBER 7, 1976

DATE COMMERCIAL OPERATE....APRIL 1, 1977

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....CHESAPEAKE BAY

ELECTRIC RELIABILITY
COUNCIL..... ....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....BALTIMORE GAS & ELEC

CORPORATE ADDRESS.....P.O. BOX 1475
BALTIMORE, MARYLAND 21203

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....T. FOLEY

LICENSING PROJ MANAGER.....S. MCNEIL
DOCKET NUMBER.....50-318

LICENSE & DATE ISSUANCE....DPR-69, NOVEMBER 30, 1976

PUBLIC DOCUMENT ROOM.....CALVERT COUNTY LIBRARY
FOURTH STREET
PRINCE FREDERICK, MARYLAND 20678

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

INSPECTION STATUS - (CONTINUED)

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

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-413 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1305

6. Design Electrical Rating (Net MWe): 1145

7. Maximum Dependable Capacity (Gross MWe): 1145

8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	24,169.0
13. Hours Reactor Critical	667.1	1,897.8	17,011.8
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	658.7	1,854.6	16,453.9
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,127,096	5,879,324	51,934,188
18. Gross Elec Ener (MWH)	758,660	[illegible]	18,176,192
19. Net Elec Ener (MWH)	715,879	1,960,060	16,960,905
20. Unit Service Factor	88.5	84.9	68.1
21. Unit Avail Factor	88.5	84.9	68.1
22. Unit Cap Factor (MDC Net)	85.2	79.5	62.2
23. Unit Cap Factor (DER Net)	84.0	78.4	61.3
24. Unit Forced Outage Rate	11.5	15.1	17.9
25. Forced Outage Hours	85.3	328.9	3,588.0

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

NONE

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

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* CATAWBA 1 *
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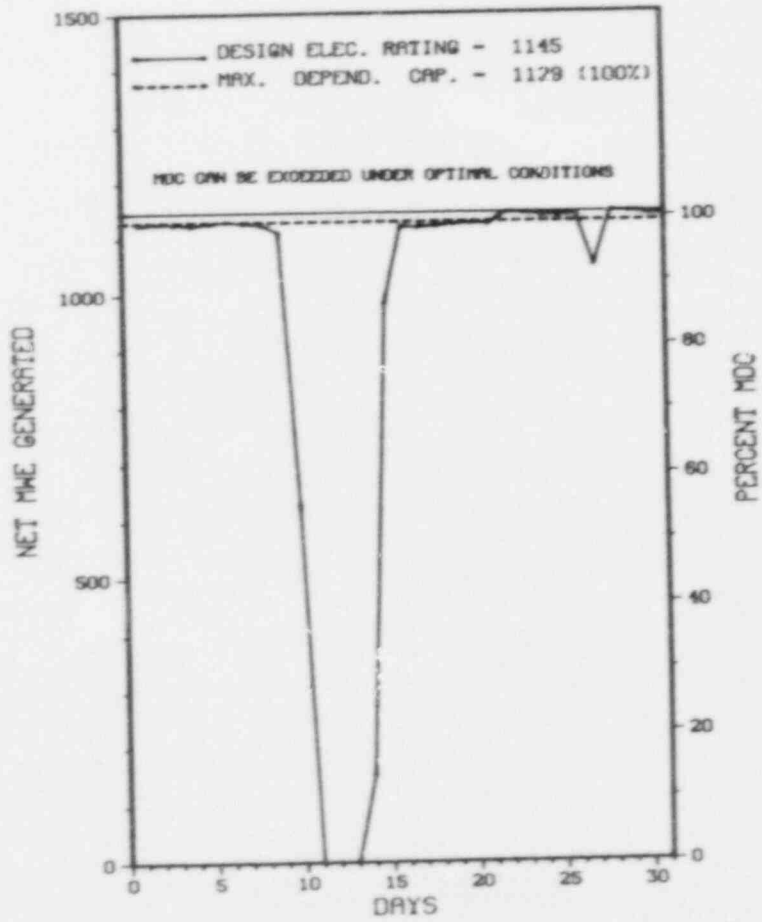
AVERAGE DAILY POWER LEVEL (MWe) PLOT

CATAWBA 1



MARCH 1988

Report Period MAR 1988

U N I T S H U T D O W N S / R E D U C T I O N S

****
* CATAWBA 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
22-P	03/01/88	F	0.0	A	5		CB	XXXXXX	POWER REDUCTION DUE TO REACTOR COOLANT FLOW OUT OF SPEC.
23-P	03/09/88	F	0.0	H	5		CG	XXXXXX	POWER DECREASE DUE TO ACCIDENTAL BORON INJECTION.
24-P	03/10/88	F	0.0	H	5		WB	XXXXXX	POWER REDUCTION DUE TO LOSS OF ASSURED BACKUP COOLING WATER DUE TO ASIATIC CLAMS.
7	03/10/88	F	85.3	H	1		WB	XXXXXX	UNIT SHUTDOWN DUE TO LOSS OF ASSURED BACKUP COOLING WATER DUE TO ASIATIC CLAMS.
25-P	03/14/88	S	0.0	B	5		IE	INSTRU	POWER INCREASE ON HOLD FOR NUCLEAR INSTRUMENTATION CALIBRATION.
30-P	03/27/88	S	0.0	F	5		ZZ	ZZZZZZ	POWER REDUCTION PER DISPATCHER REQUEST.

****
* SUMMARY *
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CATAWBA 1 INCURRED 1 POWER OUTAGE AND SEVERAL POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* CATAWBA 1 *
****

FACILITY DATA

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 17-21 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED THE OBSERVATION OF THE ANNUAL EMERGENCY RESPONSE EXERCISE. THIS FULL PARTICIPATION EXERCISE (WITH THE EXCEPTION OF MECKLENBURG COUNTY AND THE STATE OF NORTH CAROLINA) WAS INITIATED AT 6:00 P.M. ON FEBRUARY 19, AS AN UNANNOUNCED EXERCISE. FOLLOWING THE STAFFING AND ACTIVATION OF LICENSEE, STATE, AND COUNTY EMERGENCY FACILITIES, THE EXERCISE WAS SUSPENDED UNTIL 9:00 A.M. ON THE NEXT DAY. THE EXERCISE THEN RESUMED AND WAS TERMINATED AT 2:40 P.M. FIVE EXERCISE WEAKNESS WERE IDENTIFIED INVOLVING THE FAILURE TO FULLY MEET EXERCISE OBJECTIVES IN THE AREAS OF EMERGENCY MANAGEMENT, ACCIDENT ASSESSMENT, PROTECTIVE ACTION RECOMMENDATIONS, AND THE MEDICAL DRILL. THEREFORE, THE LICENSEE COMMITTED TO AN EARLY DEMONSTRATION OF CORRECTIVE ACTIONS BY CONDUCTING A SITE ONLY MEDICAL DRILL; A PARTIAL CMC STAFF TABLE TOP EXERCISE USING THE FEBRUARY 20, 1988, SCENARIO AS THE TRAINING MEDIA; AND THE FULL MANNING AND PARTICIPATION OF THE CMC STAFF IN THE FORTHCOMING MCGUIRE EMERGENCY EXERCISE. ALTHOUGH CORRECTIVE ACTIONS ARE REQUIRED, THE EXERCISE WAS CONSIDERED SUCCESSFUL IN THAT THE LICENSEE DEVELOPED A PLAUSIBLE AND CHALLENGING SCENARIO THAT IDENTIFIED TRAINING WEAKNESSES. THE LICENSEE'S TIMELY AND AGGRESSIVE RESPONSE TO SECURING CORRECTIVE ACTIONS IS INDICATIVE OF MANAGEMENT SUPPORT TO AN EFFECTIVE EMERGENCY PREPAREDNESS PROGRAM.

+ 4 JANUARY 26 - FEBRUARY 25 (88-08): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF PLANT OPERATIONS; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; 0 PREVIOUSLY IDENTIFIED ITEMS; REFUELING ACTIVITIES AND MEETING WITH LOCAL OFFICIALS. OF THE SEVEN (7) AREAS INSPECTED, [illegible]ENT VIOLATIONS WERE IDENTIFIED IN TWO AREAS. (FAILURE TO FOLLOW PROCEDURES RESULTING IN TWO INADVERTENT SAFETY [illegible]ONS; AND INADEQUATE CORRECTIVE ACTION INVOLVING MOUNTING HARDWARE MODIFICATION FOR ROTORK ACTUATORS.

INSPECTION SUMMARY

INSPECTION FEBRUARY 2-4 (88-09): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF STEAM GENERATOR TUBE PROBLEMS (UNIT 2). ONE VIOLATION WAS IDENTIFIED - FAILURE TO ESTABLISH ADEQUATE MEASURES TO CONTROL ET TESTING OF STEAM GENERATOR TUBES.

INSPECTION FEBRUARY 8-12 (88-10): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS PROTECTED AREA; LIGHTING; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL AND PACKAGES; AND PERSONNEL TRAINING AND QUALIFICATION - GENERAL REQUIREMENTS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

INSPECTION FEBRUARY 16-18 (88-11): THIS ROUTINE, UNANNOUNCED ENTAILED THE REVIEW OF PROCEDURES, RECORDS, AND OPERATIONS FOR THE CONTROL, AND ACCOUNTABILITY OF SPECIAL NUCLEAR MATERIAL. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 26 - MARCH 25 (88-13): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF REVIEW OF PLANT OPERATIONS; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS AND STARTUP ACTIVITIES (UNIT 2). OF THE SIX (6) AREAS INSPECTED, ONE APPARENT VIOLATION WAS IDENTIFIED IN ONE AREA. (FAILURE TO FOLLOW TECHNICAL SPECIFICATION ADMINISTRATIVE REQUIREMENTS FOR APPROVAL OF MODIFICATIONS.

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: FEBRUARY 26 - MARCH 25, 1988 +

INSPECTION REPORT NO: 50-413/88-13 +

Report Period MAR 1988

REPORTS FROM LICENSEE

****
* CATAWBA 1 *
****

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-005	01/20/88	02/19/88	COLD LEG ACCUM DISCHARGE ISOLATION VALVE MOTOR OPER FOUND TO CONTAIN NON-ENVIR QUALIFIED TERMINAL BLOCKS; MANUFACTURE DEFICIENCY
88-006	01/22/88	02/19/88	UNPLANNED NUCLEAR SERVICE WATER SWAP TO THE STANDBY NUCLEAR SERVICE WATER POND DUE O A MANAGEMENT DEFICIENCY
88-007	01/23/88	02/22/88	SAFETY INJECTION ACTUATED DURING UNIT HEAT-UP DUE TO A PERSONNEL ERROR
88-008	01/25/88	02/24/88	ONE TRAIN OF CONTROL ROOM AREA VENTILATION SYSTEM INOPERABLE DUE TO A PERSONNEL ERROR
88-009	02/06/88	03/07/88	FAILURE TO MAINTAIN ENVIRONMENTAL QUALIFICATIONS OF LIMITORQUE VALVE ACTUATORS DUE TO CONSTRUCTION AND MANAGEMENT DEFICIENCY
88-010	02/11/88	03/11/88	UNMONITORED RELEASE OF LIQUID RADWASTE DUE TO PERSONNEL ERROR
88-011	01/26/88	03/11/88	NUTS RECEIVED AND ISSUED AS ASME CATEGORY II WITHOUT PROPER DOCUMENTATION; MANUFACTURING DEFICIENCY AND A PERSONNEL ERROR
88-013	02/29/88	03/31/88	TECH SPEC VIOLATION BECAUSE BOTH TRAINS OF THE CONTAINMENT SPRAY SYSTEM BEING INOPERABLE DUE TO A MANAGEMENT DEFICIENCY

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1305

6. Design Electrical Rating (Net MWe): 1145

7. Maximum Dependable Capacity (Gross MWe): 1145

8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	14,185.0
13. Hours Reactor Critical	377.7	377.7	8,983.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	315.0	315.0	8,659.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	840,085	840,085	26,567,578
18. Gross Elec Ener (MWH)	291,287	291,287	9,368,315
19. Net Elec Ener (MWH)	255,292	235,672	8,702,369
20. Unit Service Factor	42.3	14.4	61.0
21. Unit Avail Factor	42.3	14.4	61.0
22. Unit Cap Factor (MDC Net)	30.4	9.6	54.3
23. Unit Cap Factor (DER Net)	30.0	9.4	53.6
24. Unit Forced Outage Rate	57.6	59.5	30.8
25. Forced Outage Hours	427.5	463.5	3,857.5

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

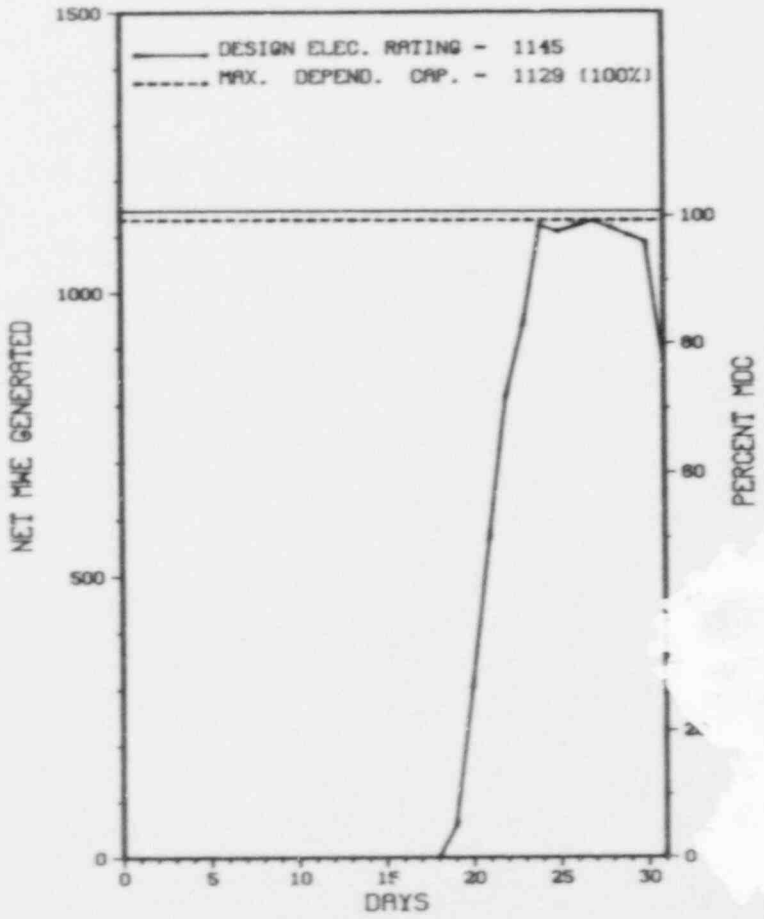
NONE

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

****
* CATAWBA 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CATAWBA 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

CATAWBA 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	02/28/88	F	197.2	A	4		HH	PUMPXX	OUTAGE OVERRUN DUE TO TURBINE DRIVEN AUXILIARY FEEDWATER PUMP PROBLEMS.
5	03/09/88	S	1.5	B	2		HA	TURBIN	TURBINE OVERSPEED TRIP TEST.
6	03/09/88	F	18.0	A	3		HH	VALVEX	TURBINE/REACTOR TRIP WHEN S/G "2B" FEEDWATER BYPASS CONTROL VALVE FAILED OPEN.
7	03/10/88	F	212.3	H	9		WB	XXXXXX	START-UP DELAY DUE TO LOSS OF ASSURED BACKUP COOLING WATER DUE TO ASIATIC CLAMS.
1-P	03/19/88	S	0.0	B	5		IE	XXXXXX	POWER INCREASE ON HOLD FOR FLUX MAPPING.
2-P	03/20/88	F	0.0	H	5		IF	XXXXXX	POWER INCREASE DELAY DUE TO LOW REACTOR COOLANT SYSTEM AVERAGE TEMPERATURE.
3-P	03/20/88	S	0.0	B	5		IE	INSTRU	POWER INCREASE ON HOLD DUE TO NUCLEAR INSTRUMENTATION CALIBRATION.
17-P	03/31/88	F	0.0	B	5		HH	VALVEX	POWER DECREASE FOR REPAIR OF S/G "2C" FEEDWATER CONTROL VALVE.

SUMMARY

CATAWBA 2 INCURRED 4 POWER OUTAGES AND NUMEROUS POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* CATAWBA 2 *
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FACILITY DATA

Report Period MAR 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 17-21 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED THE OBSERVATION OF THE ANNUAL EMERGENCY RESPONSE EXERCISE. THIS FULL PARTICIPATION EXERCISE (WITH THE EXCEPTION OF MECKLENBURG COUNTY AND THE STATE OF NORTH CAROLINA) WAS INITIATED AT 6:00 P.M. ON FEBRUARY 19, AS AN UNANNOUNCED EXERCISE. FOLLOWING THE STAFFING AND ACTIVATION OF LICENSEE, STATE, AND COUNTY EMERGENCY FACILITIES, THE EXERCISE WAS SUSPENDED UNTIL 9:00 A.M. ON THE NEXT DAY. THE EXERCISE THEN RESUMED AND WAS TERMINATED AT 2:40 P.M. FIVE EXERCISE WEAKNESS WERE IDENTIFIED INVOLVING THE FAILURE TO FULLY MEET EXERCISE OBJECTIVES IN THE AREAS OF EMERGENCY MANAGEMENT, ACCIDENT ASSESSMENT, PROTECTIVE ACTION RECOMMENDATIONS, AND THE MEDICAL DRILL. THEREFORE, THE LICENSEE COMMITTED TO AN EARLY DEMONSTRATION OF CORRECTIVE ACTIONS BY CONDUCTING A SITE ONLY MEDICAL DRILL; A PARTIAL CMC STAFF TABLE TOP EXERCISE USING THE FEBRUARY 20, 1988, SCENARIO AS THE TRAINING MEDIA; AND THE FULL MANNING AND PARTICIPATION OF THE CMC STAFF IN THE FORTHCOMING MCGUIRE EMERGENCY EXERCISE. ALTHOUGH CORRECTIVE ACTIONS ARE REQUIRED, THE EXERCISE WAS CONSIDERED SUCCESSFUL IN THAT THE LICENSEE DEVELOPED A PLAUSIBLE AND CHALLENGING SCENARIO THAT IDENTIFIED TRAINING WEAKNESSES. THE LICENSEE'S TIMELY AND AGGRESSIVE RESPONSE TO SECURING CORRECTIVE ACTIONS IS INDICATIVE OF MANAGEMENT SUPPORT TO AN EFFECTIVE EMERGENCY PREPAREDNESS PROGRAM.

INSPECTION JANUARY 26 - FEBRUARY 25 (88-08): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF REVIEW OF PLANT OPERATIONS; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS; REFUELING ACTIVITIES AND MEETING WITH LOCAL OFFICIALS. OF THE SEVEN (7) AREAS INSPECTED, TWO APPARENT VIOLATIONS WERE IDENTIFIED IN TWO AREAS. (FAILURE TO FOLLOW PROCEDURES RESULTING IN TWO INADVERTENT SAFETY INJECTIONS; AND INADEQUATE CORRECTIVE ACTION INVOLVING MOUNTING HARDWARE MODIFICATION FOR ROTORK ACTUATORS.

INSPECTION SUMMARY

INSPECTION FEBRUARY 2-4 (88-09): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF STEAM GENERATOR TUBE PROBLEMS (UNIT 2). ONE VIOLATION WAS IDENTIFIED - FAILURE TO ESTABLISH ADEQUATE MEASURES TO CONTROL ET TESTING OF STEAM GENERATOR TUBES.

INSPECTION FEBRUARY 8-12 (88-10): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED THE AREAS OF: TESTING AND MAINTENANCE; LOCKS, KEYS, AND COMBINATIONS; PHYSICAL BARRIERS PROTECTED AREA; LIGHTING; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL AND PACKAGES; AND PERSONNEL TRAINING AND QUALIFICATION - GENERAL REQUIREMENTS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

INSPECTION FEBRUARY 16-18 (88-11): THIS ROUTINE, UNANNOUNCED ENTAILED THE REVIEW OF PROCEDURES, RECORDS, AND OPERATIONS FOR THE CONTROL, AND ACCOUNTABILITY OF SPECIAL NUCLEAR MATERIAL. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 26 - MARCH 25 (88-13): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED ON SITE INSPECTING IN THE AREAS OF REVIEW OF PLANT OPERATIONS; SURVEILLANCE OBSERVATION; MAINTENANCE OBSERVATION; REVIEW OF LICENSEE NONROUTINE EVENT REPORTS; FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS AND STARTUP ACTIVITIES (UNIT 2). OF THE SIX (6) AREAS INSPECTED, ONE APPARENT VIOLATION WAS IDENTIFIED IN ONE AREA. (FAILURE TO FOLLOW TECHNICAL SPECIFICATION ADMINISTRATIVE REQUIREMENTS FOR APPROVAL OF MODIFICATIONS.

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: FEBRUARY 26 - MARCH 25, 1988 +

INSPECTION REPORT NO: 50-414/88-13 +

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* CATAWBA 2 *
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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/20/88	02/19/88	BLACKOUT INDUCED LOAD SEQUENCER ACTUATION DUE TO PERSONNEL ERROR AND A MANAGEMENT DEFICIENCY
88-002	01/28/88	02/26/88	TECH SPEC VIOLATION BECAUSE OF STEAM GENERATOR TUBE DEGRADATION DUE TO A PERSONNEL ERROR AND A MANAGEMENT DEFICIENCY
88-003	02/09/88	03/10/88	SAFETY INJECTION DUE TO PERSONNEL ERROR
88-004	02/07/88	03/11/88	FOREIGN OBJECTS ON STEAM GENERATOR TUBESHEETS RESULT IN TUBE DAMAGE DUE TO A MANUFACTURING DEFICIENCY
88-005	02/17/88	03/18/88	AUXILIARY FEEDWATER AUTOSTART DURING TESTING DUE TO UNKNOWN CAUSE AND PROCEDURAL DEFICIENCY
88-006	02/19/88	03/18/88	FEEDWATER ISOLATION DURING RTD TESTING DUE TO A PERSONNEL ERROR
88-007	02/22/88	03/23/88	AUXILIARY FEEDWATER SYSTEM ACTUATION DUE TO DEBRIS IN FEEDWATER PUMP TURBINE CONDENSER WATERBOX
88-008	02/24/88	03/25/88	TECH SPEC VIOLATION BECAUSE OF THE IMPLEMENTATION OF INADEQUATE COMPENSATORY MEASURES DUE TO A MGT DEFICIENCY
88-009	02/26/88	03/25/88	MISSED REACTOR COOLANT GROSS RADIOACTIVITY CALCULATION SURVEILLANCE DUE TO A PERSONNEL ERROR
88-010	02/03/88	03/31/88	FAILURE OF ROTORK ACTUATOR ON RESIDUAL HEAT REMOVAL VALVE DUE TO INSTALLATION AND MANAGEMENT DEFICIENCIES

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2894

5. Nameplate Rating (Gross MWe):

6. Design Electrical Rating (Net MWe): 933

7. Maximum Dependable Capacity (Gross MWe): 933

8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	3,082.3
13. Hours Reactor Critical	435.3	1,875.3	2,773.6
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	430.5	1,870.5	2,768.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,130,339	5,085,874	7,231,374
18. Gross Elec Ener (MWH)	375,529	1,703,040	2,419,690
19. Net Elec Ener (MWH)	354,986	1,628,016	2,312,119
20. Unit Service Factor	57.9	85.6	89.8
21. Unit Avail Factor	57.9	85.6	89.8
22. Unit Cap Factor (MDC Net)	51.3	80.2	80.7
23. Unit Cap Factor (DER Net)	51.1	79.9	80.4
24. Unit Forced Outage Rate	.0	.0	.0
25. Forced Outage Hours	.0	.0	.0

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

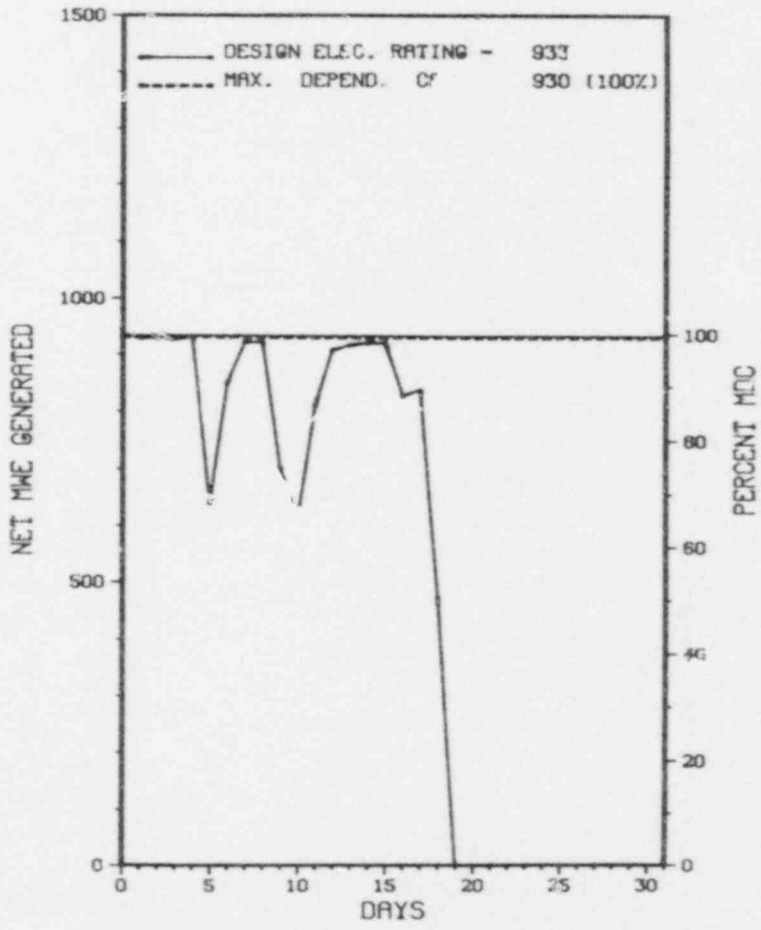
NONE

27. If Currently Shutdown Estimated Startup Date: 04/26/88

****
* CLINTON 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CLINTON 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

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* CLINTON 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurren.e
6	03/05/88	F	0.0	A	5				POWER REDUCED TO APPROXIMATELY 60% OF RATED POWER TO ALLOW REPAIR OF A LEAKING VALVE IN THE REACTOR WATER CLEANUP SYSTEM.
7	03/09/88	F	0.0	A	5				POWER REDUCED TO APPROXIMATELY 60% OF RATED POWER TO ALLOW REPAIR OF A LEAKING VALVE IN THE REACTOR WATER CLEANUP SYSTEM.
8	03/19/88	S	313.5	B	1				PLANT SHUTDOWN TO PERFORM SURVEILLANCE TESTING AND SCHEDULED MAINTENANCE.

****
* SUMMARY *
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CLINTON 1 INCURRED 2 POWER REDUCTIONS AND 1 POWER OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* CLINTON 1 *
****

FACILITY DATA

Report Period MAR 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

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

OTHER ITEMS

NONE

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 02/26/88

INSPECTION REPORT NO: 88005

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-05	021688	031888	LICENSED OPERATOR FAILURE TO RECOGNIZE INOPERABLE DRYWELL ATMOSPHERE PARTICULATE RADIOACTIVITY MONITORING SYSTEM RESULTS IN MISSED PARTICULATE GRAB SAMPLES
88-06	022988	032588	INADEQUATE ACCESS AND VISIBILITY DURING RADIATION DETECTOR ASSEMBLY RESULT IN DAMAGED DETECTOR SIGNAL CABLE AND STANDBY GAS TREATMENT SYSTEM AUTO-START
88-08	032088	040888	VALVE SEATING SURFACE WEAR BASED ON SERVICE SEEN DURING POWER ASCENSION PROGRAM AND INITIAL PLANT OPERATION RESULTS IN UNNACEPTABLE MAIN STEAM ISOLATION VALVE LEAKAGE RATES

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3250

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

6. Design Electrical Rating (Net MWe): 1030

7. Maximum Dependable Capacity (Gross MWe): 1056

8. Maximum Dependable Capacity (Net MWe): 1020

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

NONE

10. Power Level To Which Restricted, If Any (Net MWe): 920

11. Reasons for Restrictions, If Any:

ADMINISTRATIVE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	116,136.0
13. Hours Reactor Critical	711.5	2,131.3	83,968.0
14. Rx Reserve Shtdwn Hrs	.0	.0	463.0
15. Hrs Generator On-Line	705.5	2,119.0	82,356.4
16. Unit Reserve Shtdwn Hrs	.0	.0	321.0
17. Gross Therm Ener (MWH)	2,007,159	6,081,745	239,073,115
18. Gross Elec Ener (MWH)	653,610	1,982,760	78,127,430
19. Net Elec Ener (MWH)	628,050	1,905,734	75,136,732
20. Unit Service Factor	94.8	97.0	72.1
21. Unit Avail Factor	94.8	97.0	72.1
22. Unit Cap Factor (MDC Net)	82.8	85.5	64.5
23. Unit Cap Factor (DER Net)	82.0	84.7	62.4
24. Unit Forced Outage Rate	.0	1.2	8.2
25. Forced Outage Hours	.0	26.5	6,644.7

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

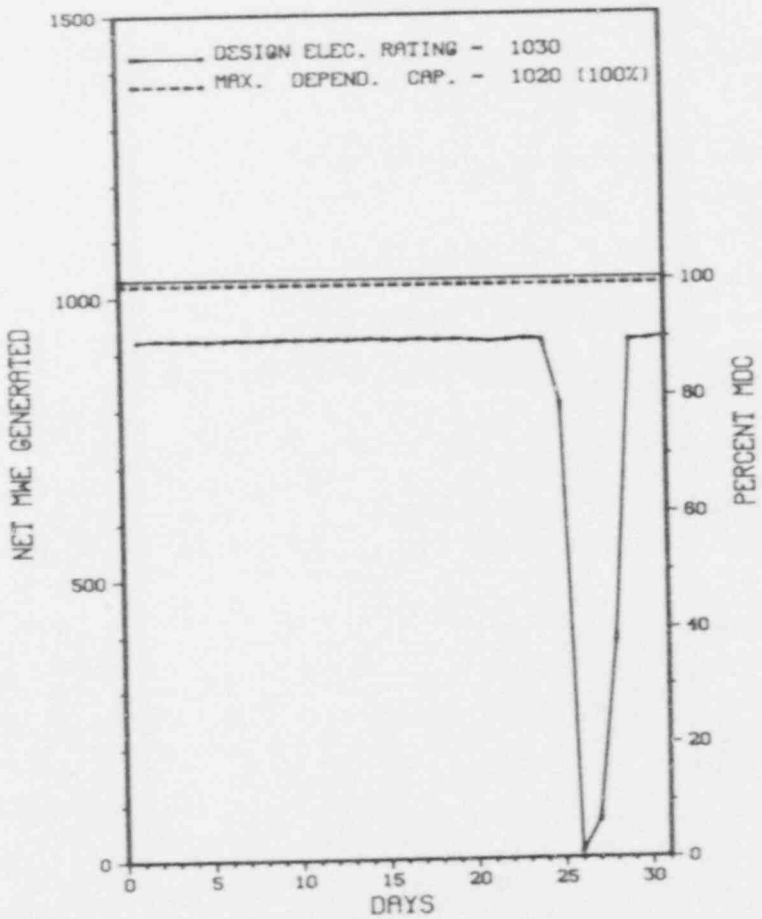
NONE

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

****
* COOK 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOK 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

COOK 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
268	03/25/88	S	38.5	B	1				UNIT 1 WAS SHUTDOWN TO MODE 3 TO PERFORM ICE CONDENSER SURVEILLANCES. THE UNIT WAS RETURNED TO SERVICE ON 3-27-88, WITH 90% POWER (ADMINISTRATIVE LIMIT) RESTORED ON 3-29-88.

SUMMARY

COOK 1 INCURRED 1 POWER OUTAGE IN MARCH FOR REASONS STATED ABOVE. CONTINUES TO OPERATE AT AN ADMINISTRATIVE IMPOSED REDUCTION OF 90% POWER.

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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* COOK 1 *
****

FACILITY DATA

Report Period MAR 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 JANUARY 25-29, 1988 (88006; 88007). ROUTINE, UNANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE DONALD C. COOK NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS PROGRAM: ACTION ON PREVIOUSLY-IDENTIFIED ITEMS; EMERGENCY PLAN ACTIVATIONS; LER REVIEW; OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM; DOSE ASSESSMENT; NOTIFICATIONS AND COMMUNICATIONS; SHIFT STAFFING AND AUGMENTATION; EMERGENCY PREPAREDNESS TRAINING; LICENSEE AUDITS; AND MAINTAINING EMERGENCY PREPAREDNESS. THE INSPECTION INVOLVED TWO NRC INSPECTORS. ONE VIOLATION WAS IDENTIFIED RELATED TO 10 CFR 50, APPENDIX E (E) (9.D.), REQUIREMENTS FOR COMMUNICATION TESTING.

INSPECTION ON FEBRUARY 10-18, 1988 (88010; 88011). ROUTINE, ANNOUNCED INSPECTION OF: (1) THE CHEMISTRY PROGRAM, INCLUDING PROCEDURES, ORGANIZATION, AND TRAINING; (2) PRIMARY AND SECONDARY SYSTEMS WATER QUALITY CONTROL PROGRAM; (3) QUALITY ASSURANCE/QUALITY CONTROL PROGRAM IN THE LABORATORY; AND (4) NONRADIOLOGICAL CONFIRMATORY MEASUREMENTS. NO VIOLATION OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

FAILURE TO ADEQUATELY IMPLEMENT A COMPENSATORY MEASURE.

(8800 4)

ENFORCEMENT SUMMARY

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.

LAST IE SITE INSPECTION DATE: 03/31/88

INSPECTION REPORT NO: 88013

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-24	122988	031488	DEFICIENT DESIGN RESULTS IN THE FAILURE TO PROVIDE PROPER LOCAL SHUTDOWN AND INDICATION PANEL FUSE/BREAKER COORDINATION

1. Docket: 50-316 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1333 X 0.85 = 1133

6. Design Electrical Rating (Net MWe): 1100

7. Maximum Dependable Capacity (Gross MWe): 1100

8. Maximum Dependable Capacity (Net MWe): 1060

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

NONE

10. Power Level To Which Restricted, If Any (Net MWe): 864

11. Reasons for Restrictions, If Any:

ADMINISTRATIVE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	89,832.0
13. Hours Reactor Critical	744.0	2,184.0	63,056.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,184.0	61,679.2
16. Unit Reserve Shtdwn Hrs	.0	.0	2.2
17. Gross Therm Ener (MWH)	2,038,466	5,978,340	190,557,578
18. Gross Elec Ener (MWH)	666,170	1,955,650	61,432,090
19. Net Elec Ener (MWH)	639,969	1,878,687	59,142,168
20. Unit Service Factor	100.0	100.0	70.6
21. Unit Avail Factor	100.0	100.0	70.6
22. Unit Cap Factor (MDC Net)	81.1	81.2	63.8
23. Unit Cap Factor (DER Net)	78.2	78.2	62.3
24. Unit Forced Outage Rate	.0	.0	14.6
25. Forced Outage Hours	.0	.0	10,497.2

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

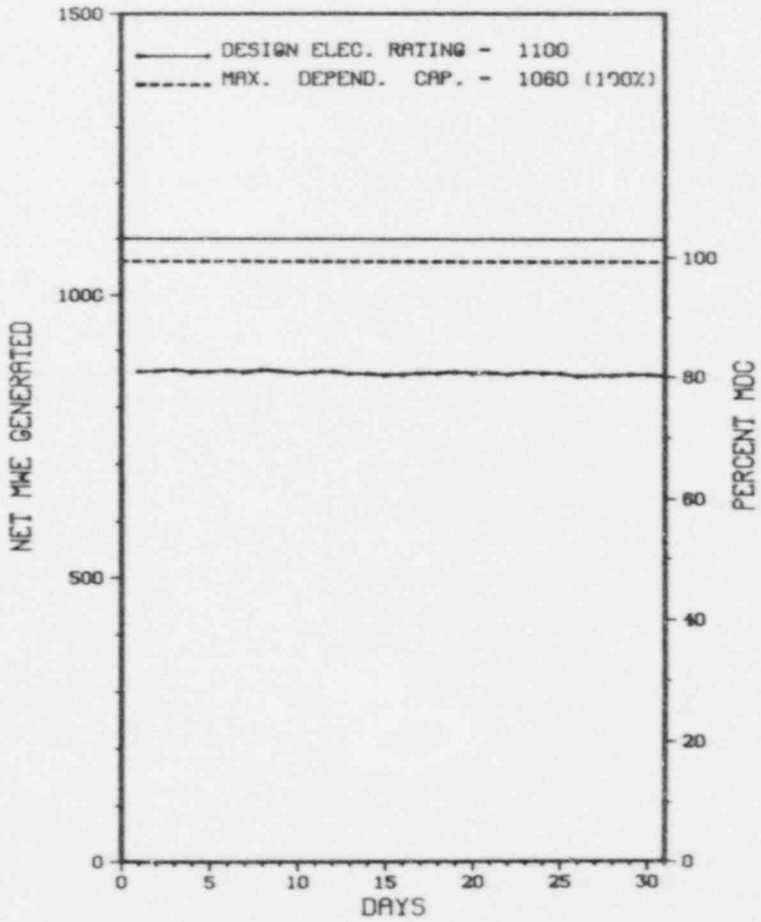
S.G. REPLACEMENT APRIL 23, 1988 - DURATION OF 225 DAYS.

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOK 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

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

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

****
* SUMMARY *
****

COOK 2 OPERATED AT A NOMINAL 80% ADMINISTRATIVELY IMPOSED POWER LEVEL DURING MARCH. INCURRED NO OUTAGES OR 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....MICHIGAN

COUNTY.....BERRIEN

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...11 MI S OF
BENTON HARBOR, MI

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MARCH 10, 1978

DATE ELEC ENER 1ST GENER...MARCH 22, 1978

DATE COMMERCIAL OPERATE....JULY 1, 1978

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....LAKE MICHIGAN

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....INDIANA MICHIGAN POWER CO.

CORPORATE ADDRESS.....1 RIVERSIDE PLAZA
COLUMBUS, OHIO 43216

CONTRACTOR
ARCHITECT/ENGINEER.....AMERICAN ELEC. POWER SERVICE CORP.

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

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

TURBINE SUPPLIER.....BROWN BOVERI

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....B. JORGENSEN

LICENSING PROJ MANAGER.....J. STANG
DOCKET NUMBER.....50-316

LICENSE & DATE ISSUANCE....DPR-74, DECEMBER 23, 1977

PUBLIC DOCUMENT ROOM.....MAUDE PRESTON PALENSKE MEMORIAL LIBRARY
500 MARKET STREET
ST. JOSEPH, MICHIGAN 49085

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON JANUARY 25-29, 1988 (88006; 88007). ROUTINE, UNANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE DONALD C. COOK NUCLEAR POWER PLANT EMERGENCY PREPAREDNESS PROGRAM: ACTION ON PREVIOUSLY-IDENTIFIED ITEMS; EMERGENCY PLAN ACTIVATIONS; LER REVIEW; OPERATIONAL STATUS OF THE EMERGENCY PREPAREDNESS PROGRAM; DOSE ASSESSMENT; NOTIFICATIONS AND COMMUNICATIONS; SHIFT STAFFING AND AUGMENTATION; EMERGENCY PREPAREDNESS TRAINING; LICENSEE AUDITS; AND MAINTAINING EMERGENCY PREPAREDNESS. THE INSPECTION INVOLVED TWO NRC INSPECTORS. ONE VIOLATION WAS IDENTIFIED RELATED TO 10 CFR 50, APPENDIX E (E) (9.D.), REQUIREMENTS FOR COMMUNICATION TESTING.

INSPECTION ON FEBRUARY 10-18, 1988 (88010; 88011). ROUTINE, ANNOUNCED INSPECTION OF: (1) THE CHEMISTRY PROGRAM, INCLUDING PROCEDURES, ORGANIZATION, AND TRAINING; (2) PRIMARY AND SECONDARY SYSTEMS WATER QUALITY CONTROL PROGRAM; (3) QUALITY ASSURANCE/QUALITY CONTROL PROGRAM IN THE LABORATORY; AND (4) NONRADIOLOGICAL CONFIRMATORY MEASUREMENTS. NO VIOLATION OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

FAILURE TO ADEQUATELY IMPLEMENT A COMPENSATORY MEASURE.

(8800 4)

ENFORCEMENT SUMMARY

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT OPERATED NORMALLY THROUGHOUT THE MONTH.

LAST IE SITE INSPECTION DATE: 03/31/88

INSPECTION REPORT NO: 88015

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-02	020588	030488	SURVEILLANCE PROCEDURE DEFICIENT DUE TO COGNITIVE PERSONNEL ERROR WHEN REVIEWING T.S. AMENDMENT FOR IMPACT ON PROCEDURES

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	120,553.0
13. Hours Reactor Critical	100.5	1,297.0	91,304.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	100.5	1,281.2	89,825.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	189,168	2,629,440	177,260,147
18. Gross Elec Ener (MWH)	62,995	872,027	56,931,108
19. Net Elec Ener (MWH)	60,597	840,096	54,868,720
20. Unit Service Factor	13.5	58.7	74.5
21. Unit Avail Factor	13.5	58.7	74.5
22. Unit Cap Factor (MDC Net)	10.7	50.3	59.6
23. Unit Cap Factor (DER Net)	10.5	49.4	58.5
24. Unit Forced Outage Rate	.0	16.8	4.9
25. Forced Outage Hours	.0	259.3	3,953.6

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

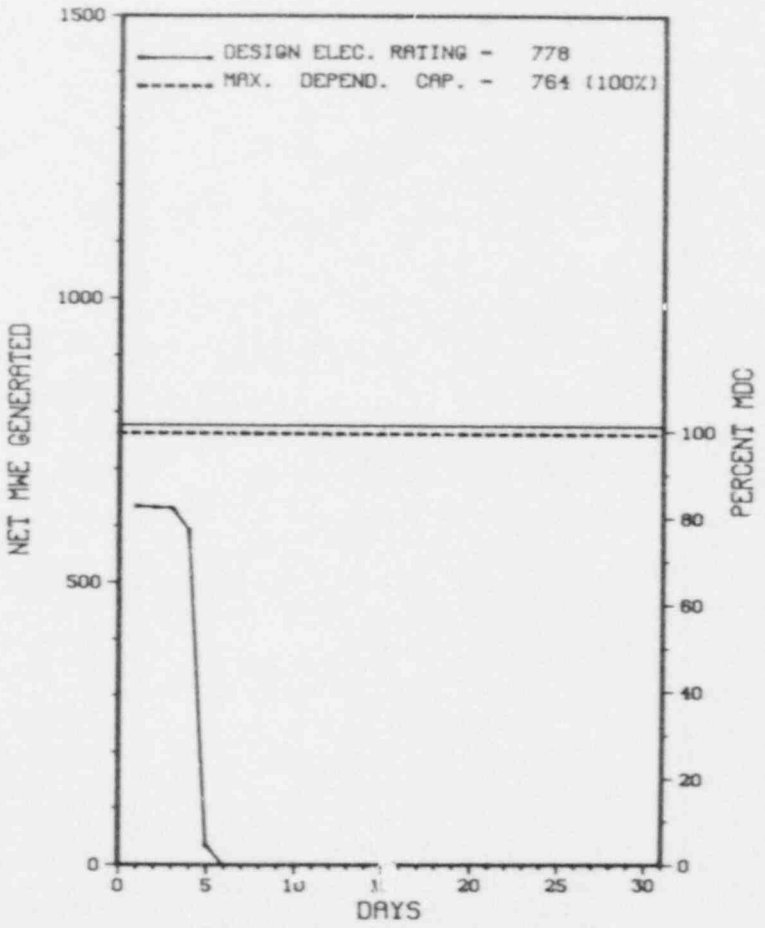
NONE

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

****
* COOPER STATION *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

COOPER STATION



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* COOPER STATION *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	03/05/88	S	643.5	C	2				REACTOR SHUTDOWN FOR 1988 (EOC11) REFUELING AND MAINTENANCE OUTAGE.

****
* SUMMARY *
****

COOPER SHUTDOWN ON MARCH 5 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* COOPER STATION *
****

FACILITY DATA

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

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED FEB 1, THROUGH FEB 29, 1988 (88-06) ROUTINE, UNANNOUNCED INSPECTION OF LICENSE ACTIONS ON PREVIOUS INSPECTION FINDINGS, OPERATIONAL SAFETY VERIFICATION, LICENSE EVENT REPORT FOLLOWUP, IE BULLETIN 84-02 FOLLOWUP, MONTHLY SURVEILLANCE AND WITHIN THE AREAS INSPECTED, THREE VIOLATIONS WERE IDENTIFIED (FAILURE TO VERIFY JET PUMP OPERABILITY, FAILURE TO FOLLOW FIRE PROTECTION PROCEDURES, AND FAILURE TO PERFORM ADEQUATE REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

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

10 CFR 50.54(Q) REQUIRES THAT A LICENSEE SHALL FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICHMEET 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

ENFORCEMENT SUMMARY

AND LOCAL GOVERNMENTS SHALL BE AVAILABLE TO THE APPROPRIATE STATE AND LOCAL COVERMENTS. 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 GOVERMENT 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: FEB. 29, 1988

INSPECTION REPORT NO: 50-298/88-06

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-002	01/28/88	02/26/88	REACTOR SCRAM DUE TO APRM HIGH FLUX RESULTING FROM AN EQUIPMENT PROBLEM WHEN RESTORING A REACTOR RECIRCUALTION PUMP TO SERVICE
88-003	01/28/88	03/09/88	RHR PUMP "B" MOTOR GROUND RESULTING FROM WORN STATOR FIELD COIL INSULATION DISCOVERED SUBSEQUENT TO AN UNPLANNED REACTOR TRIP.
88-S01	03/08/88	03/10/88	SAFEGUARDS EVENT

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2544

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

6. Design Electrical Rating (Net MWe): 825

7. Maximum Dependable Capacity (Gross MWe): 860

8. Maximum Dependable Capacity (Net MWe): 821

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	96,888.0
13. Hours Reactor Critical	697.9	1,913.0	61,239.8
14. Rx Reserve Shtdwn Hrs	.0	.0	1,275.5
15. Hrs Generator On-Line	670.4	1,847.6	59,863.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,575,214	4,359,349	134,106,537
18. Gross Elec Ener (MWH)	542,742	1,501,760	45,875,875
19. Net Elec Ener (MWH)	516,080	1,427,620	43,561,202
20. Unit Service Factor	90.1	84.6	61.8
21. Unit Avail Factor	90.1	84.6	61.8
22. Unit Cap Factor (MDC Net)	84.5	79.6	54.8
23. Unit Cap Factor (DER Net)	84.1	79.2	54.5
24. Unit Forced Outage Rate	7.9	4.8	22.8
25. Forced Outage Hours	57.7	93.9	17,728.9

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

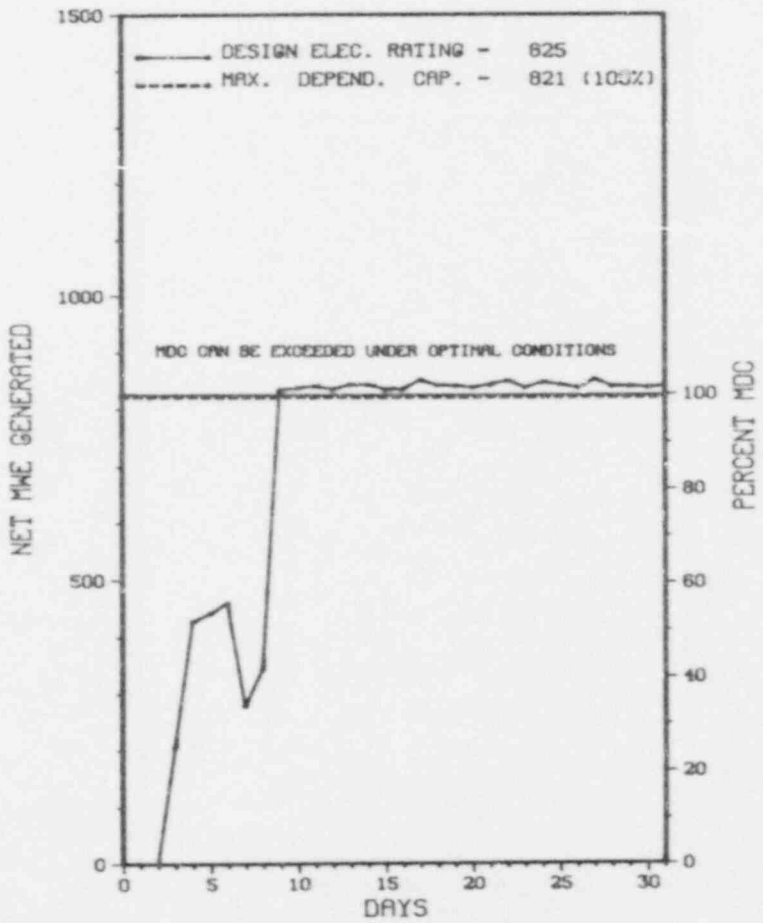
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

CRYSTAL RIVER 3



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

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

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-4	02/28/88	F	57.7	A	4	88-006	CH	VALVOP	CONTINUED OUTAGE RESULTING FROM A REACTOR TRIP ON HIGH RCS PRESSURE. A BROKEN STEM NUT CAUSED THE MAIN FEEDWATER BLOCK VALVE (FWV-29) TO CLOSE.
88-5	03/03/88	S	0.0	A	5		CH	VALVOP	OPERATED AT REDUCED LOAD OF APPROXIMATELY 60% DUE TO WORK BEING PERFORMED ON FWV-29.
88-6	03/07/88	S	15.9	B	1		CH	VALVOP	THE PLANT WAS TAKEN OFF-LINE TO COMPLETE TESTING OF THE FEEDWATER BLOCK VALVE REPAIRS.

****
* SUMMARY *
****

CRYSTAL RIVER 3 ENTERED MONTH SHUTDOWN. SUBSEQUENTLY RETURNED TO POWER. INCURRED 1 POWER REDUCTION AND 1 OUTAGE 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

FACILITY DATA

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 DECEMBER 16 - FEBRUARY 11 (88-01): THIS ROUTINE INSPECTION WAS CONDUCTED BY TWO RESIDENT INSPECTORS IN THE AREAS OF PLANT OPERATIONS, SECURITY, RADIOLOGICAL CONTROLS, LICENSEE EVENT REPORTS AND NONCONFORMING OPERATIONS REPORTS, FACILITY MODIFICATIONS, REVIEW OF SPECIAL REPORTS, PLANT STARTUP FROM REFUELING, COLD WEATHER PREPARATIONS, AND LICENSEE ACTION ON PREVIOUS INSPECTION ITEMS. NUMEROUS FACILITY TOURS WERE CONDUCTED AND FACILITY OPERATIONS OBSERVED. SOME OF THESE TOURS AND OBSEVATIONS WERE CONDUCTED ON BACKSHIFTS. TWO VIOLATIONS WERE IDENTIFIED. FAILURE TO IMPLEMENT PLANT PROCEDURES, AND FAILURE TO HAVE SEISMIC MONITORING INSTRUMENTATION WITH THE REQUIRED MEASUREMENT RANGE.

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.
(8806 4)

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

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 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/07/88	02/08/88	IMPROPER POSITIONING OF TURBINE BYPASS VALVES AND SLUGGISH RESPONSE RESULTS IN A LON LEVEL IN "B" SG AND SUB EF ACT
88-002	01/07/88	02/08/88	TECHNICIAN ERROR CAUSES TRIP OF OPERATING FEEDWATER PUMP RESULTS IN EMERGENCY FEEDWATER ACT AND OVERSPEED DURING EMERG FEEDWATER
88-003	01/28/88	02/29/88	PERSONNEL ERROR DURING DEVELOPMENT & REVIEW OF SURVEY PROCEDURE LEADS TO INADEQUATE SURVEY FREQUENCY FOR FOUR CONT. ISOLATION VALVES
88-004	01/28/88	03/14/88	PROCEDURAL INADEQUACY CAUSES MISSED TECH SPEC SURVEILLANCE AND DELAY IN DECLARING DETECTOR SYSTEM INOPERABLE
88-005	02/23/88	03/24/88	PERSONNEL ERROR RESULTS IN FAILURE TO ENTER ACTION STATEMENT FOR CONTAINMENT ISOLATION VALVE STROKE TIME
88-006	02/28/88	03/29/88	BROKEN STEM NUT IN "B" FEEDWATER MAIN BLOCK VALVE RESULTS IN A FEEDWATER TRANSIENT AND A SUBSEQUENT REACTOR TRIP

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	84,769.0
13. Hours Reactor Critical	221.3	1,661.3	45,143.0
14. Rx Reserve Shtdwn Hrs	.0	.0	5,050.1
15. Hrs Generator On-Line	220.5	1,580.0	43,380.8
16. Unit Reserve Shtdwn Hrs	.0	.0	1,732.7
17. Gross Therm Ener (MWH)	381,871	3,306,442	101,268,640
18. Gross Elec Ener (MWH)	123,340	1,072,485	33,448,288
19. Net Elec Ener (MWH)	111,824	998,787	31,299,434
20. Unit Service Factor	29.6	72.3	51.1
21. Unit Avail Factor	29.6	72.3	53.2
22. Unit Cap Factor (MDC Net)	17.5	53.2	42.9
23. Unit Cap Factor (DER Net)	16.6	50.5	40.7
24. Unit Forced Outage Rate	.0	.0	32.5
25. Forced Outage Hours	.0	.0	21,470.0

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

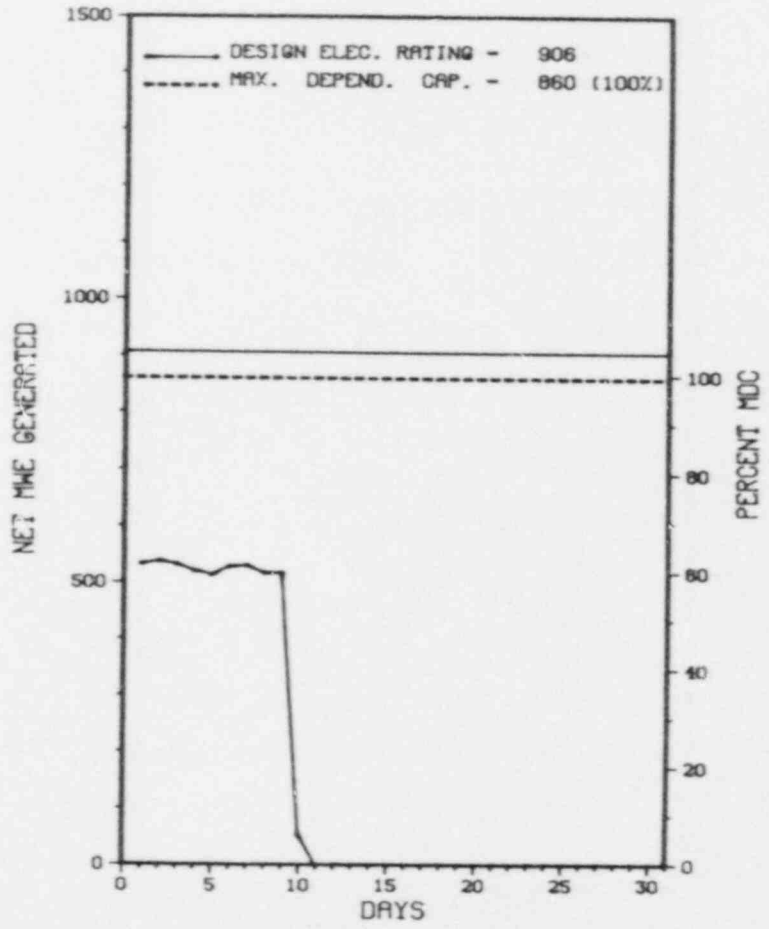
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DAVIS-BESSE 1



MARCH 1988

Report Period MAR 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	523.5	C	1				THE REFUELING OUTAGE WAS INITIATED TO PERFORM SCHEDULED MAINTENANCE AND REFUELING WORK.

SUMMARY

DAVIS-BESSE 1 SHUTDOWN IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

Report Period MAR 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. DEAGAZIO
DOCKET NUMBER.....50-346

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

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GOVERNMENT DOCUMENTS COLLECTION
2801 WEST BANCROFT AVENUE
TOLEDO, OHIO 43606

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 2-4, 9-11, 23-25, AND MARCH 7-8, 1988 (88005). ROUTINE, UNANNOUNCED SAFETY INSPECTION OF INSERVICE INSPECTION (ISI) ACTIVITIES INCLUDING REVIEW OF PROGRAM (73051), PROCEDURES (73052), OBSERVATION OF WORK ACTIVITIES (737543), AND DATE REVIEW (73755). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

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)

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

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 AT 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: 03/11/88

INSPECTION REPORT NO: 88008

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-06	022288	032388	SOFTWARE ERROR IN KAMAN RADIATION MONITORS
88-07	030488	033188	AIR OPERATED VALVE ACCUMULATOR LEAKAGE AND SUBSEQUENT DECAY HEAT REMOVAL SYSTEM INOPERABILITY

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3338

5. Nameplate Rating (Gross MWe): 1137

6. Design Electrical Rating (Net MWe): 1086

7. Maximum Dependable Capacity (Gross MWe): 1124

8. Maximum Dependable Capacity (Net MWe): 1073

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	25,438.3
13. Hours Reactor Critical	143.3	1,531.6	21,270.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	143.2	1,523.3	20,831.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	274,544	4,020,604	62,985,067
18. Gross Elec Ener (MWH)	97,100	1,355,000	21,205,832
19. Net Elec Ener (MWH)	85,502	1,273,686	20,085,388
20. Unit Service Factor	19.2	69.7	81.9
21. Unit Avail Factor	19.2	69.7	81.9
22. Unit Cap Factor (MDC Net)	10.7	54.4	73.6
23. Unit Cap Factor (DER Net)	10.6	53.7	72.7
24. Unit Forced Outage Rate	.0	3.8	3.9
25. Forced Outage Hours	.0	59.9	840.6

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

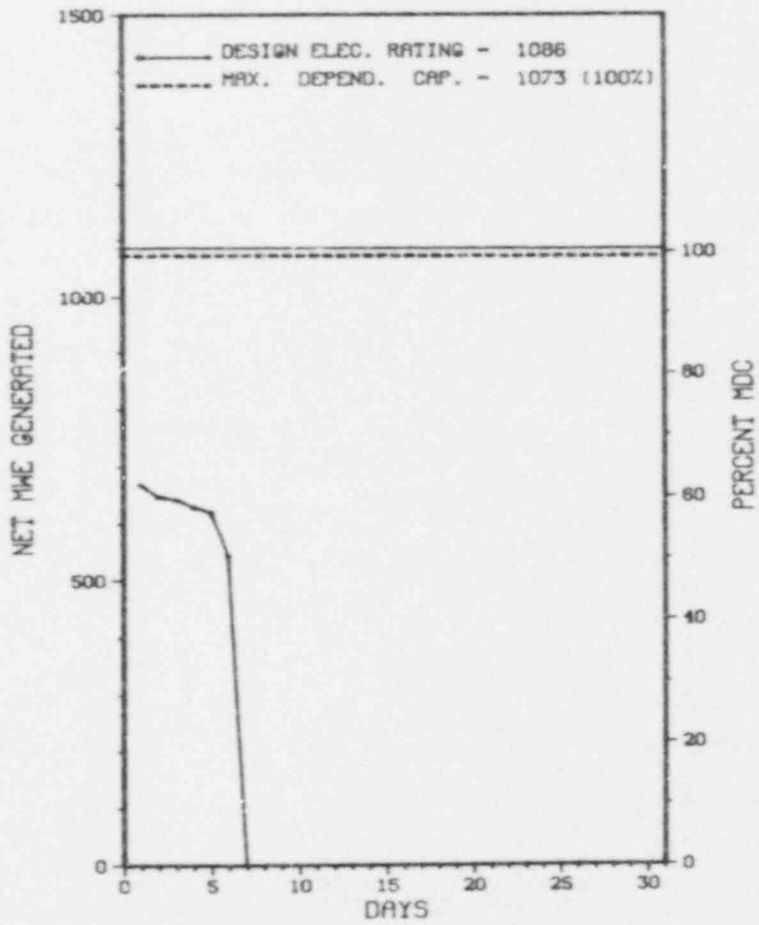
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

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

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/05/88	S	600.8	C	1				SCHEDULED REFUELING OUTAGE.

****
* SUMMARY *
****

DIABLO CANYON 1 SHUTDOWN IN MARCH TO COMMENCE 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

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) REPORT BEING PREPARED, TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JANUARY 31 - MARCH 5, 1988 (REPORT NO. 50-275/88-03) AREAS INSPECTED: THE INSPECTION INCLUDED ROUTINE INSPECTIONS OF PLANT OPERATIONS, MAINTENANCE AND SURVEILLANCE ACTIVITIES, FOLLOW-UP OF ON-SITE EVENTS, OPEN ITEMS, AND LICENSEE EVENT REPORTS, AS WELL AS SELECTED INDEPENDENT INSPECTION ACTIVITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION AND NO DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 8-22, 1988 (REPORT NO. 50-275/88-04) AREAS INSPECTED: THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED THE AREAS OF INSERVICE TESTING OF PUMPS AND VALVES. THE INSPECTION INVOLVED REVIEW OF THE PROGRAM, PROCEDURES, RECORDS, AND INTERVIEWS WITH LICENSEE PERSONNEL. DURING THIS INSPECTION, TWO INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: IN THE AREAS INSECTED, ONE VIOLATION WAS IDENTIFIED FOR NOT ESTABLISHING THE REQUIRED REFERENCE FLOW RATE DURING A PUMP TEST.

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

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

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

INSPECTION SUMMARY

+ INSPECTION ON MARCH 6 - APRIL 9, 1988 (REPORT NO. 50-275/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 03/06 - 04/09/88+

INSPECTION REPORT NO: 50-275/88-07+

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
87-05-S0	11-07-87	12-07-87	10 CFR 73.71 (C) REPORT RE: PROBLEMS WITH SECURITY UPS SYSTEM (SAFEGUARDS EVENT)
87-06-S0	12-30-87	01-29-88	10 CFR 73.71 (C) REPORT RE: UNIDENTIFIED CAPSULE PILL FOUND ON SITE (SAFEGUARDS EVENT)
88-01-S0	01-08-88	01-25-88	10 CFR 73.71 (C) REPORT RE: SECURITY FORCE MEMBER CAUSING ADVERSE MEDIA INTEREST (SAFEGUARDS EVENT)
88-05-L0	02-03-88	03-04-88	CONTAINMENT ISOLATION DUE TO ELECTRONIC NOISE & LATE ISSUANCE OF 10 CFR 50.72 REPORT

1. Docket: 50-323 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	17,997.0
13. Hours Reactor Critical	677.2	2,117.2	15,033.0
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	676.6	2,116.6	14,601.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,257,456	7,070,569	46,332,556
*8. Gross Elec Ener (MWH)	755,500	2,361,300	15,348,999
19. Net Elec Ener (MWH)	716,005	2,245,628	14,509,020
20. Unit Service Factor	90.9	96.9	81.1
21. Unit Avail Factor	90.9	96.9	81.1
22. Unit Cap Factor (MDC Net)	88.5	94.6	74.2
23. Unit Cap Factor (DER Net)	86.0	91.9	72.0
24. Unit Forced Outage Rate	9.1	3.1	9.7
25. Forced Outage Hours	67.4	67.4	1,572.8

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

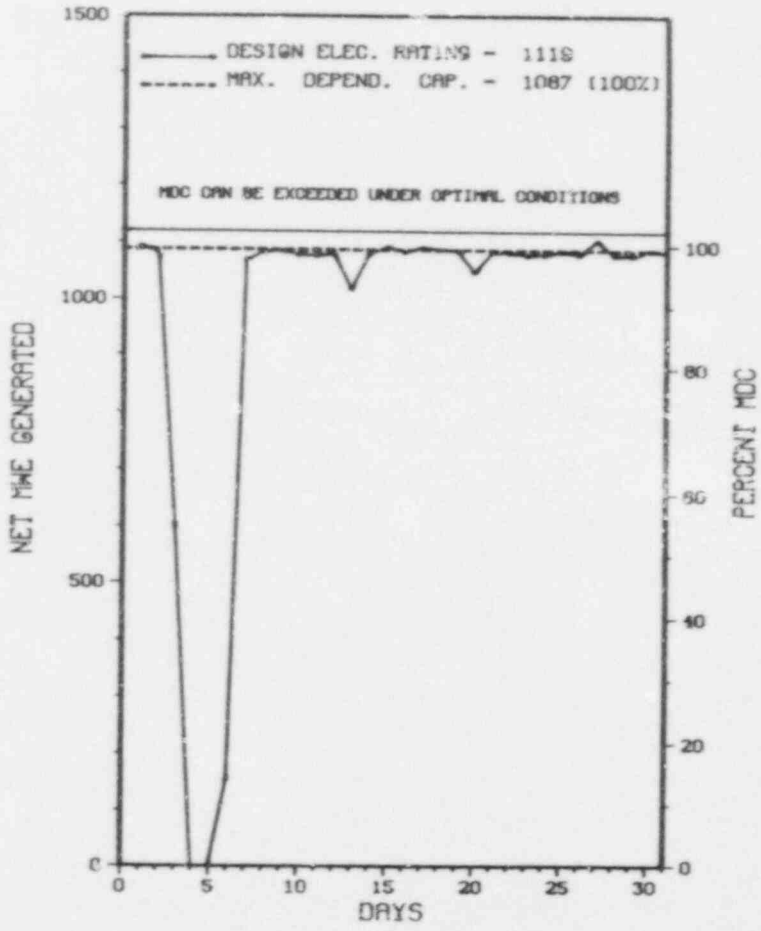
NONE

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DIABLO CANYON 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

DIABLO CANYON 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/03/88	F	67.4	A	3	88-002-00	IN	RLY	REACTOR TRIP DUE TO AN UNDETECTED FAILED RELAY DURING SEISMIC TRIP CHANNEL CALIBRATION. DURING CALIBRATION A REDUNDANT CHANNEL WAS PLACED IN THE TRIP CONDITION THEREBY SATISFYING THE 2 OUT OF 3 REQUIRED LOGIC WITH ONE RELAY FAILED AND ONE IN TEST. THE FAILED RELAY WAS REPLACED AND A DESIGN CHANGE REQUESTED TO ADD ALL RELAY OUTPUTS TO THE ANNUNCIATOR.

SUMMARY

DIABLO CANYON 2 INCURRED 1 OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

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

FACILITY DATA

Report Period MAR 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

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SAN LUIS OBISPO, CA. 93407

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-323/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 8-22, 1988 (REPORT NO. 50-323/88-03) AREAS INSPECTED: THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED THE AREAS OF INSERVICE TESTING OF PUMPS AND VALVES. THE INSPECTION INCLUDED REVIEW OF THE PROGRAM, PROCEDURES, RECORDS AND INTERVIEWS WITH LICENSEE PERSONNEL. DURING THIS INSPECTION, TWO INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED FOR RETURNING A VALVE TO ITS ORIGINAL STROKE TIME TEST FREQUENCY, WITH NO CORRECTIVE ACTION PERFORMED.

+ INSPECTION ON JANUARY 31 - MARCH 5, 1988 (REPORT NO. 50-323/88-04) AREAS INSPECTED: THE INSPECTION INCLUDED ROUTINE INSPECTIONS OF PLANT OPERATIONS, MAINTENANCE AND SURVEILLANCE ACTIVITIES, FOLLOW-UP OF ON-SITE EVENTS, OPEN ITEMS, AND LICENSEE EVENT REPORTS, AS WELL AS SELECTED INDEPENDENT INSPECTION ACTIVITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION AND NO DEVIATIONS WERE IDENTIFIED.

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

+ INSPECTION ON MARCH 28 - APRIL 1, 1988 (REPORT NO. 50-323/88-06) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

INSPECTION SUMMARY

+ INSPECTION ON MARCH 6 - APRIL 9, 1988 (REPORT NO. 50-323/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

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

LAST IE SITE INSPECTION DATE: 03/06 - 04/09/88+

INSPECTION REPORT NO: 50-323/88-07+

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

1. Docket: 50-237 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: D.C. MAXWELL (815) 942-2920 X 489
4. Licensed Thermal Power (MWt): 2527
5. Nameplate Rating (Gross MWe): 920 X 0.9 = 828
6. Design Electrical Rating (Net MWe): 794
7. Maximum Dependable Capacity (Gross MWe): 812
8. Maximum Dependable Capacity (Net MWe): 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

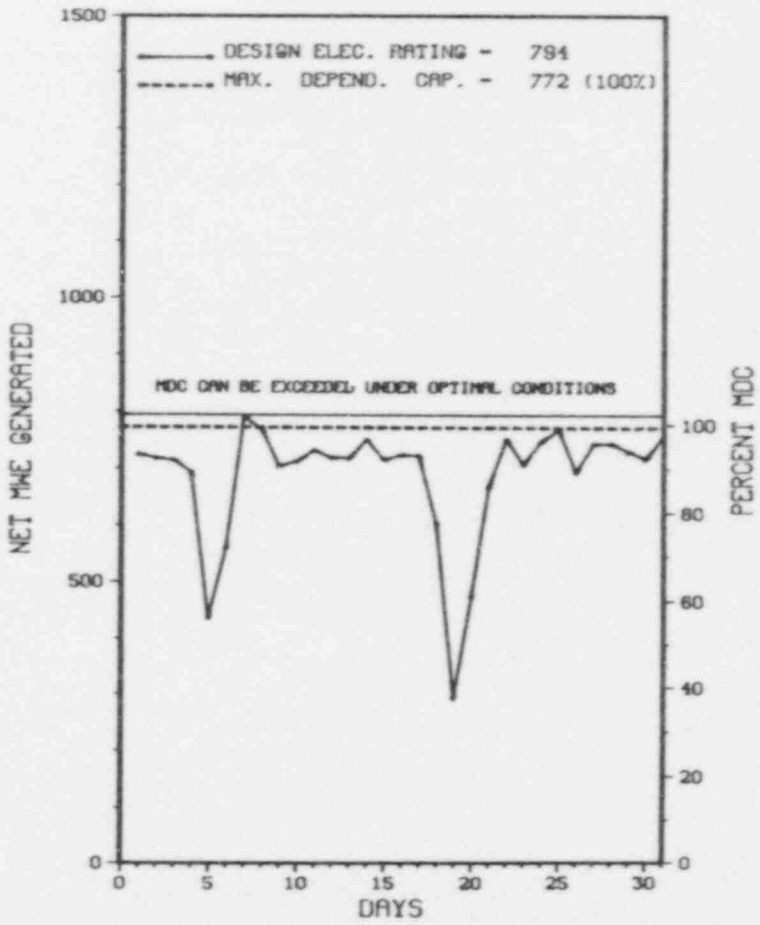
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	156,768.0
13. Hours Reactor Critical	744.0	2,184.0	118,756.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,184.0	113,277.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,676,477	4,979,460	232,998,283
18. Gross Elec Ener (MWH)	533,397	1,595,183	74,535,153
19. Net Elec Ener (MWH)	508,386	1,523,041	70,459,219
20. Unit Service Factor	100.0	100.0	72.3
21. Unit Avail Factor	100.0	100.0	72.3
22. Unit Cap Factor (MDC Net)	88.5	90.3	58.2
23. Unit Cap Factor (DER Net)	86.1	87.8	56.6
24. Unit Forced Outage Rate	.0	.0	11.5
25. Forced Outage Hours	.0	.0	7,157.0

26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):
BATTERY DISCHARGE TEST, MAY, 1988. DURATION 1 WEEK
27. If Currently Shutdown Estimated Startup Date: N/A

DRESDEN 2

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DRESDEN 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* DRESDEN 2 *
****

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

NONE

****
* SUMMARY *
****

DRESDEN II OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* DRESDEN 2 *
****

FACILITY DATA

Report Period MAR 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

INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

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)

ENFORCEMENT SUMMARY

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

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	021188	030388	APPARENT OVEREXPOSURE OF 18 YEAR OLD CONTRACTOR PERSONNEL IN 1972, 1976 AND 1977 DUE TO PROCEDURAL DEFICIENCY
88-04	022188	031588	INOPERABLE CONTROL ROD DRIVE (CRD) E-9 FOUND ELECTRICALLY ARMED DUE TO PERSONNEL ERROR

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2527

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

6. Design Electrical Rating (Net MWe): 794

7. Maximum Dependable Capacity (Gross MWe): 812

8. Maximum Dependable Capacity (Net MWe): 773

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	146,353.0
13. Hours Reactor Critical	626.4	2,066.4	105,474.8
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	626.0	2,066.0	100,913.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,455,641	4,792,721	206,168,243
18. Gross Elec Ener (MWH)	469,867	1,557,623	66,588,865
19. Net Elec Ener (MWH)	448,461	1,490,722	63,068,542
20. Unit Service Factor	84.1	94.6	69.0
21. Unit Avail Facto:	84.1	94.6	69.0
22. Unit Cap Factor (MDC Net)	78.0	88.3	55.7
23. Unit Cap Factor (DER Net)	75.9	86.0	54.3
24. Unit Forced Outage Rate	.0	.0	12.6
25. Forced Outage Hours	.0	.0	9,463.9

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

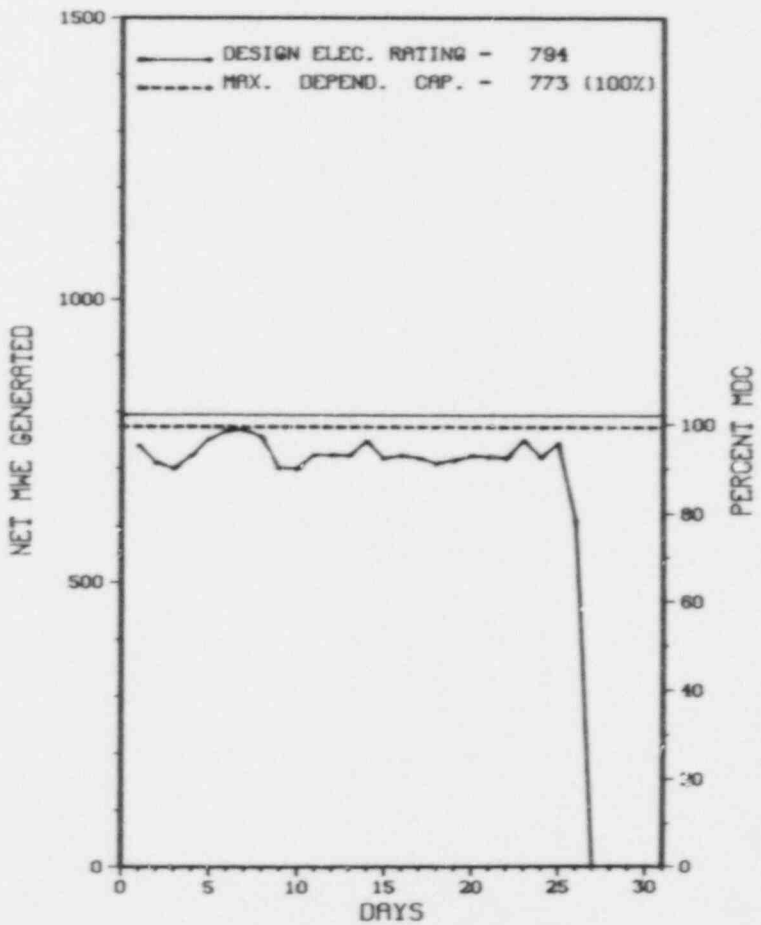
NONE

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

****
* DRESDEN 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DRESDEN 3



MARCH 1988

Report Period MAR 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	118.0	C	1				UNIT OFF-LINE MANUALLY TO ITS 10TH REFUELING OUTAGE.

****
* SUMMARY *
****

DRESDEN III ENDED MONTH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* DRESDEN 3 *
****

FACILITY DATA

Report Period MAR 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.....L. MCGREGOR

LICENSING PROJ MANAGER.....M. GROTENHUIS
DOCKET NUMBER.....50-249

LICENSE & DATE ISSUANCE....DPR-25, MARCH 2, 1971

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604 LIBERTY STREET
MORRIS, ILLINOIS 60450

INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

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.
(8703 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

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

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

1. Docket: 50-331 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 1658

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

6. Design Electrical Rating (Net MWe): 538

7. Maximum Dependable Capacity (Gross MWe): 545

8. Maximum Dependable Capacity (Net MWe): 515

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	115,392.0
13. Hours Reactor Critical	744.0	2,184.0	82,497.8
14. Rx Reserve Shtdwn Hrs	.0	.0	172.8
15. Hrs Generator On-Line	744.0	2,184.0	80,439.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,204,568	3,549,047	103,586,328
18. Gross Elec Ener (MWH)	410,175	1,216,071	34,775,899
19. Net Elec Ener (MWH)	367,264	1,132,232	32,575,560
20. Unit Service Factor	100.0	100.0	69.7
21. Unit Avail Factor	100.0	100.0	69.7
22. Unit Cap Factor (MDC Net)	95.9	100.7	54.8
23. Unit Cap Factor (DER Net)	91.8	96.4	52.5
24. Unit Forced Outage Rate	.0	.0	14.8
25. Forced Outage Hours	.0	.0	13,917.7

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

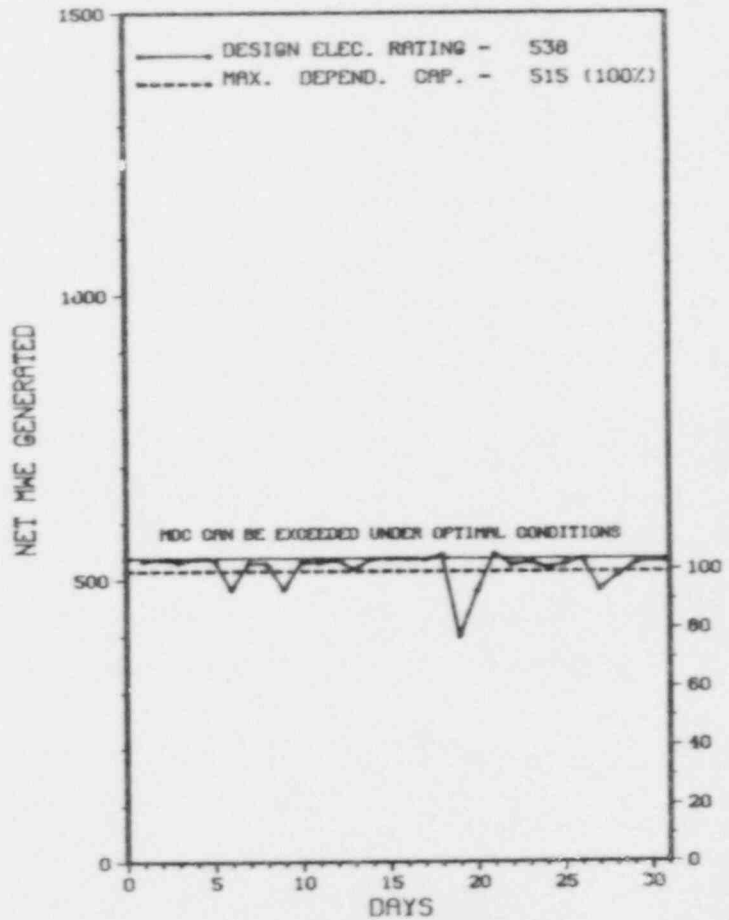
NONE

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

****
* DUANE ARNOLD *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

DUANE ARNOLD



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

DUANE ARNOLD

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/19/88	S	0.0	B	5				DECREASED POWER TO PERFORM AN INSPECTION OF THE STEAM TUNNEL AND A CRD EXERCISE.

SUMMARY

DUANE ARNOLD INCURRED 1 POWER REDUCTION IN MARCH TO PERFORM MAINTENANCE INSPECTIONS.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* DUANE ARNOLD *
****

FACILITY DATA

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

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

OTHER ITEMS

NONE

PLANT STATUS:

OPERATING ROUTINELY.

LAST IE SITE INSPECTION DATE: 03/22/88

INSPECTION REPORT NO: 88005

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

1. Docket: 50-348 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2652

5. Nameplate Rating (Gross MWe): 860

6. Design Electrical Rating (Net MWe): 829

7. Maximum Dependable Capacity (Gross MWe): 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	744.0	2,184.0	90,576.0
13. Hours Reactor Critical	600.8	2,040.8	67,257.5
14. Rx Reserve Shtdwn Hrs	.0	.0	3,650.7
15. Hrs Generator On-Line	600.1	2,040.1	65,865.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,581,648	5,400,491	167,823,808
18. Gross Elec Ener (MWH)	514,706	1,763,232	53,829,568
19. Net Elec Ener (MWH)	486,388	1,673,430	50,842,626
20. Unit Service Factor	80.7	93.4	72.7
21. Unit Avail Factor	80.7	93.4	72.7
22. Unit Cap Factor (MDC Net)	80.4	94.2	69.7*
23. Unit Cap Factor (DER Net)	78.9	92.4	67.7
24. Unit Forced Outage Rate	.0	.0	9.4
25. Forced Outage Hours	.0	.0	6,823.1

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

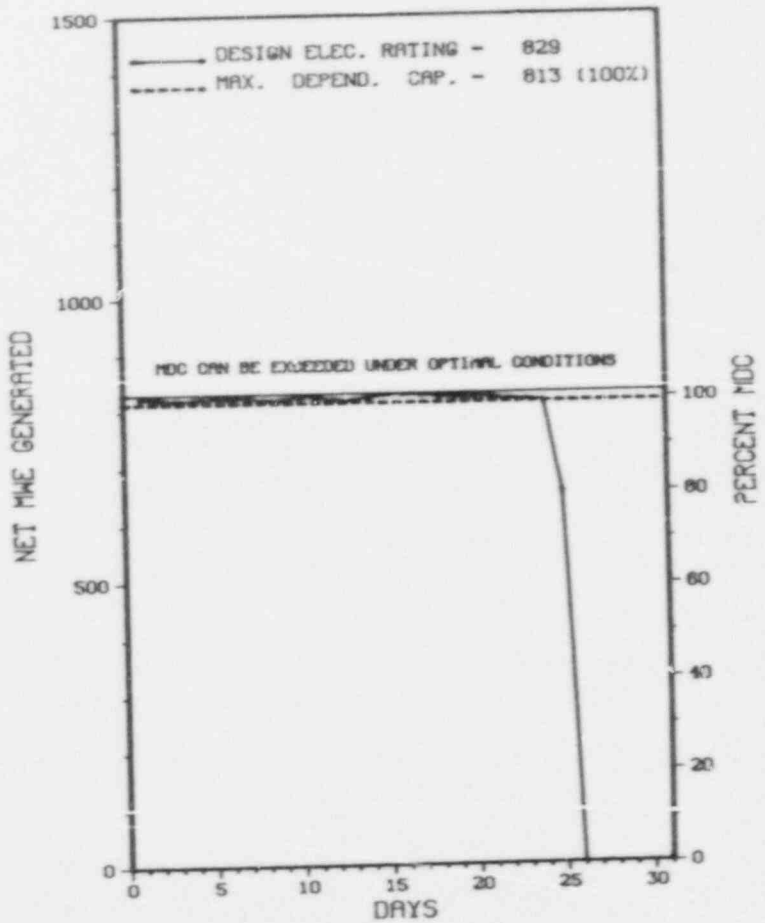
NONE

27. If Currently Shutdown Estimated Startup Date: 05/09/88

****
* FARLEY 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FARLEY 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 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	143.9	C	1				UNIT WAS TAKEN OFF LINE FOR THE CYCLE 8-9 REFUELING OUTAGE.

****
* SUMMARY *
****

FARLEY 1 BEGAN SCHEDULED REFUELING OUTAGE IN MARCH.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* FARLEY 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....ALABAMA

COUNTY.....HOUSTON

DIST AND DIRECTION FROM NEAREST POPULATION CTR...18 MI SE OF DOTHAN, ALA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...AUGUST 9, 1977

DATE ELEC ENER 1ST GENER...AUGUST 18, 1977

DATE COMMERCIAL OPERATE....DECEMBER 1, 1977

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER....CHATAHOOCHEE RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....ALABAMA POWER CO.

CORPORATE ADDRESS.....600 NORTH 18TH STREET
BIRMINGHAM, ALABAMA 35203

CONTRACTOR
ARCHITECT/ENGINEER.....SOUTHERN SERVICES INCORPORATED

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....DANIEL INTERNATIONAL

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR .....W. BRADFORD

LICENSING PROJ MANAGER.....E. REEVES
DOCKET NUMBER.....50-348

LICENSE & DATE ISSUANCE. ..NPF-2, JUNE 25, 1977

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212 W. BURDESHAW STREET
DOTHAN, ALABAMA 36302

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION DECEMBER 16-18 (87-37): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED TO FOLLOWUP ON ALLEGATIONS REGARDING THE RADIATION PROTECTION PROGRAM. ONE LICENSEE IDENTIFIED VIOLATION FOR FAILURE OF A LICENSEE EMPLOYEE TO SIGN IN ON A RADIATION WORK PERMIT (RWP).

INSPECTION FEBRUARY 29 - MARCH 4 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS TO ASSESS THE OPERATIONAL READINESS OF THE SITE EMERGENCY PREPAREDNESS PROGRAM SINCE THE MARCH 1985 INSPECTION MEET NRC REQUIREMENTS, COMMITMENTS, AND THE AFFECT OF CHANGES ON THE OVERALL STATE OF EMERGENCY PREPAREDNESS. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PROVIDE PERSONNEL DESIGNATED AS OPERATIONS SHIFT AIDE ANNUAL COMMUNICATION TRAINING.

INSPECTION FEBRUARY 11 - MARCH 10 (88-07): THIS ROUTINE, ON-SITE INSPECTION INVOLVED A REVIEW OF MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY SYSTEM INSPECTION, RADIOLOGICAL PROTECTION PROGRAM AND PHYSICAL SECURITY PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE 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

****
* FARLEY 1 *
****

ENFORCEMENT SUMMARY

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: FEBRUARY 11 - MARCH 10, 1988 +

INSPECTION REPORT NO: 50-348/88-07 +

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-004	02/19/88	03/17/88	PERSONNEL ERROR RESULTS IN REQUIRED FIRE WATCH PATROL NOT BEING ESTABLISHED WITHIN THE REQUIRED TIME
88-005	02/26/88	03/21/88	FIRE DOOR 453 INOPERABLE FOR MORE THAN SEVEN DAYS
88-006	03/01/88	03/31/88	POTENTIAL INOPERABILITY OF THE A TRAIN CHARGING PUMP DUE TO GAS ACCUMULATION
88-007	03/06/88	04/04/88	TECH SPEC 3.0.3 ENTERED WHILE SWITCHING THE ALIGNMENT OF THE BATTERY CHARGER FROM ONE TRAIN TO THE OTHER

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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: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2652

5. Nameplate Rating (Gross MWe): 860

6. Design Electrical Rating (Net MWe): 829

7. Maximum Dependable Capacity (Gross MWe): 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	744.0	2,184.0	58,489.0
13. Hours Reactor Critical	744.0	2,184.0	50,072.0
14. Rx Reserve Shtdwn Hrs	.0	.0	138.4
15. Hrs Generator On-Line	744.0	2,184.0	49,432.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,973,062	5,751,493	126,703,613
18. Gross Elec Ener (MWH)	656,162	1,917,152	41,120,246
19. Net Elec Ener (MWH)	625,996	1,827,862	38,979,600
20. Unit Service Factor	100.0	100.0	84.5
21. Unit Avail Factor	100.0	100.0	84.5
22. Unit Cap Factor (MDC Net)	102.2	101.7	81.0
23. Unit Cap Factor (DER Net)	101.5	101.0	80.4
24. Unit Forced Outage Rate	.0	.0	5.2
25. Forced Outage Hours	.0	.0	2,690.4

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

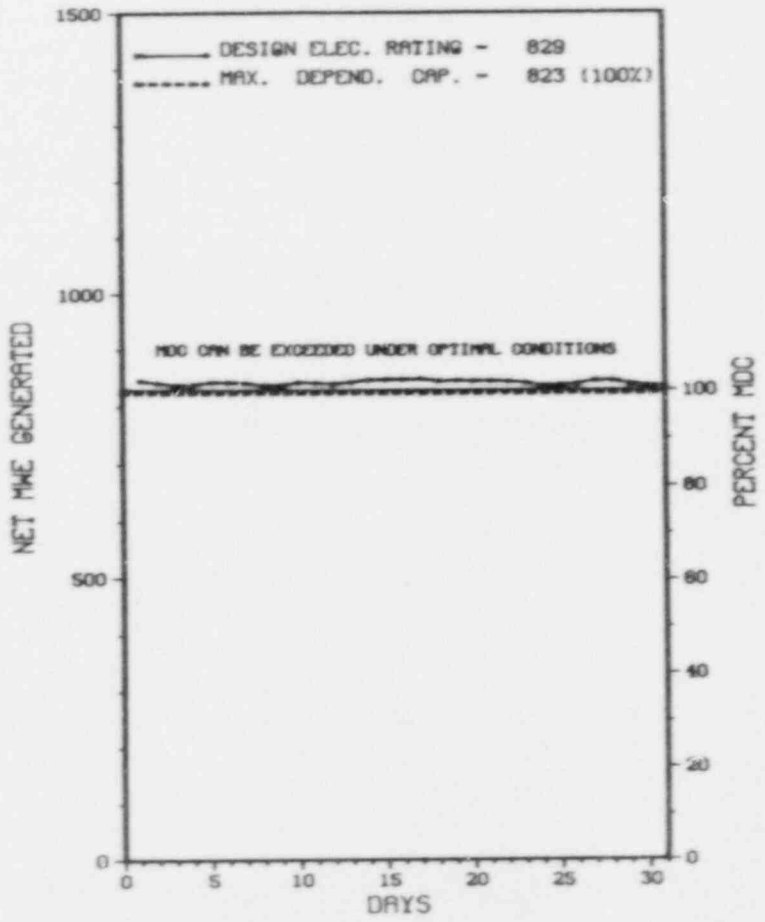
NONE

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

****
* FARLEY 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FARLEY 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* FARLEY 2 *
****

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

****
* SUMMARY *
****

FARLEY 2 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

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212 W. BURDESHAW STREET
DOTHAN, ALABAMA 36302

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION DECEMBER 16-18 (87-37): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED TO FOLLOWUP ON ALLEGATIONS REGARDING THE RADIATION PROTECTION PROGRAM. ONE LICENSEE IDENTIFIED VIOLATION FOR FAILURE OF A LICENSEE EMPLOYEE TO SIGN IN ON A RADIATION WORK PERMIT (RWP).

INSPECTION FEBRUARY 29 - MARCH 4 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS TO ASSESS THE OPERATIONAL READINESS OF THE SITE EMERGENCY PREPAREDNESS PROGRAM SINCE THE MARCH 1985 INSPECTION MEET NRC REQUIREMENTS, COMMITMENTS, AND THE AFFECT OF CHANGES ON THE OVERALL STATE OF EMERGENCY PREPAREDNESS. ONE VIOLATION WAS IDENTIFIED - FAILURE TO PROVIDE PERSONNEL DESIGNATED AS OPERATIONS SHIFT AIDE ANNUAL COMMUNICATION TRAINING.

INSPECTION FEBRUARY 11 - MARCH 10 (88-07): THIS ROUTINE, ON-SITE INSPECTION INVOLVED A REVIEW OF MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY SYSTEM INSPECTION, RADIOLOGICAL PROTECTION PROGRAM AND PHYSICAL SECURITY PROGRAM. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, FNP-0-AP-6, PROCEDURE ADHERENCE, AND FNP 0-AP-16, CONDUCT OF OPERATIONS, FNP-0-AP-52, EQUIPMENT STATUS CONTROL AND MAINTENANCE AUTHORIZATION AND FNP-0-AP-5, SURVEILLANCE PROGRAM ADMINISTRATIVE CONTROL. ON NOVEMBER

ENFORCEMENT SUMMARY

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:

LAST IE SITE INSPECTION DATE: FEBRUARY 11 - MARCH 10, 1988 +

INSPECTION REPORT NO: 50-364/88-07 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-002	02/18/88	03/21/88	TECH SPEC ENTERED WHEN A FIRE DAMPER IN THE PENETRATION ROOM FILTRATION SYSTEM COMMON SUCTION LINE WAS CLOSED
88-003	02/23/88	03/21/88	FIRE DAMPERS INOPERABLE DUE TO FAILURE TO CLOSE WITH AIR FLOW

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3292

5. Nameplate Rating (Gross MWe): 1215

6. Design Electrical Rating (Net MWe): 1093

7. Maximum Dependable Capacity (Gross MWe): 1093

8. Maximum Dependable Capacity (Net MWe): 1093

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	1,646.0	1,646.0
13. Hours Reactor Critical	.0	830.7	830.7
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	830.3	830.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	2,066,876	2,066,876
18. Gross Elec Ener (MWH)	0	670,845	670,845
19. Net Elec Ener (MWH)	0	639,601	639,601
20. Unit Service Factor	.0	50.4	50.4
21. Unit Avail Factor	.0	50.4	50.4
22. Unit Cap Factor (MDC Net)	.0	35.6	35.6
23. Unit Cap Factor (DER Net)	.0	35.6	35.6
24. Unit Forced Outage Rate	.0	7.9	7.9
25. Forced Outage Hours	.0	71.7	71.7

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

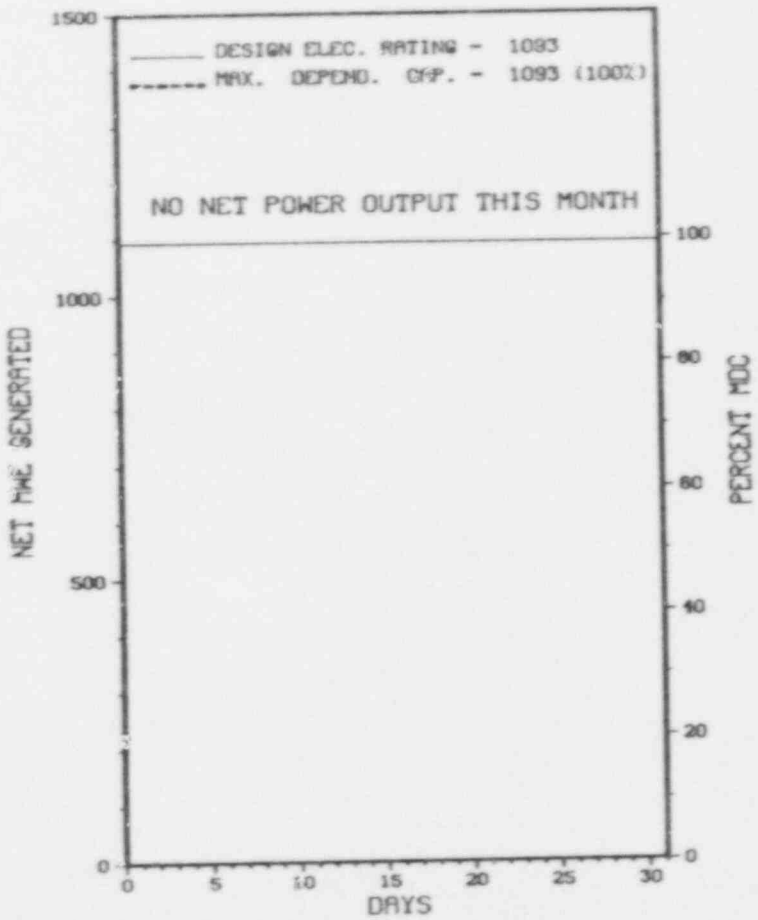
NONE

27. If Currently Shutdown Estimated Startup Date: 04/15/88

****
* FERMI 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FERMI 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* FERMI 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	02/27/88	S	744.0	B	4				CURRENTLY FERMI 2 IS IN AN LLRT OUTAGE. WORK IS CONTINUING ON SCHEDULE AND WILL BE COMPLETED APRIL 15, 1988.

****
* SUMMARY *
****

FERMI 2 REMAINED SHUTDOWN IN MARCH, IN AN LLRT 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* FERMI 2 *
****

FACILITY DATA

Report Period MAR 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
DETRIOT, 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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3700 SOUTH CUSTER ROAD
MONROE, MI. 48161

INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

OTHER ITEMS

NONE

PLANT STATUS:

PLANT IS IN COMMERCIAL OPERATION.

LAST IE SITE INSPECTION DATE: 03/11/88

INSPECTION REPORT NO: 88009

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-06	022988	033088	LOSS OF SHUTDOWN COOLING DUE TO FAILURE TO PROPERLY RESET CLOSURE LOGIC
88-07	021488	031588	DE-ENGERGIZED RADIATION MONITOR CAUSES CONTROL CENTER HEATING, VENTILATION AIR CONDITIONING TO SHIFT TO THE RECIRCULATION MODE
88-08	022988	033088	LEAKAGE IN EXCESS OF THE ALLOWABLE FOUND DURING LOCAL LEAK RATE TESTING

1. Docket: 50-333 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: J. COOK (315) 349-6569
4. Licensed Thermal Power (MWt): 2436
5. Nameplate Rating (Gross MWe): 981 X 0.9 = 883
6. Design Electrical Rating (Net MWe): 816
7. Maximum Dependable Capacity (Gross MWe): 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

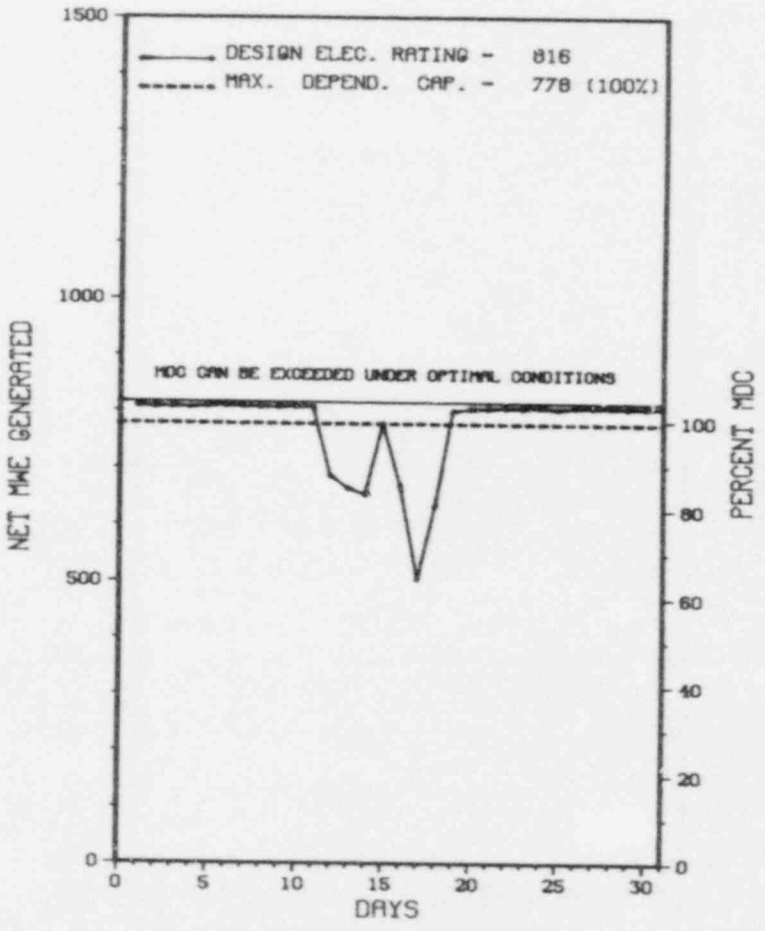
	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	111,14[illegible]
13. Hours Reactor Critical	744.0	1,802.3	81,45[illegible]
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,762.9	79,116.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,738,848	4,170,240	171,396,556
18. Gross Elec Ener (MWH)	596,590	1,429,020	58,036,420
19. Net Elec Ener (MWH)	575,080	1,377,000	56,155,470
20. Unit Service Factor	100.0	80.7	71.2
21. Unit Avail Factor	100.0	80.7	71.2
22. Unit Cap Factor (MDC Net)	99.4	80.0	65.0*
23. Unit Cap Factor (DER Net)	94.7	77.3	61.9
24. Unit Forced Outage Rate	.0	.0	11.4
25. Forced Outage Hours	.0	.0	10,337.5

26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):
REFUEL - AUGUST 6, 1988 - DURATION 75 DAYS.
27. If Currently Shutdown Estimated Startup Date: N/A

****
* FITZPATRICK *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FITZPATRICK



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

FITZPATRICK

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	03/16/88	F	0.0	A	5		JK	SC	REDUCED POWER TO REPAIR "B" REACTOR FEED PUMP SPEED CONTROL. CLEANED CLOGGED HYDRAULIC LINE, TESTED, AND RETURNED TO FULL POWER OPERATION.

SUMMARY

FITZPATRICK INCURREDD 1 POWER REDUCTION IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* FITZPATRICK *
****

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK

COUNTY.....OSWEGO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...8 MI NE OF
OSWEGO, NY

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...NOVEMBER 17, 1974

DATE ELEC ENER 1ST GENER...FEBRUARY 1, 1975

DATE COMMERCIAL OPERATE....JULY 28, 1975

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....LAKE ONTARIO

ELECTRIC RELIABILITY
COUNCIL.....:NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NEW YORK POWER AUTHORITY

CORPORATE ADDRESS.....10 COLUMBUS CIRCLE
NEW YORK, NEW YORK 10019

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

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....A. LUPTAK

LICENSING PROJ MANAGER.....H. ABELSON
DOCKET NUMBER.....50-333

LICENSE & DATE ISSUANCE....DPR-59, OCTOBER 17, 1974

PUBLIC DOCUMENT ROOM.....STATE UNIVERSITY COLLEGE OF OSWEGO
PENFIELD LIBRARY - GOVERNMENT DOCUMENTS COL
OSWEGO, NY 13126
(315) 341-2323

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 1500

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

6. Design Electrical Rating (Net MWe): 478

7. Maximum Dependable Capacity (Gross MWe): 502

8. Maximum Dependable Capacity (Net MWe): 478

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	127,249.0
13. Hours Reactor Critical	744.0	2,184.0	99,743.8
14. Rx Reserve Shtdwn Hrs	.0	.0	1,309.5
15. Hrs Generator On-Line	744.0	2,184.0	98,052.9
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	782,732	2,720,012	127,249,629
18. Gross Elec Ener (MWH)	262,560	924,842	42,209,618
19. Net Elec Ener (MWH)	246,382	876,573	40,020,641
20. Unit Service Factor	100.0	100.0	77.1
21. Unit Avail Factor	100.0	100.0	77.1
22. Unit Cap Factor (MDC Net)	69.3	84.0	67.9*
23. Unit Cap Factor (DER Net)	69.3	84.0	65.8
24. Unit Forced Outage Rate	.0	.0	3.0
25. Forced Outage Hours	.0	.0	1,857.6

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

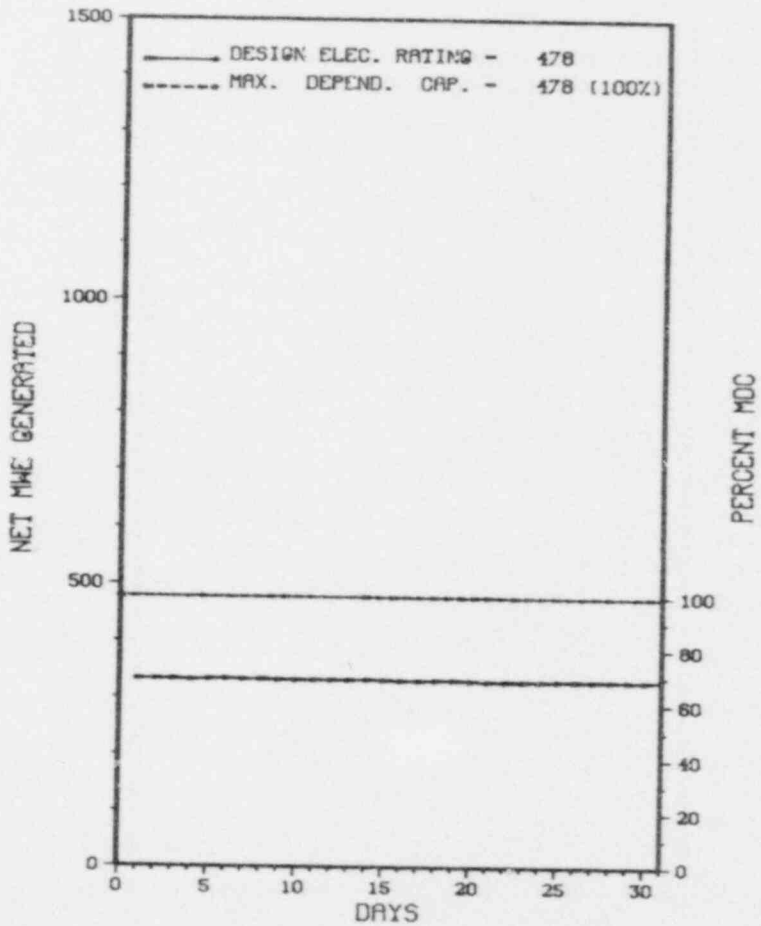
REFUELING - SEPTEMBER 2, 1988 - DURATION 76 DAYS.

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FORT CALHOUN 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

FORT CALHOUN 1

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

SUMMARY

FORT CALHOUN OPERATED AT APPROXIMATELY 70% POWER DURING MARCH AS DISCUSSED ABOVE.

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

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

FACILITY DATA

Report Period MAR 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 FEB 1-5, 1988 (88-05) SPECIAL, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM INCLUDING ORGANIZATION AND MANAGEMENT CONTROLS, TRAINING AND QUALIFICATIONS, AND RADIOLOGICAL CONTROLS. WITHIN THE AREAS INSPECTED, SIX VIOLATIONS WERE IDENTIFIED (FAILURE TO: PROVIDE A WRITTEN POLICY STATEMENT FOR RESPIRATORY USAGE, MAINTAIN LOCKED VERY HIGH RADIATION AREA DOORS, MAINTAIN KEY CONTROL OF VERY HIGH RADIATION AND PROCEDURES FOR VERY HIGH RADIATION AREA ENTRIES AND POSTING OF CONTROLLED CONTAMINATION AREA. PROGRAM WEAKNESSES ARE ALSO IDENTIFIED AS OPEN ITEMS.

INSPECTION CONDUCTED SEPT 1-30, 1987 (87-35) ROUTINE, UNANNOUNCED INSPECTION OF THE SECURITY PROGRAM. WITHIN THE AREA INSPECTED, TWO VIOLATIONS (FAILURE TO MAINTAIN THE PROTECTED AREA ISOLATION ZONE FREE OF ALL OBJECTS, AND FAILURE TO EXERCISE POSITIVE CONTROL OVER A VEHICLE INSIDE THE PROTECTED AREA), WERE IDENTIFIED.

INSPECTION CONDUCTED JAN 11-15, 1988 (88-06) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S QUALITY ASSURANCE PROGRAM INCLUDING IMPLEMENTATION WITH RESPECT TO CONTROL OF RECORDS AND DOCUMENTS PROCUREMENT CONTROLS, AND RECEIVING INSPECTION OF PURCHASED MATERIALS AND COMPONENTS. THE INSPECTION ALSO INCLUDED A REVIEW OF INSERVICE INSPECTION DATA AND RECORDS. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB 1-29, 1988 (88-07)) ROUTINE, UNANNOUNCED INSPECTION INCLUDING FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS, LICENSEE EVENT REPORT FOLLOWUP, OPERATIONAL SAFETY VERIFICATION, PLANT TOURS, SAFETY-RELATED SYSTEM WALKDOWN, MONTHLY MAINTENANCE OBSERVATIONS, MONTHLY SURVEILLANCE OBSERVATIONS, AND IN-OFFICE REVIEW OF PERIODIC AND SPECIAL REPORTS. WITHIN THE 10 AREAS INSPECTED, 2 VIOLATIONS (FAILURE TO MEET THE FIRE BRIGADE MANNING REQUIREMENTS, AND FAILURE TO FOLLOW PROCEDURES), WERE

INSPECTION SUMMARY

IDENTIFIED.

INSPECTION CONDUCTED FEB 22-26, 1988 (88-09) ROUTINE, UNANNOUNCED INSPECTION OF PENETRATION FIRE BARRIERS. WITHIN THE AREA INSPECTED, ONE POTENTIAL VIOLATION WAS IDENTIFIED (NONFUNCTIONAL PENETRATION FIRE BARRIERS PROTECTING SAFETY-RELATED AREAS).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

AN ENFORCEMENT CONFERENCE WAS HELD IN REGION IV ON MARCH 15, 1988 TO DISCUSSS MISSING ELECTRICAL CONDINT FIRE BARRIERS.

AN ENFORCEMENT CONFERENCE WAS HELD IN REGION IV ON MARCH 21, 1988 TO DISCUSS HEALTH PHYSICS RELATED ISSUES.

PLANT STATUS:

HOLDING AT 70% POWER FOR FUEL CONSERVATION

LAST IE SITE INSPECTION DATE: FEB. 29, 1988

INSPECTION REPORT NO: 50-285/88-07

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 842

5. Nameplate Rating (Gross MWe): 403 X 0.85 = 343

6. Design Electrical Rating (Net MWe): 330

7. Maximum Dependable Capacity (Gross MWe): 342

8. Maximum Dependable Capacity (Net MWe): 330

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

NONE

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

11. Reasons for Restrictions, If Any:

REANALYSIS OF SAFE SHUTDOWN COOLING.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	76,729.0
13. Hours Reactor Critical	744.0	2,149.1	35,550.8
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	739.1	2,102.3	23,683.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	455,972	1,0?9,218	11,880,631
18. Gross Elec Ener (MWH)	169,126	401,160	3,943,674
19. Net Elec Ener (MWH)	160,184	378,278	3,507,253
20. Unit Service Factor	99.3	96.3	30.9
21. Unit Avail Factor	99.3	96.3	30.9
22. Unit Cap Factor (MDC Net)	65.2	52.5	13.9
23. Unit Cap Factor (DER Net)	65.2	52.5	13.9
24. Unit Forced Outage Rate	.7	3.7	62.1
25. Forced Outage Hours	4.9	81.7	38,758.3

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

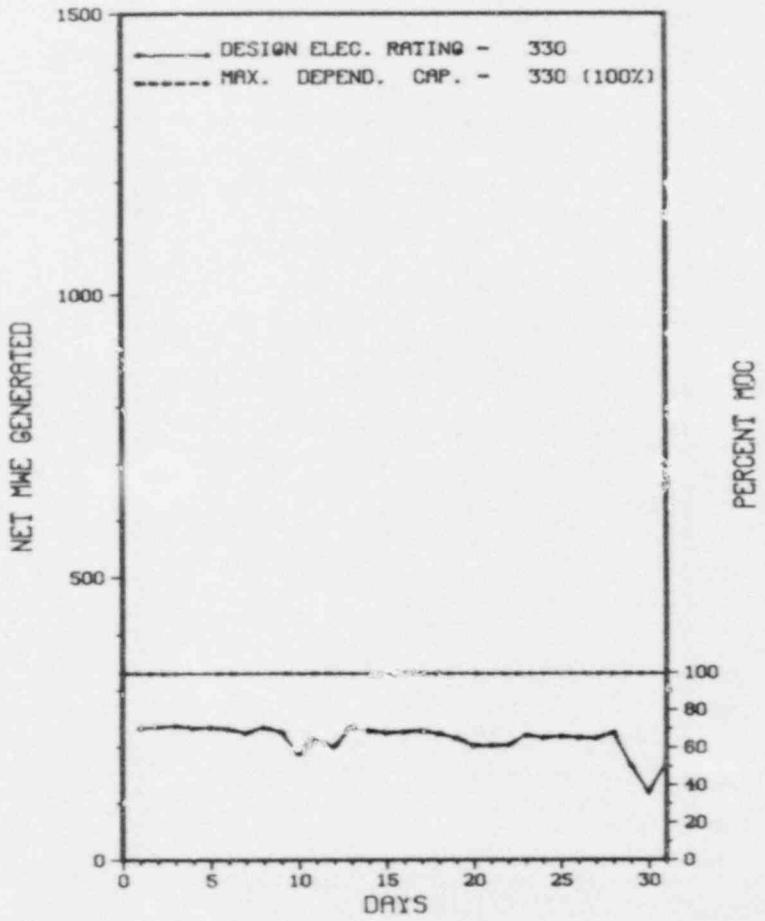
HELIUM CIRC REPAIRS-JULY 5, 1988-DURATION 91 DAYS

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

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

FORT ST VRAIN



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

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

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-06	03/29/88	F	4.9	A	9		XX	XXXXXX	TURBINE TRIP ON LOW MAIN STEAM TEMPERATURE FOLLOWING TRIP OF 'C' HELIUM CIRCULATOR.

****
* SUMMARY *
****

FORT ST. VRAIN OPERATED AT A RESTRICTED POWER LEVEL DURING MARCH AND INCURRED ONE FORCED OUTAGE 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

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

FACILITY DATA

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 1-29, 1988 (88-03) ROUTINE, UNANNOUNCED INSPECTION OF FOLLOWUP OF LICENSEE ACTION ON PREVIOUSLY IDENTIFIED INSPECTION FINDINGS, OPERATIONAL SAFETY VERIFICATION, FOLLOWUP OF UNUSUAL EVENT, ENGINEERED SAFETY FEATURES WALKDOWN, MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, RADIOLOGICAL PROTECTION, AND PHYSICAL SECURITY OBSERVATION. WITHIN THE EIGHT AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED (THE FAILURE TO IMPLEMENT AND FOLLOW PROCEDURES FOR MAINTENANCE AND OPERATIONS ACTIVITIES).

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

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

A MANAGEMENT MEETING WAS HELD IN REGION IV WITH PSCO PERSONNEL ON MAR 3, 1988, TO DISCUSS THE INTERCHANGING OF HELIUM INTO THE CORE SUPPORT FLOOR, AND THE HELIUM CIRCULATOR QA PROGRAM.

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: FEB 29, 1988

INSPECTION REPORT NO: 50-267/88-03

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

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
87-030	12/13/87	01/12/87	TECH. SPEC. SURVEILLANCE NOT PERFORMED WITHIN REQUIRED INTERVAL
87-031	12/25/87	01/25/88	HOT REHEAT TEMPERATURE SCRAM DUE TO OPERATOR INATIENTION

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: ANDREW MC NAMARA (315) 524-4446

4. Licensed Thermal Power (MWt): 1520

5. Nameplate Rating (Gross MWe): 608 X 0.85 = 517

6. Design Electrical Rating (Net MWe): 470

7. Maximum Dependable Capacity (Gross MWe): 490

8. Maximum Dependable Capacity (Net MWe): 470

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	160,824.0
13. Hours Reactor Critical	307.3	1,166.2	125,184.0
14. Rx Reserve Shtdwn Hrs	.0	.0	1,687.7
15. Hrs Generator On-Line	243.2	1,101.5	122,749.2
16. Unit Reserve Shtdwn Hrs	.0	.0	8.5
17. Gross Therm Ener (MWH)	223,258	1,378,978	172,306,311
18. Gross Elec Ener (MWH)	71,848	462,555	56,590,141
19. Net Elec Ener (MWH)	66,631	436,370	53,647,655
20. Unit Service Factor	32.7	50.4	76.3
21. Unit Avail Factor	32.7	50.4	76.3
22. Unit Cap Factor (MDC Net)	19.1	42.5	72.4*
23. Unit Cap Factor (DER Net)	19.1	42.5	72.4*
24. Unit Forced Outage Rate	48.6	17.2	6.4
25. Forced Outage Hours	229.5	229.5	4,553.9

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

NONE

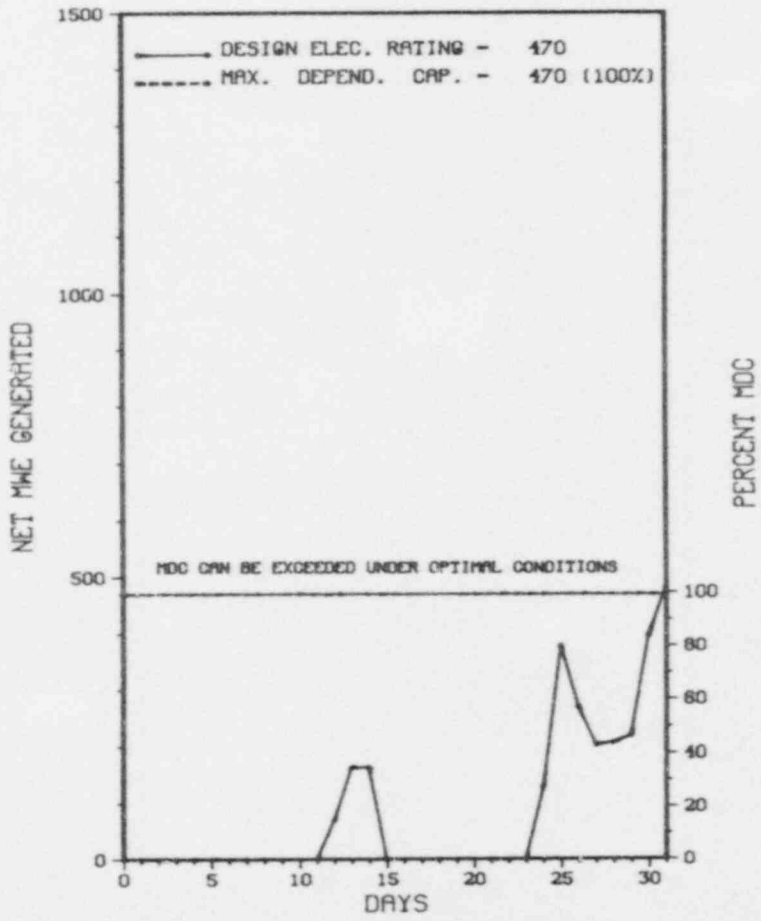
27. If Currently Shutdown Estimated Startup Date: N/A

* Item calculated with a Weighted Average

****
* GINNA *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

GINNA



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* GINNA *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-1	03/12/88	S	270.8	C	4				ANNUAL REFUELING AND MAINTENANCE.
88-2	03/13/88	S	0.5	B	1		HA	TURBIN	TURBINE OVERSPEED TRIP TEST. NOTE: REACTOR REMAINS CRITICAL.
88-3	03/14/88	F	229.5	A	1	88-004	CA	HTEXCH	"B" STEAM GENERATOR TUBE LEAK.
88-4	03/26/88	F	0.0	A	5		CH	PUMPXX	IMPELLER DAMAGE TO "A" MAIN FEEDWATER PUMP, OUT OF SERVICE.

****
* SUMMARY *
****

GINNA COMPLETED REFUELING DURING MARCH AND SUBSEQUENTLY INCURRED 2 OUTAGES AND 1 POWER REDUCTION WHILE ESCALATING TO POWER.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* GINNA *
****

FACILITY DATA

Report Period MAR 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. STAHLE
DOCKET NUMBER.....50-244

LICENSE & DATE ISSUANCE....DPR-18, DECEMBER 10, 1984

PUBLIC DOCUMENT ROOM.....ROCHESTER PUBLIC LIBRARY
BUSINESS AND SOCIAL SCIENCE DIVISION
115 SOUTH AVENUE
ROCHESTER, NEW YORK 14610

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3833

5. Nameplate Rating (Gross MWe): 1373

6. Design Electrical Rating (Net MWe): 1250

7. Maximum Dependable Capacity (Gross MWe): 1190

8. Maximum Dependable Capacity (Net MWe): 1142

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	24,121.0
13. Hours Reactor Critical	727.3	1,969.9	17,681.2
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	714.8	1,839.5	16,962.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,635,918	6,618,385	55,814,057
18. Gross Elec Ener (MWH)	869,520	2,199,130	17,390,540
19. Net Elec Ener (MWH)	835,623	2,112,074	16,591,268
20. Unit Service Factor	96.1	84.2	70.3
21. Unit Avail Factor	96.1	84.2	70.3
22. Unit Cap Factor (MDC Net)	98.3	84.7	60.2
23. Unit Cap Factor (DER Net)	89.9	77.4	55.0
24. Unit Forced Outage Rate	3.9	10.7	7.3
25. Forced Outage Hours	29.2	221.2	1,329.4

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

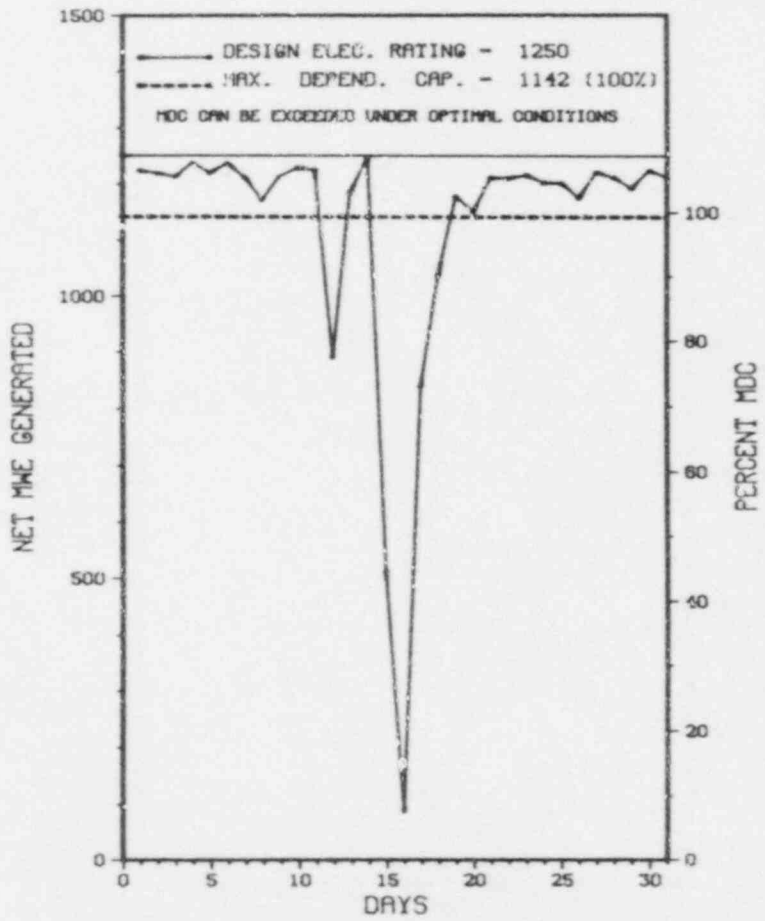
NONE

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

****
* GRAND GULF 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

GRAND GULF 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

GRAND GULF 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-3	03/12/88	S	0.0	H	5				CONTROL ROD SEQUENCE EXCHANGE.
88-4	03/15/88	F	29.2	A	3	88-010		JC	THE REACTOR SCRAMMED ON LOW WATER LEVEL DURING THE MONTHLY CHANNEL FUNCTIONAL SURVEILLANCE FOR THE HIGH/LOW REACTOR WATER LEVEL INSTRUMENTATION. A LOOSE CONNECTION IN A REACTOR PROTECTION SYSTEM (RPS) TERMINAL BOX DEENERGIZED 29 GROUP 3 SCRAM PILOT SOLENOIDS. WHEN A PLANNED HALF SCRAM SIGNAL, REQUIRED BY THE SURVEILLANCE PROCEDURE, WAS INITIATED, 29 OF THE GROUP 3 CONTROL RODS RECEIVED A FULL SCRAM SIGNAL AND FULLY INSERTED. THE RESULTING SUDDEN VOID COLLAPSE CAUSED A FULL SCRAM ON LOW WATER LEVEL. THE CONNECTIONS IN THE TERMINAL BOX WERE CLEANED AND RETIGHTENED AND SIMILAR CONNECTIONS WERE INSPECTED.

SUMMARY

GRAND GULF 1 INCURRED 1 OUTAGE AND 1 POWER REDUCTION IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* GRAND GULF 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....MISSISSIPPI

COUNTY.....CLAIBORNE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI S OF
VICKSBURG, MISS

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...AUGUST 18, 1982

DATE ELEC ENER 1ST GENER...OCTOBER 20, 1984

DATE COMMERCIAL OPERATE....JULY 1, 1985

CONDENSER COOLING METHOD...CCHNDCT

CONDENSER COOLING WATER....MISSISSIPPI RIVER

ELECTRIC RELIABILITY
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....MISSISSIPPI POWER & LIGHT COMPANY

CORPORATE ADDRESS.....P.O. BOX 1640
JACKSON, MISSISSIPPI 39205

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....ALLIS-CHALMERS

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....R. BUTCHER

LICENSING PROJ MANAGER.....L. KINTNER
DOCKET NUMBER.....50-416

LICENSE & DATE ISSUANCE....NPF-29, NOVEMBER 1, 1984

PUBLIC DOCUMENT ROOM.....HINDS JUNIOR COLLEGE
MC LENDON LIBRARY
RAYMOND, MISSISSIPPI 39154

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION DECEMBER 14-18 (87-32): THIS SPECIAL, ANNOUNCED INSPECTION WAS IN THE AREA OF ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRICAL EQUIPMENT AND INCLUDED A REVIEW OF SYSTEM ENERGY RESOURCES, INC'S (SERI) IMPLEMENTATION OF REQUIREMENTS OF 10 CFR 50.49 FOR GRAND GULF NUCLEAR STATION (GGNS) AND AN INSPECTION OF ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. ENVIRONMENTAL QUALIFICATION (EQ) FOR ELECTRICAL EQUIPMENT WAS INITIALLY REQUIRED TO MEET NUREG 0588 CATEGORY II REQUIREMENTS. THE ELECTRICAL EQUIPMENT REQUIRING ENVIRONMENTAL QUALIFICATION AT GGNS IS QUALIFIED TO THE REQUIREMENTS OF NUREG 0588 CATEGORY I OR CATEGORY II. THE NRC INSPECTORS EXAMINED SYSTEM ENERGY RESOURCES, INC. (SERI) PROGRAM FOR ESTABLISHING THE QUALIFICATION OF EQUIPMENT WITHIN THE SCOPE OF 10 CFR 50.49. THE PROGRAM WAS EVALUATED BY AN EXAMINATION OF SERI'S QUALIFICATION DOCUMENTATION FILES, REVIEW OF PROCEDURES FOR CONTROLLING THE EQ EFFORT, AND VERIFICATION OF ADEQUACY AND ACCURACY OF THE PROGRAM FOR MAINTAINING THE QUALIFIED STATUS OF THE APPLICABLE EQUIPMENT AT GRAND GULF. BASED ON THE INSPECTION FINDINGS, WHICH ARE DISCUSSED IN THE REPORT, THE INSPECTION TEAM DETERMINED THAT SERI HAS IMPLEMENTED A PROGRAM TO MEET THE REQUIREMENTS OF 10 CFR 50.49 FOR GRAND GULF ALTHOUGH SOME DEFICIENCIES WERE IDENTIFIED. FOUR VIOLATIONS WERE IDENTIFIED: COMMERCIAL GRADE COMPONENTS INSTALLED IN EQ EQUIPMENT: LIMITORQUE MOV, T-DRAINS AND GREASE RELIEF VALVES; RAYCHEM HEAT SHRINK TUBING IN UNQUALIFIED CONFIGUATIONS; AND QUALIFICATION PACKAGE FOR LUBRICANTS.

INSPECTION JANUARY 16 - FEBRUARY 19 (88-01): THIS ROUTINE INSPECTION WAS CONDUCTED BY THE RESIDENT INSPECTORS AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, SURVEILLANCE OBSERVATION, ESF SYSTEM WALKDOWN, REPORTABLE OCCURRENCES, OPERATING REACTOR EVENTS, INSPECTOR FOLLOWUP AND UNRESOLVED ITEMS AND A MANAGEMENT MEETING. ONE VIOLATION WAS IDENTIFIED: FAILURE TO FOLLOW PROCEDURE FOR PROPERLY STORING NITROGEN CHARGING BOTTLES INSIDE CONTAINMENT.

****
* GRAND GULF 1 *
****

INSPECTION SUMMARY

INSPECTION JANUARY 25-29 (88-02): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INCLUDED A REVIEW OF THE LICENSEE'S RESPONSE AND ACTIONS RELATIVE TO A BARRIER OPENING WHICH EXCEEDED THE 96 SQUARE INCH CRITERIA. 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. IN THIS REGARDING, THE FOLLOWING FUNCTIONAL AREAS OF PHYSICAL SECURITY ACTIVITIES WERE REVIEWED: MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; RECORDS AND REPORTS; PHYSICAL BARRIERS - PROTECTED AREAS; PHYSICAL BARRIERS - VITAL AREAS; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL; ACCESS CONTROL - VEHICLES; DETECTION AIDS; ALARM STATION AND PERSONNEL TRAINING AND QUALIFICATION GENERAL REQUIREMENTS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

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

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

INSPECTION REPORT NO: 50-416/88-02 +

****
* GRAND GULF 1 *
****

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-003	01/09/88	02/08/88	EMERGENCY CORE COOLING SYSTEMS DELTA PRESSURE INSTRUMENTATION NO CALIBRATED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS
88-006	01/20/88	02/19/88	CONDENSER MANWAY LEAKAGE ON HOTWELL LOW LEVEL SWITCHES TRIPS ALL CONDENSER 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	HYDORGEN IGNITION IN OFFGAS SYSEM WHILE SWAPPING STEAM JET AIR EJECTORS

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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: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	177,504.0
13. Hours Reactor Critical	257.7	257.7	146,446.9
14. Rx Reserve Shtdwn Hrs	.0	.0	1,221.2
15. Hrs Generator On-Line	129.0	129.0	140,329.1
16. Unit Reserve Shtdwn Hrs	.0	.0	398.0
17. Gross Therm Ener (MWH)	82,124	82,124	242,852,128
18. Gross Elec Ener (MWH)	25,330	25,330	79,805,708
19. Net Elec Ener (MWH)	14,371	9,151	75,569,765
20. Unit Service Factor	17.3	5.9	79.1
21. Unit Avail Factor	17.3	5.9	79.3
22. Unit Cap Factor (MDC Net)	3.4	.7	77.8*
23. Unit Cap Factor (DER Net)	3.3	.7	73.2*
24. Unit Forced Outage Rate	.0	.0	6.0
25. Forced Outage Hours	.0	.0	2,432.8

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

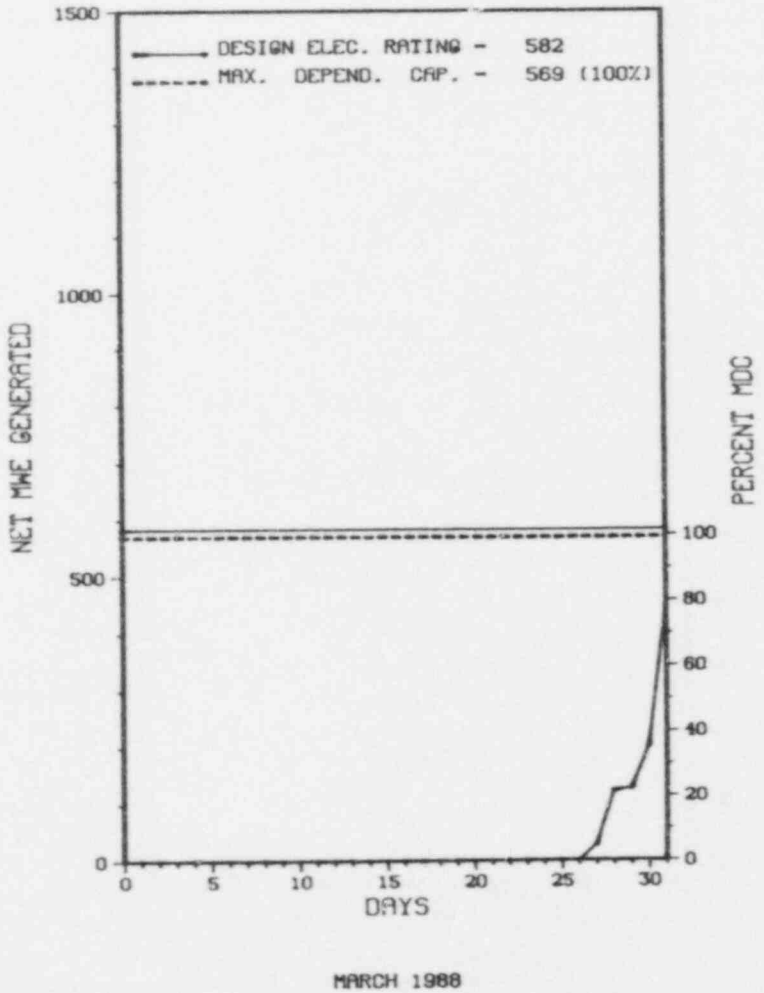
REPLACE RCP NO.3 SEAL, 4/18/88, 6 DAY DURATION.

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

****
* HADDAM NECK *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HADDAM NECK



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

HADDAM NECK

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
87-03	07/18/87	S	614.1	C	4		RC	FUELXX	CONTINUATION OF REFUELING OUTAGE.
88-01	03/27/88	S	0.9	B	1			ZZZZZZ	TURBINE OVERSPEED TRIP TEST.

SUMMARY

HADDAM NECK ENTERED MONTH SHUTDOWN FOR REFUELING. RETURNED TO POWER, SUBSEQUENTLY INCURRED 1 POWER OUTAGE FOR TURBINE OVERSPEED TRIP TEST.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* HADDAM NECK *
****

FACILITY DATA

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, CONNECTITCUT 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.

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.

REPORTS FROM LICENSEE

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

1. Docket: 50-400 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2775

5. Nameplate Rating (Gross MWe): 950

6. Design Electrical Rating (Net MWe): 900

7. Maximum Dependable Capacity (Gross MWe): 920

8. Maximum Dependable Capacity (Net MWe): 860

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	8,041.0
13. Hours Reactor Critical	554.2	1,994.2	6,444.1
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	542.4	1,982.4	6,306.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,446,278	5,423,104	16,573,245
18. Gross Elec Ener (MWH)	485,132	1,835,783	5,501,001
19. Net Elec Ener (MWH)	449,380	1,716,269	5,095,098
20. Unit Service Factor	72.9	90.8	78.4
21. Unit Avail Factor	72.9	90.3	78.4
22. Unit Cap Factor (MDC Net)	70.2	91.4	73.7
23. Unit Cap Factor (DER Net)	67.1	87.3	70.4
24. Unit Forced Outage Rate	27.1	9.2	10.1
25. Forced Outage Hours	201.6	201.6	704.9

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

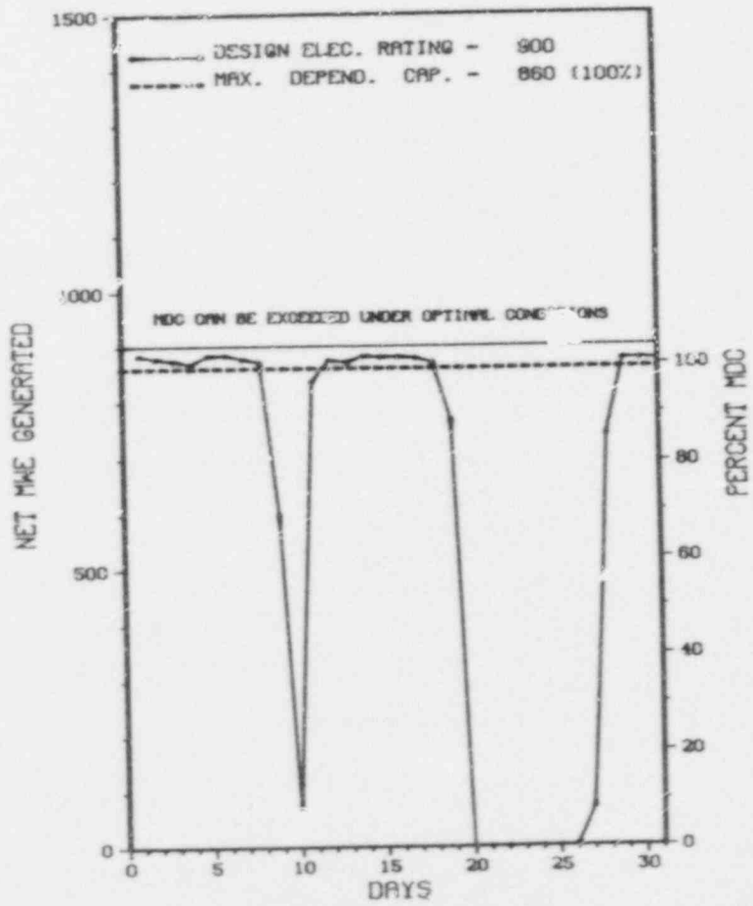
REFUELING-JULY 16, 1988-7 WEEK DURATION.

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

****
* HARRIS 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HARRIS 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

HARRIS 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-006	03/09/88	F	21.4	A	3	88-07	HH	ELECON	AUTOMATIC REACTOR SCRAM FROM 100% POWER DUE TO LOW STEAM GENERATOR LEVEL/STEAM FLOW FEED FLOW MISMATCH. THIS WAS CAUSED BY A LOOSE FUSE IN THE FEEDWATER ISOLATION CIRCUIT FOR THE "B" MAIN FEEDWATER REGULATING VALVE. THIS CAUSED THE REGULATING VALVE TO FAIL CLOSED. THE INVESTIGATION REVEALED A LOOSE RENEWABLE FUSE ON THE SOLENOID CAUSED BY LOSS OF CONTINUITY. THE FUSE WAS REPLACED WITH A NON-RENEWABLE TYPE AND THE UNIT WAS RETURNED TO SERVICE.
88-007	03/19/88	F	0.0	A	5		HJ	PIPEXX	POWER REDUCTION TO 90% DUE TO THE TRIP OF A HEATER DRAIN PUMP. THE TRIP WAS DUE TO A FAILURE IN THE EXTRACTION STEAM SYSTEM DISCUSSED IN THE NEXT ENTRY.
88-008	03/20/88	F	180.2	A	1		HJ	PIPEXX	WHILE INVESTIGATING ENTRY 88-007, SECONDARY CHEMISTRY PARAMETERS INDICATED A CONDENSER TUBE LEAK. THE UNIT WAS REMOVED FROM SERVICE TO INVESTIGATE. THE INVESTIGATION REVEALED DAMAGED EXTRACTION STEAM EXPANSION JOINTS ON THE LOW PRESSURE TURBINE. THE JOINTS WERE REPLACED WITH SPARES AND A STUDY IS UNDERWAY TO EVALUATE REPLACEMENT OF ALL EXTRACTION STEAM EXPANSION JOINTS WITH JOINTS OF A DIFFERENT TYPE OF MATERIAL IN A FUTURE OUTAGE. THE DAMAGED CONDENSER TUBES WERE PLUGGED AND THE UNIT WAS RETURNED TO FULL POWER.

*** SUMMARY ***

HARRIS 1 INCURRED 1 POWER REDUCTION AND 2 OUTAGES IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* HARRIS 1 *
****

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

Report Period MAR 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.....S. MAXWELL

LICENSING PROJ MANAGER.....B. BUCKLEY
DOCKET NUMBER.....50-400

LICENSE & DATE ISSUANCE....NPF-63, JANUARY 12, 1987

PUBLIC DOCUMENT ROOM.....RICHARD B. HARRISON LIBRARY
1313 NEW BERN AVE.
RALEIGH, N. C., 27610

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

INSPECTION SUMMARY

+ INSPECTION JANUARY 22 - FEBRUARY 20 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED INSPECTION IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION AND MONTHLY MAINTENANCE OBSERVATION. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 29 - MARCH 4 (88-05): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED TH AREAS OF: SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; RECORDS AND REPORTS; LOCKS, KEYS, AND COMBINATIONS; LIGHTING; ACCESS CONTROL - PERSONNEL AND VEHICLES; ALARM STATIONS; COMMUNICATIONS; ANND PERSONNEL TRAINING AND QUALIFICATION - GENERAL REQUIREMENTS. A VIOLATION WAS IDENTIFIED IN THE AREA OF ACCESS CONTROL - PERSONNEL AND VEHICLES.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

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: FEBRUARY 29 - MARCH 4, 1988 +

INSPECTION REPORT NO: 50-400/88-05 +

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

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-005	01/30/88	02/29/88	TURBINE BUILDING VENT STACT MONITOR SAMPLING RM AIR DUE TO MISPOSITIONED VALVES CAUSED BY INADEQUATE PROCEDURE
88-006	02/08/88	03/08/88	BOTH EMERGENCY SERVICE WATER SYSTEMS INOPERABLE DUE TO ISOLATION VALVE FAILURES AND DESIGN DEFICIENCY
88-008	02/17/88	03/18/88	INADVERTENT ACUTATION OF ENGINEERED SAFETY FEATURES DURING TESTING OF EMERGENCY SEQUENCER

1. Docket: 50-321 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2436

5. Nameplate Rating (Gross MWe): 850

6. Design Electrical Rating (Net MWe): 776

7. Maximum Dependable Capacity (Gross MWe): 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	744.0	2,184.0	107,376.0
13. Hours Reactor Critical	744.0	2,143.9	76,908.8
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,133.0	72,909.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,806,600	5,163,262	157,918,642
18. Gross Elec Ener (MWH)	583,980	1,669,220	51,048,600
19. Net Elec Ener (MWH)	557,813	1,594,202	48,525,421
20. Unit Service Factor	100.0	97.7	67.9
21. Unit Avail Factor	100.0	97.7	67.9
22. Unit Cap Factor (MDC Net)	99.2	96.6	59.8
23. Unit Cap Factor (DER Net)	96.6	94.1	58.2
24. Unit Forced Outage Rate	.0	2.3	13.2
25. Forced Outage Hours	.0	51.0	10,914.1

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

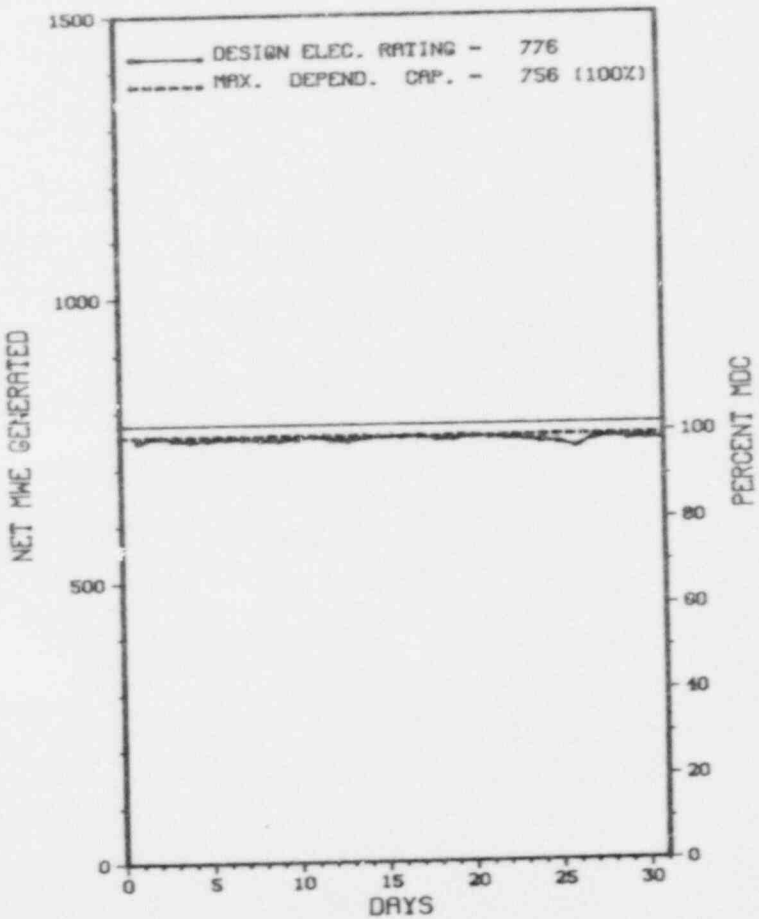
REFUELING, SEPTEMBER 23, 1988, 65 DAY DURATION.

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

****
* HATCH 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HATCH 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* HATCH 1 *
****

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

****
* SUMMARY *
****

HATCH 1 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* HATCH 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....GEORGIA

COUNTY.....APPLING

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

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...SEPTEMBER 12, 1974

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

DATE COMMERCIAL OPERATE....DECEMBER 31, 1975

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER....ALTAMAHA RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GEORGIA POWER

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

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....GEORGIA POWER CO.

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

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

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

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

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION DECEMBER 7-10 (87-32): THIS SPECIAL, ANNOUNCED INSPECTION WAS AN EMERGENCY RESPONSE FACILITY 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. SELECT ACTIVITIES WERE OBSERVED DURING THE 1987 ANNUAL EXERCISE TO ASCERTAIN THE ADEQUACY OF THE ERFS AND RELATED EQUIPMENT. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 25-29 (88-02): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INCLUDED A REVIEW AND EXAMINATION OF: MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; LOCKS, KEYS AND COMBINATIONS; SECURITY SYSTEM POWER SUPPLY; LIGHTING; ACCESS CONTROL - PERSONNEL; ACCESS CONTROL - PACKAGES; ACCESS CONTROL - VEHICLES; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW, AND PHYSICAL PROTECTION SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS WITHIN THE TWELVE AREAS INSPECTED.

INSPECTION FEBRUARY 1-5 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF THE PREVIOUS OPEN ITEMS, SEISMIC ANALYSIS FOR AS-BUILT SAFETY-RELATED PIPING SYSTEMS (IEB 79-14), AND MARK I CONTAINMENT LONG TERM PROGRAM MODIFICATION (USI A-7). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 23 - FEBRUARY 19 (88-05): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, PLANT MODIFICATION, SURVEILLANCE OBSERVATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, AND REACTOR OPERATING EVENTS. TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION SUMMARY

INSPECTION FEBRUARY 29 - MARCH 4 (88-09): THIS ROUTINE, UNANNOUNCED SECURITY INSPECTION EXAMINED THE FOLLOWING ELEMENTS: PLAN/PROCEDURES; REPORTS/RECORDS; TESTING/ MAINTENANCE; BARRIERS; DETECTION AIDS; COMPENSATORY MEASURES; ASSESSMENT AIDS AND ALARM STATIONS. DURING THIS INSPECTION THE LICENSEE'S EFFORTS TO IMPROVE THE SALP RATING WERE ALSO REVIEWED. THREE VIOLATIONS, ONE UNRESOLVED ITEM, AND ONE INSPECTION FOLLOWUP ITEM 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 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)

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: FEBRUARY 29 - MARCH 4, 1988 +

INSPECTION REPORT NO: 50-321/88-09 +

REPORTS FROM LICENSEE

HATCH 1

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	02/09/88	03/08/88	PERSONNEL ERRORS CAUSE PROCEDURE ERRORS LEADING TO VIOLATIONS OF TECHNICAL SPECIFICATIONS
88-003	02/26/88	03/28/88	SPURIOUS GROUND FAULT TRIPS MAIN TURBINE AND GENERATOR RESULTING IN REACTOR SCRAM

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1. Docket: 50-366 OPERATIMG STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2436

5. Nameplate Rating (Gross MWe): 850

6. Design Electrical Rating (Net MWe): 784

7. Maximum Dependable Capacity (Gross MWe): 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	744.0	2,184.0	75,145.0
13. Hours Reactor Critical	319.7	615.6	53,307.6
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	218.4	509.0	51,082.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	406,290	919,306	109,657,629
18. Gross Elec Ener (MWH)	124,320	295,150	36,050,250
19. Net Elec Ener (MWH)	113,747	272,437	34,316,949
20. Unit Service Factor	29.4	23.3	68.0
21. Unit Avail Factor	29.4	23.3	68.0
22. Unit Cap Factor (MDC Net)	19.9	16.2	59.5
23. Unit Cap Factor (DER Net)	19.5	15.9	58.2
24. Unit Forced Outage Rate	13.8	6.5	8.3
25. Forced Outage Hours	35.1	35.1	4,618.9

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

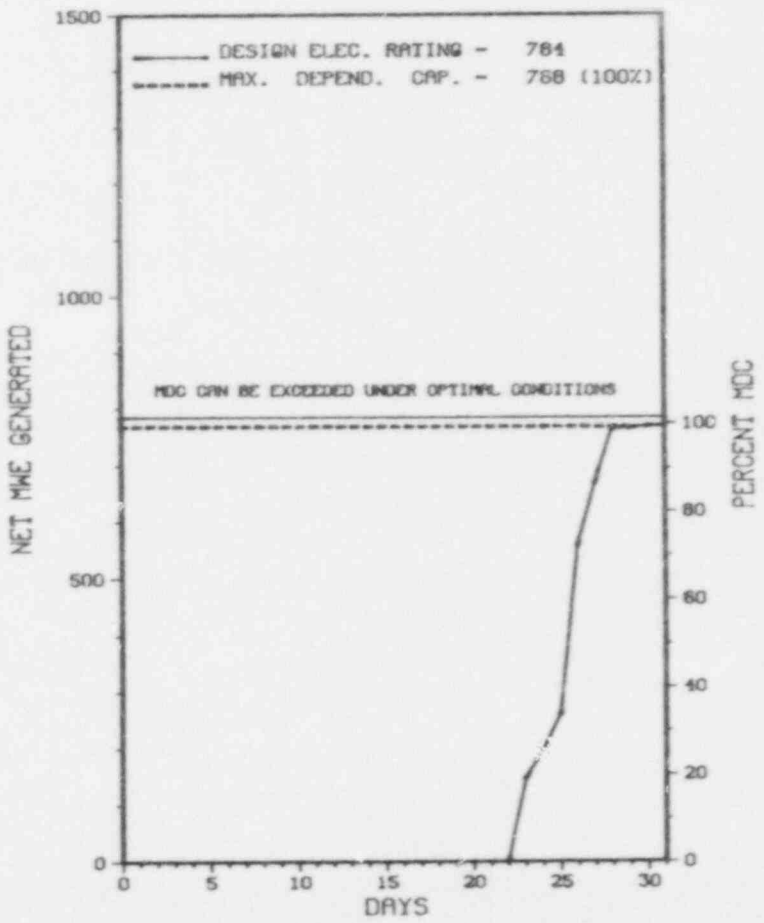
NONE

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

****
* HATCH 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HATCH 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

HATCH 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-002	01/13/88	S	483.7	C	4		RC	FUELXX	REFUELING OUTAGE CONTINUES.
88-003	03/21/88	S	6.8	B	1		HA	TURBIN	REMOVED GENERATOR FROM GRID FOR TURBINE OVERSPEED TEST.
88-004	03/21/88	F	35.1	H	2	2-88-008	CH	INSTRU	DUR TO IMPROPER CONTROL SETTINGS ON THE REACTOR FEED PUMP CONTROLLER OSCILLATIONS WERE EXPERIENCED IN THE FEEDWATER SYSTEM WHICH CAUSED A REACTOR FEED PUMP TRIP ON LOW SUCTION PRESSURE. A MANUAL SCRAM WAS SUBSEQUENTLY INSERTED. THE PROPER CONTROL SETTINGS WERE IDENTIFIED AND THE FEED PUMP CONTROLLER RECALIBRATED.

SUMMARY

HATCH 2 COMPLETED REFUELING OUTAGE IN MARCH. SUBSEQUENTLY RETURNED TO PUWER AND INCURRED 2 OUTAGES 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* HATCH 2 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....GEORGIA

COUNTY.....APPLING

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

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...JULY 4, 1978

DATE ELEC ENER 1ST GENER...SEPTEMBER 22, 1978

DATE COMMERCIAL OPERATE....SEPTEMBER 5, 1979

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER....ALTAMAHA RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GEORGIA POWER

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

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....GEORGIA POWER CO.

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

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

LICENSING PROJ MANAGER.....L. CROCKER
DOCKET NUMBER.....50-366

LICENSE & DATE ISSUANCE....NPF-5, JUNE 13, 1978

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION DECEMBER 7-10 (87-32): THIS SPECIAL, ANNOUNCED INSPECTION WAS AN EMERGENCY RESPONSE FACILITY 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. SELECT ACTIVITIES WERE OBSERVED DURING THE 1987 ANNUAL EXERCISE TO ASCERTAIN THE ADEQUACY OF THE ERFS AND RELATED EQUIPMENT. NC VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 25-29 (88-02): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION INCLUDED A REVIEW AND EXAMINATION OF: MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; LOCKS, KEYS AND COMBINATIONS; SECURITY SYSTEM POWER SUPPLY; LIGHTING; ACCESS CONTROL - PERSONNEL, ACCESS CONTROL - PACKAGES; ACCESS CONTROL - VEHICLES; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW, AND PHYSICAL PROTECTION SAFEGUARDS INFORMATION. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS WITHIN THE TWELVE AREAS INSPECTED.

INSPECTION FEBRUARY 1-5 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF THE PREVIOUS OPEN ITEMS, SEISMIC ANALYSIS FOR AS-BUILT SAFETY-RELATED PIPING SYSTEMS (IEB 79-14), AND MARK I CONTAINMENT LONG TERM PROGRAM MODIFICATION (USI A-7). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 23 - FEBRUARY 19 (88-05): THIS ROUTINE INSPECTION WAS CONDUCTED AT THE SITE IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, OPERATIONAL SAFETY VERIFICATION, MAINTENANCE OBSERVATION, PLANT MODIFICATION, SURVEILLANCE OBSERVATION, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, AND REACTOR OPERATING EVENTS. TWO VIOLATIONS WERE IDENTIFIED.

****
* HATCH 2 *
****

INSPECTION SUMMARY

INSPECTION FEBRUARY 29 - MARCH 4 (88-09): THIS ROUTINE, UNANNOUNCED SECURITY INSPECTION EXAMINED THE FOLLOWING ELEMENTS: PLAN/PROCEDURES; REPORTS/RECORDS; TESTING/ MAINTENANCE; BARRIERS; DETECTION AIDS; COMPENSATORY MEASURES; ASSESSMENT AIDS AND ALARM STATIONS. DURING THIS INSPECTION THE LICENSEE'S EFFORTS TO IMPROVE THE SALP RATING WERE ALSO REVIEWED. THREE VIOLATIONS, ONE UNRESOLVED ITEM, AND ONE INSPECTION FOLLOWUP ITEM WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: FEBRUARY 29 - MARCH 4, 1988 +

INSPECTION REPORT NO: 50-366/88-09 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-002	02/19/88	03/18/88	PERSONNEL ERRORS CAUSE PROCEDURE ERRORS LEADING TO VIOLATIONS OF TECHNICAL SPECIFICATIONS
88-007	02/12/88	03/11/88	FAILED VALVES DISCLOSE DESIGN DEFICIENCIES AND TECHNICAL SPECIFICATION VIOLATION

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	11,232.0
13. Hours Reactor Critical	.0	1,045.0	8,903.1
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	1,037.9	8,783.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	3,378,284	27,186,851
18. Gross Elec Ener (MWH)	0	1,133,984	9,045,681
19. Net Elec Ener (MWH)	0	1,085,075	8,650,113
20. Unit Service Factor	.0	47.5	78.2
21. Unit Avail Factor	.0	47.5	78.2
22. Unit Cap Factor (MDC Net)	.0	46.6	54.5*
23. Unit Cap Factor (DER Net)	.0	46.6	72.2
24. Unit Forced Outage Rate	.0	.0	8.0
25. Forced Outage Hours	.0	.0	760.6

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

NONE

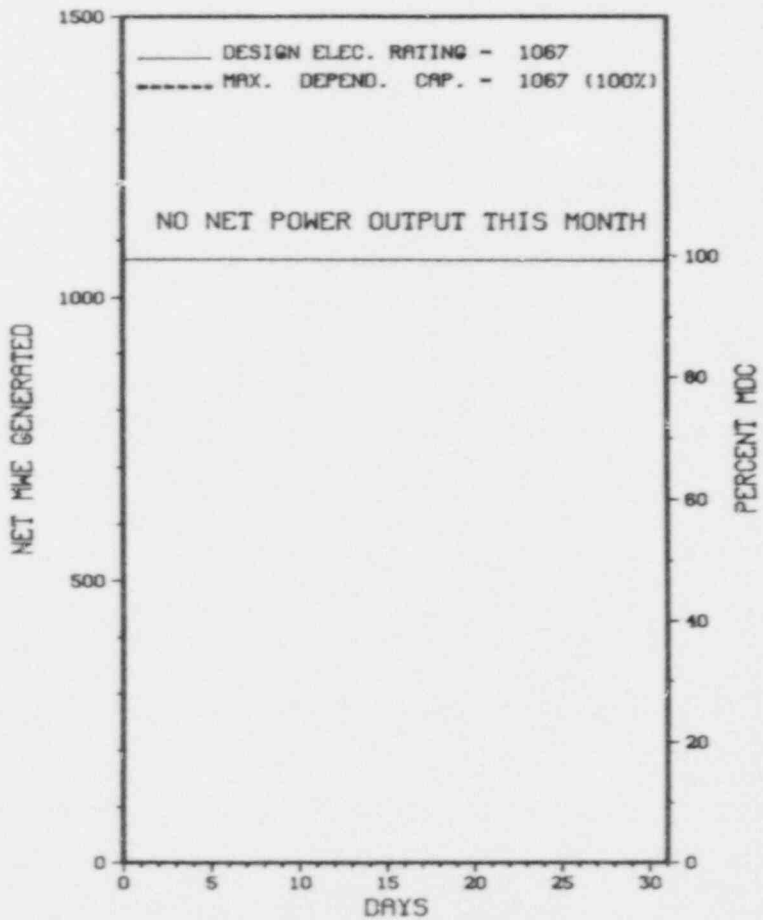
27. If Currently Shutdown Estimated Startup Date: 04/15/88

* Item calculated with a Weighted Average

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

HOPE CREEK 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

HOPE CREEK 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	02/13/88	S	744.0	C	4				CONTINUATION OF REFUELING OUTAGE.

SUMMARY

HOPE CREEK REMAINED SHUTDOWN IN MARCH 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 & License Examination		5-Reduced Load	licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

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

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR..... .

LICENSING PROJ MANAGER.....G. RIVENBARK
DOCKET NUMBER.....50-354

LICENSE & DATE ISSUANCE....NPF-57, JULY 25, 1986

PUBLIC DOCUMENT ROOM.....PENNSVILLE PUBLIC LIBRARY
190 SOUTH BROADWAY
PENNSVILLE, N. J. 08070

INSPECTION STATUS

INSPECTION SUMMARY

INFO. NOT SUPPLIED BY REGION

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

INFO. NOT SUPPLIED BY REGION

FACILITY ITEMS (PLANS AND PROCEDURES):

INFO. NOT SUPPLIED BY REGION

MANAGERIAL ITEMS:

INFO. NOT SUPPLIED BY REGION

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

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

PLANT STATUS:

INFO. NOT SUPPLIED BY REGION

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

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

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

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: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: K. KRIEGER (914) 526-5155

4. Licensed Thermal Power (MWt): 2758

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

6. Design Electrical Rating (Net MWe): 873

7. Maximum Dependable Capacity (Gross MWe): 900

8. Maximum Dependable Capacity (Net MWe): 864

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	120,553.0
13. Hours Reactor Critical	744.0	1,673.3	82,292.4
14. Rx Reserve Shtdwn Hrs	.0	.0	2,867.6
15. Hrs Generator On-Line	744.0	1,539.9	79,936.2
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,054,955	3,957,636	208,800,506
18. Gross Elec Ener (MWH)	680,578	1,296,742	64,910,298
19. Net Elec Ener (MWH)	658,241	1,236,066	61,371,854
20. Unit Service Factor	100.0	70.5	66.3
21. Unit Avail Factor	100.0	70.5	66.3
22. Unit Cap Factor (MDC Net)	102.4	65.5	59.9*
23. Unit Cap Factor (DER Net)	101.3	64.8	58.3
24. Unit Forced Outage Rate	.0	1.6	8.6
25. Forced Outage Hours	.0	25.3	7,283.3

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

NONE

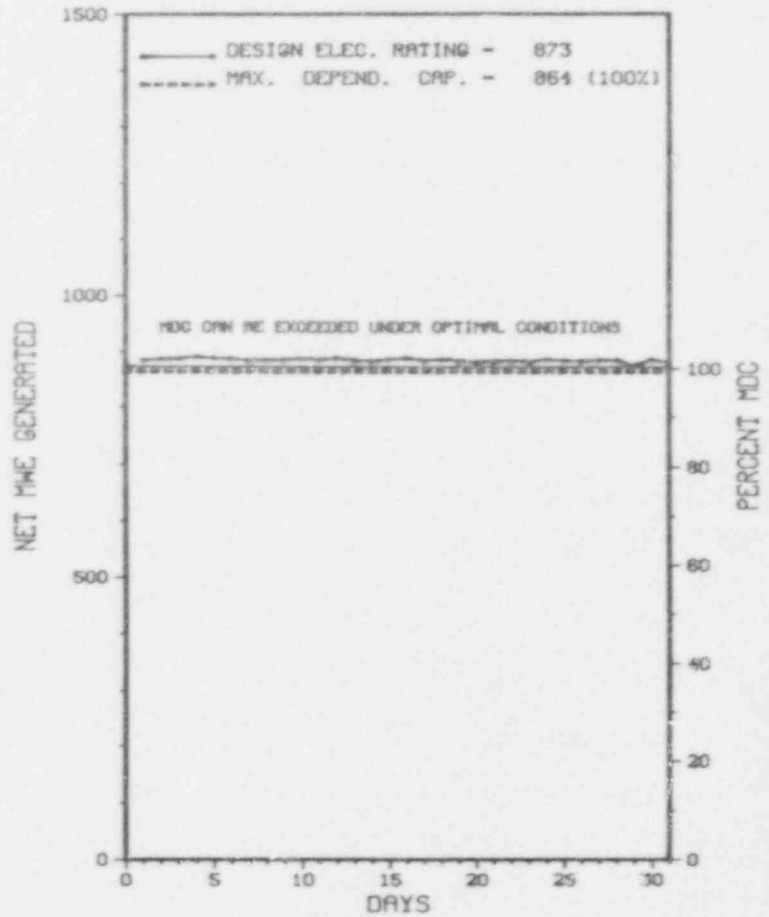
27. If Currently Shutdown Estimated Startup Date: N/A

* Item calculated with a Weighted Average

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

AVERAGE DAILY POWER LEVEL (MWe) PLOT

INDIAN POINT 2



MARCH 1988

Report Period MAR 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 MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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

FACILITY DATA

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

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3025

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

6. Design Electrical Rating (Net MWe): 965

7. Maximum Dependable Capacity (Gross MWe): 1000

8. Maximum Dependable Capacity (Net MWe): 965

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	101,569.0
13. Hours Reactor Critical	734.2	2,158.0	61,503.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	734.2	2,152.5	59,618.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,219,298	6,479,631	158,491,774
18. Gross Elec Ener (MWH)	734,820	2,142,820	50,520,876
19. Net Elec Ener (MWH)	710,160	2,070,489	48,461,047
20. Unit Service Factor	98.7	98.6	58.7
21. Unit Avail Factor	98.7	98.6	58.7
22. Unit Cap Factor (MDC Net)	98.9	98.2	49.4
23. Unit Cap Factor (DER Net)	98.9	98.2	49.4
24. Unit Forced Outage Rate	1.3	1.4	18.1
25. Forced Outage Hours	9.8	31.5	13,120.9

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

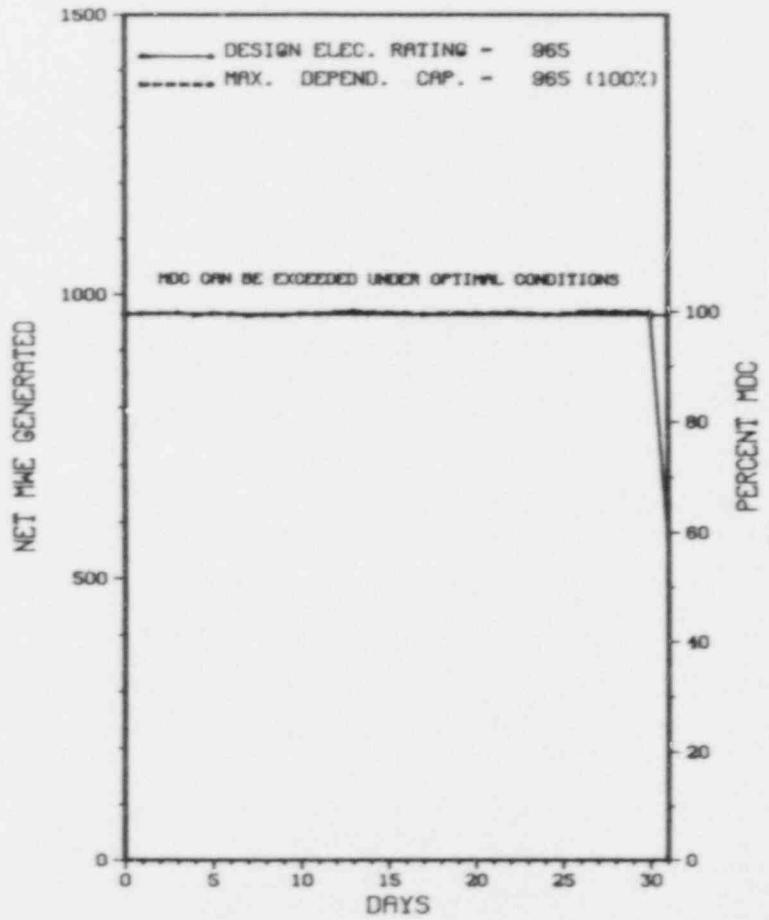
MAINTENANCE-MAY, 1988-DURATION 2 WEEKS.

27. If Currently Shutdown Estimated Startup Date: 04/02/88

****
* INDIAN POINT 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

INDIAN POINT 3



MARCH 1988

Report Period MAR 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	9.8	A	3	88-092-00	HH	PUMPXX	UNIT TRIP ON HIGH LEVEL IN NO. 31 STEAM GENERATOR DUE TO THE STEAM GENERATOR LEVEL TRANSIENTS WHICH FOLLOWED AN INADVERTENT AUTOMATIC TRIP OF NO. 32 MAIN BOILER FEED PUMP.

SUMMARY

INDIAN POINT 3 INCURRED 1 OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* INDIAN POINT 3 *
****

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK

COUNTY.....WESTCHESTER

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI N OF
NEW YORK CITY, NY

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...APRIL 6, 1976

DATE ELEC ENER 1ST GENER...APRIL 27, 1976

DATE COMMERCIAL OPERATE....AUGUST 30, 1976

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....HUDSON RIVER

ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NEW YORK POWER AUTHORITY

CORPORATE ADDRESS.....10 COLUMBUS CIRCLE
NEW YORK, NEW YORK 10019

CONTRACTOR
ARCHITECT/ENGINEER.....UNITED ENG. & CONSTRUCTORS

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....WESTINGHOUSE DEVELOPMENT CORP

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....P. KOLTAY

LICENSING PROJ MANAGER.....J. NEIGHBORS
DOCKET NUMBER.....50-286

LICENSE & DATE ISSUANCE....DPR-64, APRIL 5, 1976

PUBLIC DOCUMENT ROOM.....WHITE PLAINS PUBLIC LIBRARY
100 MARTINE AVENUE
WHITE PLAINS, NEW YORK 10601

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

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 TRANSITTAL DOCUMENT OR A PREESTABLISHED CHECK LIST. 10 CFR 20.203(E) REQUIRESS IN PART, THAT EACH AREA OR ROOM IN WHICH LICENSED MATERIAL IS USSED 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 CONSPICIOUSLY 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 TOOL 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."

ENFORCEMENT SUMMARY

(8702 5)

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: G. RUITER (414) 388-2560 X225

4. Licensed Thermal Power (MWt): 1650

5. Nameplate Rating (Gross MWe): 622 X 0.9 = 560

6. Design Electrical Rating (Net MWe): 535

7. Maximum Dependable Capacity (Gross MWe): 529

8. Maximum Dependable Capacity (Net MWe): 503

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	120,913.0
13. Hours Reactor Critical	37.8	1,477.8	102,940.1
14. Rx Reserve Shtdwn Hrs	.0	.0	2,330.5
15. Hrs Generator On-Line	37.8	1,477.8	101,359.6
16. Unit Reserve Shtdwn Hrs	.0	.0	10.0
17. Gross Therm Ener (MWH)	57,885	2,410,176	159,830,053
18. Gross Elec Ener (MWH)	19,200	800,500	52,787,600
19. Net Elec Ener (MWH)	18,278	764,484	50,268,994
20. Unit Service Factor	5.1	67.7	83.8
21. Unit Avail Factor	5.1	67.7	83.8
22. Unit Cap Factor (MDC Net)	4.9	69.6	80.7*
23. Unit Cap Factor (DER Net)	4.6	65.4	77.7
24. Unit Forced Outage Rate	2.3	.1	2.8
25. Forced Outage Hours	.9	.9	2,839.7

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

NONE

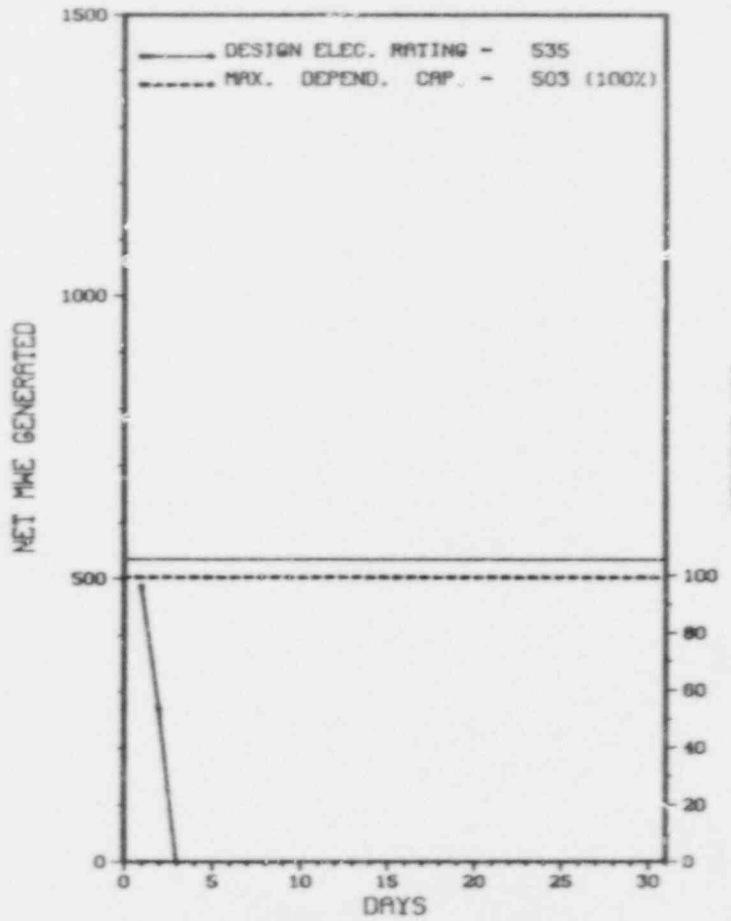
27. If Currently Shutdown Estimated Startup Date: 04/15/88

* Item calculated with a Weighted Average

KEWAUNEE

AVERAGE DAILY POWER LEVEL (MWe) PLOT

KEWAUNEE



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* KEWAUNEE *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/02/88	F	0.9	A	7	88-001	EB	ELECON	AN ELECTRICAL FAULT ON THE BUS FROM THE MAIN AUXILIARY TRANSFORMER (MAT) 'Y' WINDING TO BUSES 1 AND 2 INITIATED A MAIN GENERATOR LOCKOUT TRIP AND A TURBINE TRIP/REACTOR TRIP. GIVEN THE PROXIMITY TO THE SCHEDULED REFUELING OUTAGE START DATE (3/4/88), THE DECISION WAS MADE TO BEGIN THE REFUELING OUTAGE RATHER THAN RESTART THE UNIT.
2	03/02/88	S	705.3	C	9		ZZ	ZZZZZZ	COMMENCED CYCLE XIII-XIV REFUELING OUTAGE.

****
* SUMMARY *
****

KEWAUNEE INCURRED 1 FORCED OUTAGE DURING MARCH. SUBSEQUENTLY, MADE DECISION TO REMAIN SHUTDOWN FOR REFUELING RATHER THAN RESTART.

Type	Reason		Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhib 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* KEWAUNEE *
****

FACILITY DATA

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

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

****
* KEWAUNEE *
****

OTHER ITEMS

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

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	030288	040488	INSULATION FAILURE AND DIRT ACCUMULATION CAUSE ELECTRICAL BUS BAR FAILURE AND REACTOR TRIP

1. Docket: 50-373 O P E R A T I N G S T A T U S
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: G. J. KIRCHNER (815) 357-6761 X 705
4. Licensed Thermal Power (MWt): 3323
5. Nameplate Rating (Gross MWe): 1078
6. Design Electrical Rating (Net MWe): 1078
7. Maximum Dependable Capacity (Gross MWe): 1078
8. Maximum Dependable Capacity (Net MWe): 1036
9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	37,248.0
13. Hours Reactor Critical	289.8	1,729.8	21,773.0
14. Rx Reserve Shtdwn Hrs	.0	.0	1,640.9
15. Hrs Generator On-Line	289.8	1,729.8	21,158.4
16. Unit Reserve Shtdwn Hrs	.0	.0	1.0
17. Gross Therm Ener (MWH)	848,976	5,252,088	63,222,404
18. Gross Elec Ener (MWH)	286,164	1,777,631	18,744,890
19. Net Elec Ener (MWH)	270,406	1,711,746	17,821,534
20. Unit Service Factor	39.0	79.2	56.8
21. Unit Avail Factor	39.0	79.2	56.8
22. Unit Cap Factor (MDC Net)	35.1	75.7	46.2
23. Unit Cap Factor (DER Net)	33.7	72.7	44.4
24. Unit Forced Outage Rate	.0	.0	13.4
25. Forced Outage Hours	.0	.0	3,264.6

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

NONE

27. If Currently Shutdown Estimated Startup Date: 06/26/88

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* LASALLE 1 *
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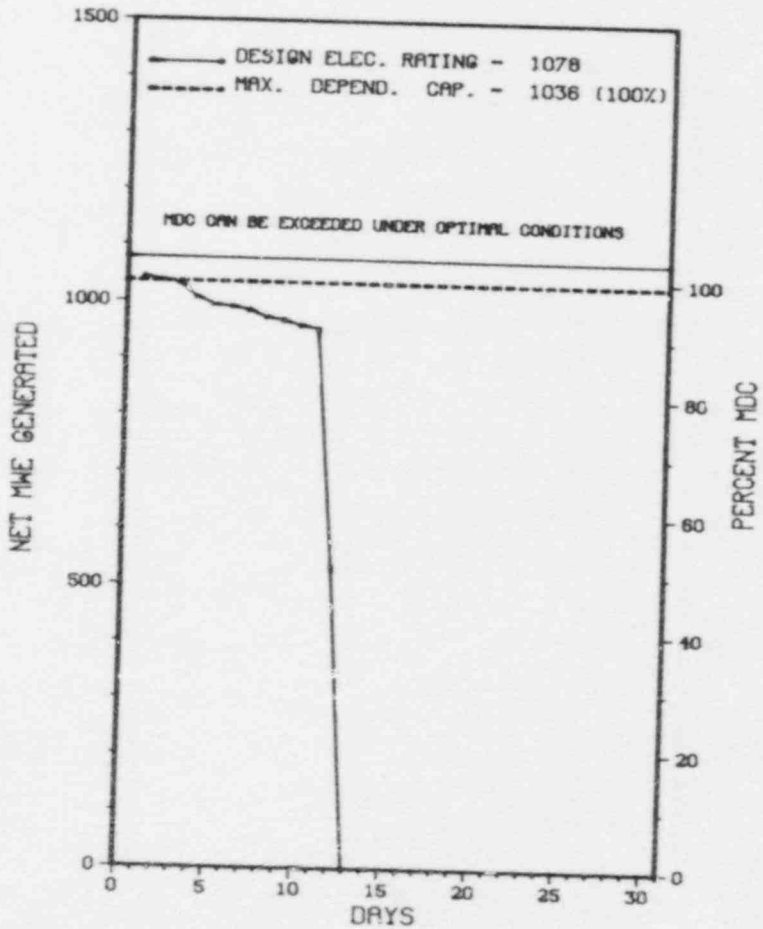
AVERAGE DAILY POWER LEVEL (MWe) PLOT

LASALLE 1



MARCH 1988

Report Period MAR 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	454.2	C	1				SECOND REFUEL OUTAGE.

****
* SUMMARY *
****

LA SALLE 1 COMMENCED REFUELING OUTAGE IN MARCH.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

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 JANUARY 7 THROUGH FEBRUARY 9, 1988 (88003). ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; REGIONAL REQUESTS/FOLLOWUP ON GENERIC LETTERS; SECURITY; AND ALLEGATIONS. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. THE LICENSEE HAS BEEN SUCCESSFUL IN REDUCING PERSONNEL ERRORS AND INCREASING THE AWARENESS OF PLANT PERSONNEL. BOTH UNITS HAVE BEEN OPERATING AT OR NEAR 100% POWER. THE LICENSEE STILL NEEDS TO MAINTAIN EFFORTS TO MINIMIZE ERRORS. THERE WAS ONE PERSONNEL ERROR DURING THIS REPORTING PERIOD WHICH CAUSED A FEEDWATER TRANSIENT WHICH COULD HAVE TRIPPED THE UNIT (I.E., A NEAR-MISS). THE OVERALL PERFORMANCE OF THE LICENSEE CONTINUES TO IMPROVE.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

OTHER ITEMS

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: 03/18/88

INSPECTION REPORT NO: 88006

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	022288	032188	FAILURE OF REACTOR CORE ISOLATION COOLING HIGH REACTOR WATER LEVEL SWITCH DUE TO SETPOINT DRIFT CAUSED BY STRIPED SETPOINT LOCKING MECHANISM SCREW

1. Docket: 50-374 O P E R A T I N G S T A T U S
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: G. J. KIRCHNER (815) 357-6761 X 704
4. Licensed Thermal Power (MWt): 3323
5. Nameplate Rating (Gross MWe): 1078
6. Design Electrical Rating (Net MWe): 1078
7. Maximum Dependable Capacity (Gross MWe): 1078
8. Maximum Dependable Capacity (Net MWe): 1036
9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	30,240.0
13. Hours Reactor Critical	542.5	1,982.5	18,767.2
14. Rx Reserve Shtdwn Hrs	.0	.0	1,716.7
15. Hrs Generator On-Line	525.9	1,965.9	18,437.9
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,419,096	5,840,640	53,635,695
18. Gross Elec Ener (MWH)	470,842	1,953,935	17,762,146
19. Net Elec Ener (MWH)	450,050	1,883,362	16,965,885
20. Unit Service Factor	70.7	90.0	61.0
21. Unit Avail Factor	70.7	90.0	61.0
22. Unit Cap Factor (MDC Net)	58.4	83.2	54.2
23. Unit Cap Factor (DER Net)	56.1	80.0	52.0
24. Unit Forced Outage Rate	29.3	10.0	19.0
25. Forced Outage Hours	218.1	218.1	4,317.9

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

NONE

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

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* LASALLE 2 *
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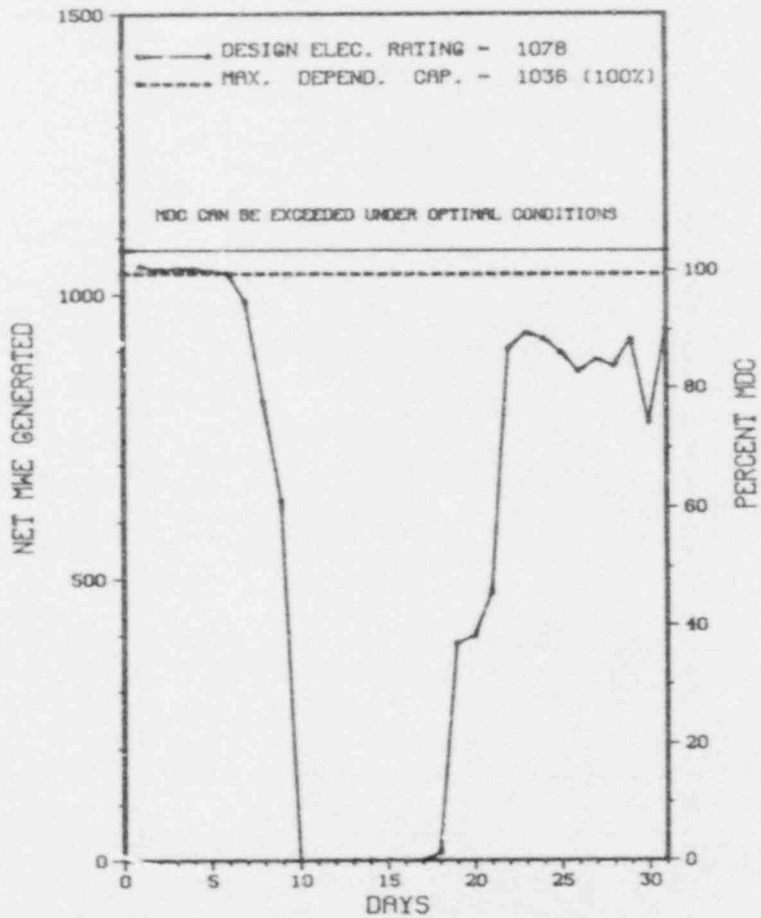
AVERAGE DAILY POWER LEVEL (MWe) PLOT

LASALLE 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* LASALLE 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
5	03/07/88	S	0.0	B	5				HEATER BAY WORK AND SURVEILLANCES.
6	03/09/88	F	218.1	A	3				REACTOR SCRAMMED ON APRM HI-HI AND LOSS OF BOTH RR PUMPS.
7	03/30/88	S	0.0	B	5				ROD PATTERN ADJUSTMENT.

****
* SUMMARY *
****

LA SALLE 2 INCURRED 2 POWER REDUCTIONS AND 1 FORCED OUTAGE IN MARCH FOR REASONS STATED ABOVE.

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

****
* LASALLE 2 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....ILLINOIS

COUNTY.....LA SALLE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...11 MI SE OF
OTTAWA, ILL

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...MARCH 10, 1984

DATE ELEC ENER 1ST GENER...APRIL 20, 1984

DATE COMMERCIAL OPERATE....OCTOBER 19, 1984

CONDENSER COOLING METHOD...POND

CONDENSER COOLING WATER....RESERVOIR

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....COMMONWEALTH EDISON

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

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

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....COMMONWEALTH EDISON

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....M. JORDAN

LICENSING PROJ MANAGER.....P. SHEMANSKI
DOCKET NUMBER.....50-374

LICENSE & DATE ISSUANCE....NPF-18, MARCH 23, 1984

PUBLIC DOCUMENT ROOM.....ILLINOIS VALLEY COMMUNITY COLLEGE
RURAL ROUTE NO. 1
OGLESBY, ILLINOIS 61348

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON JANUARY 7 THROUGH FEBRUARY 9, 1988 (88003). ROUTINE, UNANNOUNCED INSPECTION CONDUCTED BY RESIDENT INSPECTORS OF LICENSEE ACTIONS ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; MAINTENANCE; TRAINING; LICENSEE EVENT REPORTS; REGIONAL REQUESTS/FOLLOWUP ON GENERIC LETTERS; SECURITY; AND ALLEGATIONS. OF THE NINE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. THE LICENSEE HAS BEEN SUCCESSFUL IN REDUCING PERSONNEL ERRORS AND INCREASING THE AWARENESS OF PLANT PERSONNEL. BOTH UNITS HAVE BEEN OPERATING AT OR NEAR 100% POWER. THE LICENSEE STILL NEEDS TO MAINTAIN EFFORTS TO MINIMIZE ERRORS. THERE WAS ONE PERSONNEL ERROR DURING THIS REPORTING PERIOD WHICH CAUSED A FEEDWATER TRANSIENT WHICH COULD HAVE TRIPPED THE UNIT (I.E., A NEAR-MISS). THE OVERALL PERFORMANCE OF THE LICENSEE CONTINUES TO IMPROVE.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

OTHER ITEMS

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: 03/18/88

INSPECTION REPORT NO: 88006

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	030288	033188	2B DIESEL GENERATOR COOLING WATER PUMP FAILURE TO AUTO START
88-02	030388	040188	GROUP 10 ISOLATION DUE TO TEST SWITCH FAILURE FOUND DURING SURVEILLANCE TESTING
88-03	030988	040788	REACTOR SCRAM ON HIGH AVERAGE POWER RANGE MONITOR FLUX LEVEL DUE TO PERSONNEL VALVING ERROR

1. Docket: 50-352 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: R. W. GROPP (215) 841-5058

4. Licensed Thermal Power (MWt): 3293

5. Nameplate Rating (Gross MWe): 1138

6. Design Electrical Rating (Net MWe): 1055

7. Maximum Dependable Capacity (Gross MWe): 1092

8. Maximum Dependable Capacity (Net MWe): 1055

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	18,960.0
13. Hours Reactor Critical	744.0	2,184.0	15,028.0
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,184.0	14,746.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,434,138	7,051,748	45,948,129
18. Gross Elec Ener (MWH)	789,500	2,282,550	14,981,960
19. Net Elec Ener (MWH)	762,209	2,202,179	14,370,016
20. Unit Service Factor	100.0	100.0	77.8
21. Unit Avail Factor	100.0	100.0	77.8
22. Unit Cap Factor (MDC Net)	97.1	95.6	71.8
23. Unit Cap Factor (DER Net)	97.1	95.6	71.8
24. Unit Forced Outage Rate	.0	.0	3.2
25. Forced Outage Hours	.0	.0	491.9

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

MAINTENANCE-APRIL 8, 1988 - 14 DAY DURATION.

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

****
* LIMERICK 1 *
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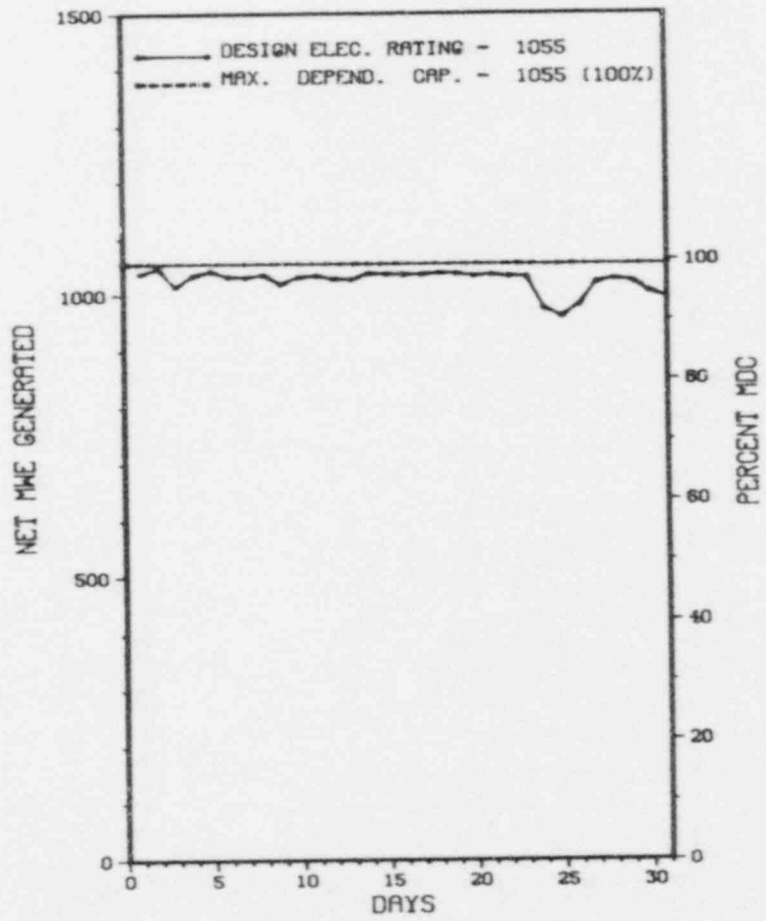
AVERAGE DAILY POWER LEVEL (MWe) PLOT

LIMERICK 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

LIMERICK 1

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

SUMMARY

LIMERICK 1 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* LIMERICK 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA

COUNTY.....MONTGOMERY

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...21 MI NW OF
PHILADELPHIA,PA

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...DECEMBER 22, 1984

DATE ELEC ENER 1ST GENER...APRIL 13, 1985

DATE COMMERCIAL OPERATE....FEBRUARY 1, 1986

CONDENSER COOLING METHOD...CC HNDCT

CONDENSER COOLING WATER....SCHUYLKILL RIVER

ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PHILADELPHIA ELECTRIC

CORPORATE ADDRESS.....2301 MARKET STREET
PHILADELPHIA, PENNSYLVANIA 19105

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....G. KELLY

LICENSING PROJ MANAGER.....D. CLARK
DOCKET NUMBER.....50-352

LICENSE & DATE ISSUANCE....NPF-39, AUGUST 8, 1985

PUBLIC DOCUMENT ROOM.....POTTSTOWN PUBLIC LIBRARY
500 HIGH STREET
POTTSTOWN, PENNSYLVANIA 19464

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.

****
* LIMERICK 1 *
****

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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

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

1. Docket: 50-309 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: J. M. TAYLOR (207) 882-6321

4. Licensed Thermal Power (MWt): 2630

5. Nameplate Rating (Gross MWe): 864

6. Design Electrical Rating (Net MWe): 825

7. Maximum Dependable Capacity (Gross MWe): 850

8. Maximum Dependable Capacity (Net MWe): 810

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	134,940.6
13. Hours Reactor Critical	744.0	2,167.9	108,020.5
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,154.8	104,813.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,955,449	5,628,331	239,988,665
18. Gross Elec Ener (MWH)	614,070	1,769,690	78,658,420
19. Net Elec Ener (MWH)	594,059	1,711,539	75,186,488
20. Unit Service Factor	100.0	98.7	77.7
21. Unit Avail Factor	100.0	98.7	77.7
22. Unit Cap Factor (MDC Net)	98.6	96.7	70.4*
23. Unit Cap Factor (DER Net)	96.3	95.0	68.6*
24. Unit Forced Outage Rate	.0	1.3	7.6
25. Forced Outage Hours	.0	29.2	7,739.8

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

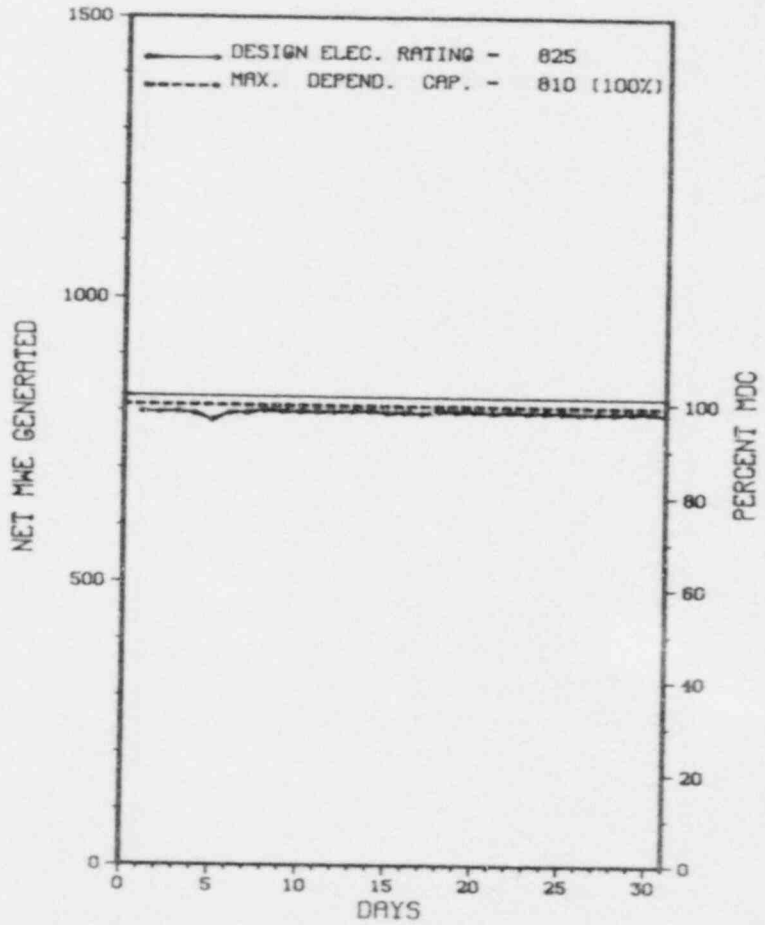
NONE

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

****
* MAINE YANKEE *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MAINE YANKEE



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* MAINE YANKEE *
****

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

NONE

****
* SUMMARY *
****

MAINE YANKEE OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* MAINE YANKEE *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....MAINE

COUNTY.....LINCOLN

DIST AND DIRECTION FROM NEAREST POPULATION CTR...10 MI N OF BATH, ME

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...OCTOBER 23, 1972

DATE ELEC ENER 1ST GENER...NOVEMBER 8, 1972

DATE COMMERCIAL OPERATE....DECEMBER 28, 1972

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....BACK RIVER

ELECTRIC RELIABILITY COUNCIL.....NORTHEAST POWER COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....MAINE YANKEE ATOMIC POWER

CORPORATE ADDRESS.....83 EDISON DRIVE
AUGUSTA, MAINE 04366

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

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....C. HOLDEN

LICENSING PROJ MANAGER.....P. SEARS
DOCKET NUMBER.....50-309

LICENSE & DATE ISSUANCE....DPR-36, JUNE 29, 1973

PUBLIC DOCUMENT ROOM.....WISCASSET PUBLIC LIBRARY
HIGH STREET
WISCASSET, MAINE 04578

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-369 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1305

6. Design Electrical Rating (Net MWe): 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	744.0	2,184.0	55,512.0
13. Hours Reactor Critical	720.5	2,145.9	39,010.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	717.2	2,140.0	38,483.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,380,942	7,075,619	112,144,036
18. Gross Elec Ener (MWH)	824,580	2,455,667	38,851,244
19. Net Elec Ener (MWH)	795,041	2,367,743	37,033,241
20. Unit Service Factor	96.4	98.0	69.3
21. Unit Avail Factor	96.4	98.0	69.3
22. Unit Cap Factor (MDC Net)	94.7	96.0	59.1
23. Unit Cap Factor (DER Net)	90.6	91.9	56.5
24. Unit Forced Outage Rate	3.6	2.0	13.6
25. Forced Outage Hours	26.8	44.0	6,066.7

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

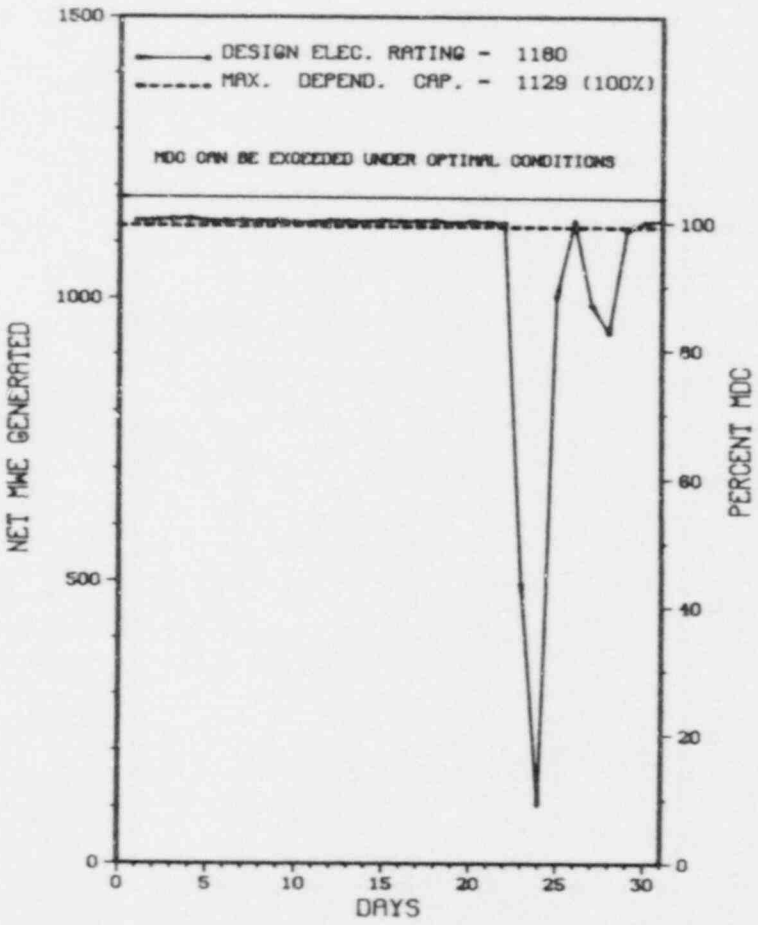
NONE

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

****
* MCGUIRE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* MCGUIRE 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	03/23/88	F	26.8	A	3		IA	ELECON	LOOSE WIRE IN REACTOR PROTECTION (SSPS) CABINET INITIATED SAFETY INJECTION SIGNAL.
14-P	03/24/88	F	0.0	B	5		HG	XXXXXX	POWER HOLD FOR SECONDARY CHEMISTRY.
15-P	03/24/88	F	0.0	B	5		ED	PIPEXX	BUSLINE RELAY WORK.
16-P	03/27/88	S	0.0	F	5		ZZ	ZZZZZZ	POWER DECREASE PER DISPATCHER REQUEST.
17-P	03/28/88	F	0.0	A	5		HA	INSTRU	CHANGE OUT GENERATOR VOLTAGE REGULATOR CONTROL.

****
* SUMMARY *
****

MCGUIRE 1 INCURRED 1 OUTAGE AND 4 POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* MCGUIRE 1 *
****

FACILITY DATA

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 21 - FEBRUARY 26 (88-04): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, AND FOLLOW-UP ON PREVIOUS INSPECTION FINDINGS. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED WITH TWO EXAMPLES INVOLVING A FAILURE TO FOLLOW PROCEDURES AND AN INADEQUATE PROCEDURE ASSOCIATED WITH PERFORMING EQUALIZING CHARGES ON VITAL BATTERIES AND OPERATING THE CHEMICAL AND VOLUME CONTROL SYSTEM.

INSPECTION FEBRUARY 27 - MARCH 18 (88-07): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, AND FOLLOW-UP ON PREVIOUS INSPECTION FINDINGS. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

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 1399.05-0368 001 CAUSED LICENSEE PERSONNEL CONDUCTING THE TEST ON CHANNEL 2 OF NARROW RANGE STEAM GENERATOR LEVEL INSTRUMENTATION

ENFORCEMENT SUMMARY

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: FEBRUARY 27 - MARCH 18, 1988 +

INSPECTION REPORT NO: 50-369/88-07 +

REPORTS FROM LICENSEE

****
* MCGUIRE 1 *
****

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE.			

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1. Docket: 50-370 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: J. A. REAVIS EXT (704) 373-7567
4. Licensed Thermal Power (MWt): 3411
5. Nameplate Rating (Gross MWe): 1450 X .9 = 1305
6. Design Electrical Rating (Net MWe): 1180
7. Maximum Dependable Capacity (Gross MWe): 1225
8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	35,808.0
13. Hours Reactor Critical	744.0	2,166.1	26,612.2
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,161.2	25,988.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,528,325	7,276,432	85,522,036
18. Gross Elec Ener (MWH)	884,445	2,543,874	29,619,102
19. Net Elec Ener (MWH)	853,682	2,453,111	28,389,113
20. Unit Service Factor	100.0	99.0	72.6
21. Unit Avail Factor	100.0	99.0	72.6
22. Unit Cap Factor (MDC Net)	101.6	99.5	70.2
23. Unit Cap Factor (DER Net)	97.2	95.2	67.2
24. Unit Forced Outage Rate	.0	1.0	11.6
25. Forced Outage Hours	.0	22.8	3,417.3

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

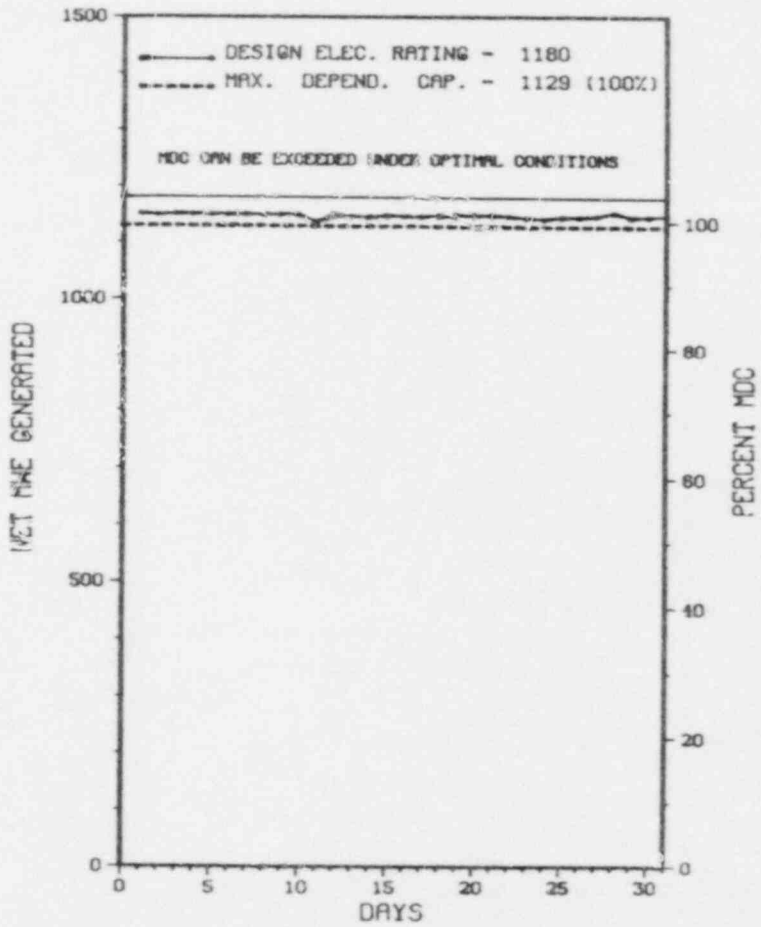
REFUELING - MAY 27, 1988 - 10 WEEK DURATION.

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

MCGUIRE 2

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MCGUIRE 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

MCGUIRE 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
7-P	03/11/88	F	0.0	A	5		ZZ	CKTBKR	RUNBACK DUE TO ALARMS ASSOCIATED WITH SWITCHYARD CONTROL SYSTEM.

SUMMARY

MCGUIRE 2 INCURRED 1 POWER REDUCTION IN MARCH FOR REASONS STATED ABOVE.

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

****
* MCGUIRE 2 *
****

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....NORTH CAROLINA

COUNTY.....MECKLENBURG

DIST AND DIRECTION FROM NEAREST POPULATION CTR...17 MI N OF CHARLOTTE, NC

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 8, 1983

DATE ELEC ENER 1ST GENER...MAY 23, 1983

DATE COMMERCIAL OPERATE....MARCH 1, 1984

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....LAKE NORMAN

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....DUKE POWER

CORPORATE ADDRESS.....POWER BLDG., BOX 2178
CHARLOTTE, NORTH CAROLINA 28201

CONTRACTOR
ARCHITECT/ENGINEER.....DUKE POWER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....DUKE POWER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....W. ORDERS

LICENSING PROJ MANAGER.....D. HOOD
DOCKET NUMBER 50-370

LICENSE & DATE ISSUANCE....NPF-17, MAY 27, 1983

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UNIVERSITY OF NORTH CAROLINA - CHARLOTTE
UNCC STATION,
CHARLOTTE, NC 28223

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 21 - FEBRUARY 26 (88-04): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, AND FOLLOW-UP ON PREVIOUS INSPECTION FINDINGS. IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED WITH TWO EXAMPLES INVOLVING A FAILURE TO FOLLOW PROCEDURES AND AN INADEQUATE PROCEDURE ASSOCIATED WITH PERFORMING EQUALIZING CHARGES ON VITAL BATTERIES AND OPERATING THE CHEMICAL AND VOLUME CONTROL SYSTEM.

INSPECTION FEBRUARY 27 - MARCH 18 (88-07): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES, AND FOLLOW-UP ON PREVIOUS INSPECTION FINDINGS. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

LAST IE SITE INSPECTION DATE: FEBRUARY 27 - MARCH 18, 1988 +

INSPECTION REPORT NO: 50-370/88-07 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE.			

1. Docket: 50-245 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On line Hrs: 744.0

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	744.0	2,184.0	151,992.0
13. Hours Reactor Critical	714.8	2,154.8	118,481.1
14. Rx Reserve Shtdwn Hrs	.0	.0	3,283.3
15. Hrs Generator On-Line	705.6	2,145.6	115,338.1
16. Unit Reserve Shtdwn Hrs	.0	.0	277.4
17. Gross Therm Ener (MWH)	1,390,142	4,269,673	214,475,568
18. Gross Elec Ener (MWH)	476,100	1,464,400	72,240,996
19. Net Elec Ener (MWH)	455,176	1,401,126	68,918,587
20. Unit Service Factor	94.8	98.2	75.9
21. Unit Avail Factor	94.8	98.2	76.1
22. Unit Cap Factor (MDC Net)	93.5	98.1	69.3
23. Unit Cap Factor (DER Net)	92.7	97.2	68.7
24. Unit Forced Outage Rate	5.2	1.8	11.1
25. Forced Outage Hours	38.4	38.4	6,344.9

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

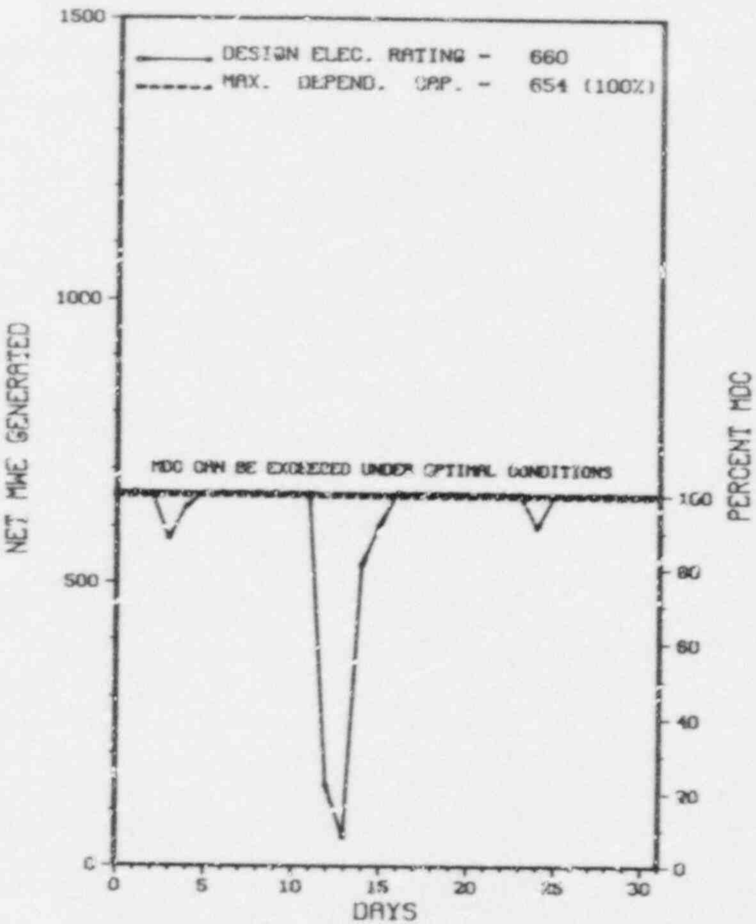
NONE

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

MILLSTONE 1

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

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* MILLSTONE 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-01	03/12/88	F	38.4	A	3	88-003	SJ	PS	THE "A" FEEDWATER PUMP LOW SUCTION PRESSURE SWITCH WAS REPLACED, RECALIBRATED AND TESTED SATISFACTORILY.

****
* SUMMARY *
****

MILLSTONE 1 INCURRED 1 OUTAGE IN MARCH FOR REASONS STATED ABOVE.

Type	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Error C-Refueling H-Other D-Regulatory Restriction E-Operator Training & License Examination	1-Manual 2-Manual Scram 3-Auto Scram 4-Continued 5-Reduced Load 9-Other	Exhibit F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-1161)

****
* MILLSTONE 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....CONNECTICUT

COUNTY.....NEW LONDON

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI SO 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

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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

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.

REPORTS FROM LICENSEE

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: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	107,520.0
13. Hours Reactor Critical	744.0	1,036.5	77,300.5
14. Rx Reserve Shtdwn Hrs	.0	.0	2,166.9
15. Hrs Generator On-Line	744.0	958.8	74,210.5
16. Unit Reserve Shtdwn Hrs	.0	.0	468.2
17. Gross Therm Ener (MWH)	2,006,818	2,446,448	189,766,439
18. Gross Elec Ener (MWH)	664,300	804,800	61,667,373
19. Net Elec Ener (MWH)	641,262	766,881	59,143,138
20. Unit Service Factor	100.0	43.9	69.0
21. Unit Avail Factor	100.0	43.9	69.5
22. Unit Cap Factor (MDC Net)	100.6	41.0	64.9*
23. Unit Cap Factor (DER Net)	99.1	40.4	63.9*
24. Unit Forced Outage Rate	.0	.0	15.0
25. Forced Outage Hours	.0	.0	11,785.4

26. Shutdowns Sched Over Next 6 Months (Type,Dat Juration):

NONE

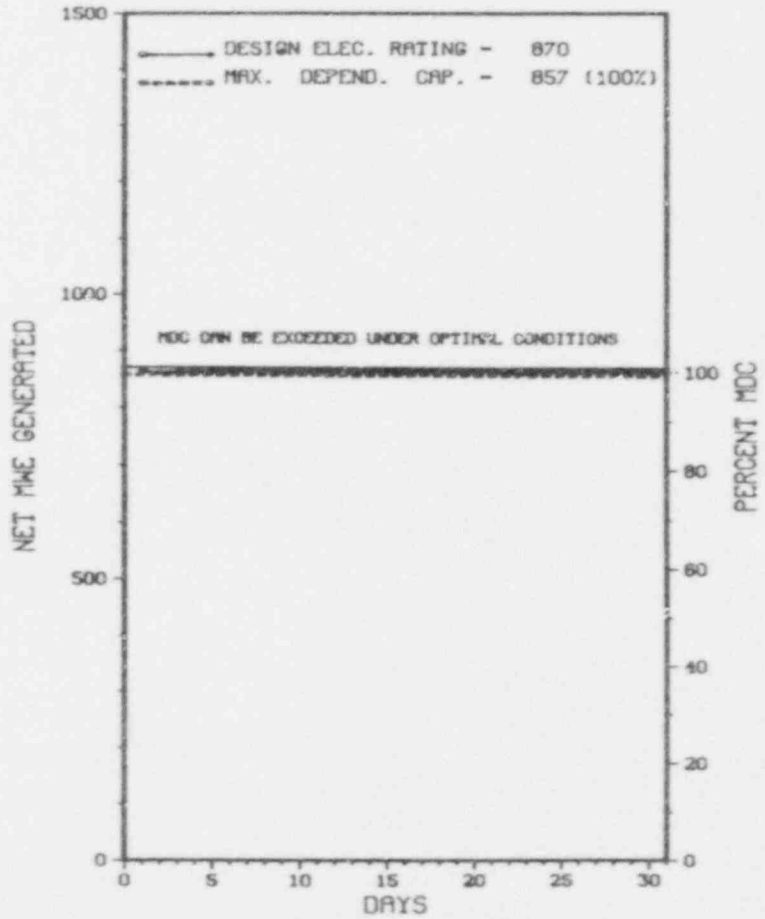
27. If Currently Shutdown Estimated Startup Date: N/A

* Item calculated with a Weighted Average

MILLSTONE 2

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* MILLSTONE 2 *
****

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

****
* SUMMARY *
****

MILLSTONE 2 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* MILLSTONE 2 *
****

FACILITY DATA

Report Period MAR 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

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INSPECTION STATUS

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/NDO 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 EEK, 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

****
* 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: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: A. ELMS (203) 444-5388

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1253

6. Design Electrical Rating (Net MWe): 1154

7. Maximum Dependable Capacity (Gross MWe): 1197

8. Maximum Dependable Capacity (Net MWe): 1142

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	17,016.0
13. Hours Reactor Critical	744.0	1,358.7	13,122.2
14. Rx Reserve Shtdwn Hrs	.0	.0	226.0
15. Hrs Generator On-Line	744.0	1,192.5	12,783.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,425,760	3,775,431	46,044,862
18. Gross Elec Ener (MWH)	882,105	1,344,397	14,553,667
19. Net Elec Ener (MWH)	846,263	1,269,011	13,873,088
20 Unit Service Factor	100.0	54.6	75.1
21. Unit Avail Factor	100.0	54.6	75.1
22. Unit Cap Factor (MDC Net)	99.6	50.9	71.4
23. Unit Cap Factor (DER Net)	98.6	50.4	70.6
24. Unit Forced Outage Rate	.0	3.0	8.0
25. Forced Outage Hours	.0	37.1	1,111.6

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

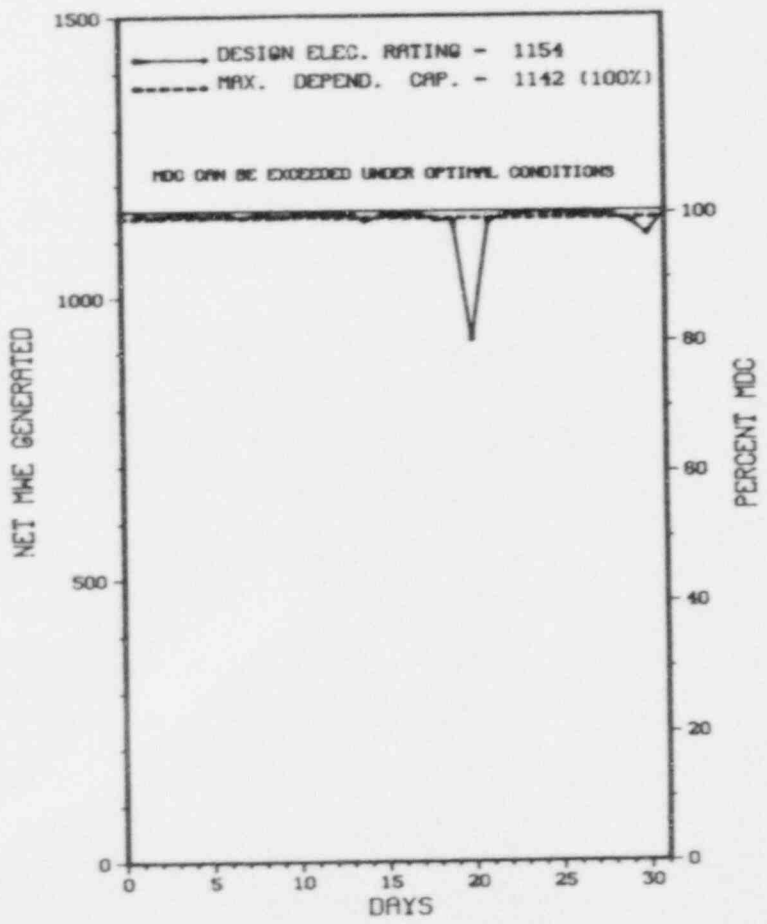
NONE

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

****
* MILLSTONE 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MILLSTONE 3



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

MILLSTONE 3

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

*** SUMMARY ***

MILLSTONE 3 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* MILLSTONE 3 *
****

FACILITY DATA

Report Period MAR 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

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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

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: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: A. L. Myrabo (612) 295-5151
4. Licensed Thermal Power (MWt): 1670
5. Nameplate Rating (Gross MWe): 632 X 0.9 = 569
6. Design Electrical Rating (Net MWe): 545
7. Maximum Dependable Capacity (Gross MWe): 564
8. Maximum Dependable Capacity (Net MWe): 536
9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	146,857.0
13. Hours Reactor Critical	744.0	2,184.0	114,421.0
14. Rx Reserve Shtdwn Hrs	.0	.0	940.7
15. Hrs Generator On-Line	744.0	2,184.0	112,197.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,241,530	3,629,173	179,307,247
18. Gross Elec Ener (MWH)	420,799	1,231,187	58,111,243
19. Net Elec Ener (MWH)	405,222	1,185,460	55,556,578
20. Unit Service Factor	100.0	100.0	76.4
21. Unit Avail Factor	100.0	100.0	76.4
22. Unit Cap Factor (MDC Net)	101.6	101.3	70.6
23. Unit Cap Factor (DER Net)	99.9	99.6	69.4
24. Unit Forced Outage Rate	.0	.0	4.4
25. Forced Outage Hours	.0	.0	1,498.3

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

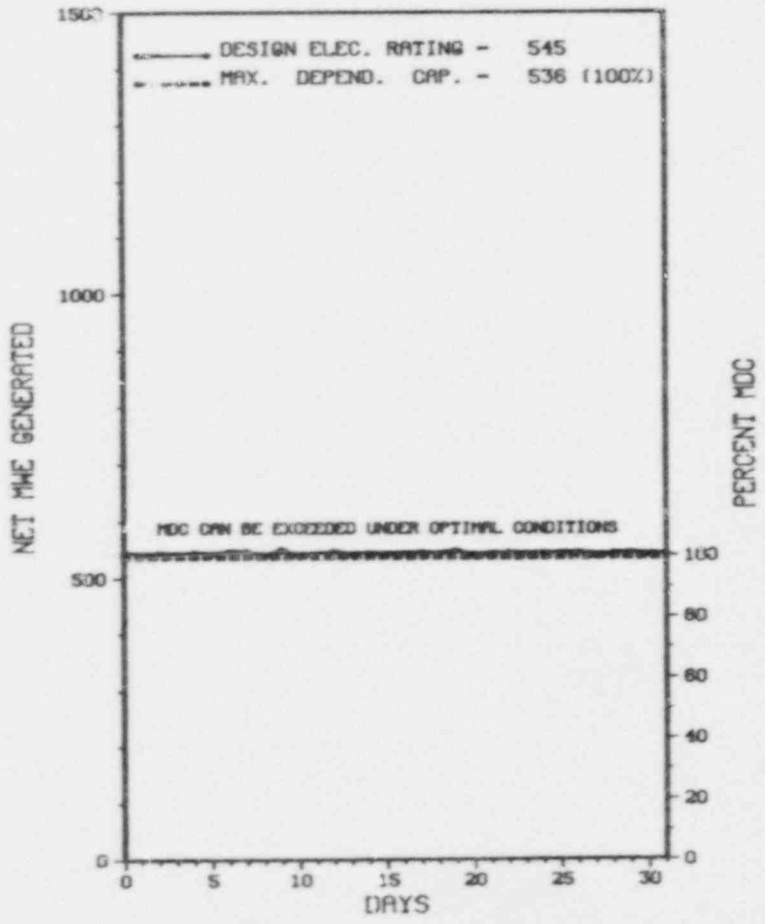
NONE

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

****
* MONTICELLO *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

MONTICELLO



MARCH 1988

Report Period MAR 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 MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* MONTICELLO *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....MINNESOTA

COUNTY.....WRIGHT

DIST AND DIRECTION FROM
NEAREST POPULATION CTR.... MI NW OF
MINNEAPOLIS, MN

TYPE OF REACTOR.....BI

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

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MINNEAPOLIS, MINNESOTA 55401

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON JANUARY 13 - FEBRUARY 23, 1988 (88003). A ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTORS OF PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY VERIFICATION; MAINTENANCE SURVEILLANCE; HIGH PRESSURE COOLANT INJECTION SYSTEM; REACTOR COOLANT INJECTION COOLING SYSTEM; RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM; RADIATION SURVEYS; AND LICENSEE EVENT REPORTS. OF THE NINE AREAS INSPECTED, NO VIOLATIONS AND NO SAFETY CONCERNS WERE IDENTIFIED.

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 INSTALLED 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

ENFORCEMENT SUMMARY

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 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 EP0 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

OTHER ITEMS

LAST IE SITE INSPECTION DATE: 02/23/[illegible]

INSPECTION REPORT NO: 88003

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-02	031488	041388	FAILURE TO PROVIDE FIRE WATCH DUE TO INADEQUATE PROCEDURES AND TRAINING

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1. Docket: 50-220 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: THOMAS W. ROMAN (315) 349-2422

4. Licensed Thermal Power (MWt): 1850

5. Nameplate Rating (Gross MWe): 755 X 0.85 = 642

6. Design Electrical Rating (Net MWe): 620

7. Maximum Dependable Capacity (Gross MWe): 630

8. Maximum Dependable Capacity (Net MWe): 610

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	161,424.0
13. Hours Reactor Critical	.0	.0	115,235.2
14. Rx Reserve Shtdwn Hrs	.0	.0	1,204.2
15. Hrs Generator On-Line	.0	.0	112,102.6
16. Unit Reserve Shtdwn Hrs	.0	.0	20.2
17. Gross Therm Ener (MWH)	0	0	188,473,049
18. Gross Elec Ener (MWH)	0	0	62,473,071
19. Net Elec Ener (MWH)	0	0	60,524,379
20. Unit Service Factor	.0	.0	69.4
21. Unit Avail Factor	.0	.0	69.5
22. Unit Cap Factor (MDC Net)	.0	.0	61.5
23. Unit Cap Factor (DER Net)	.0	.0	60.5
24. Unit Forced Outage Rate	.0	100.0	14.9
25. Forced Outage Hours	.0	516.0	15,047.9

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

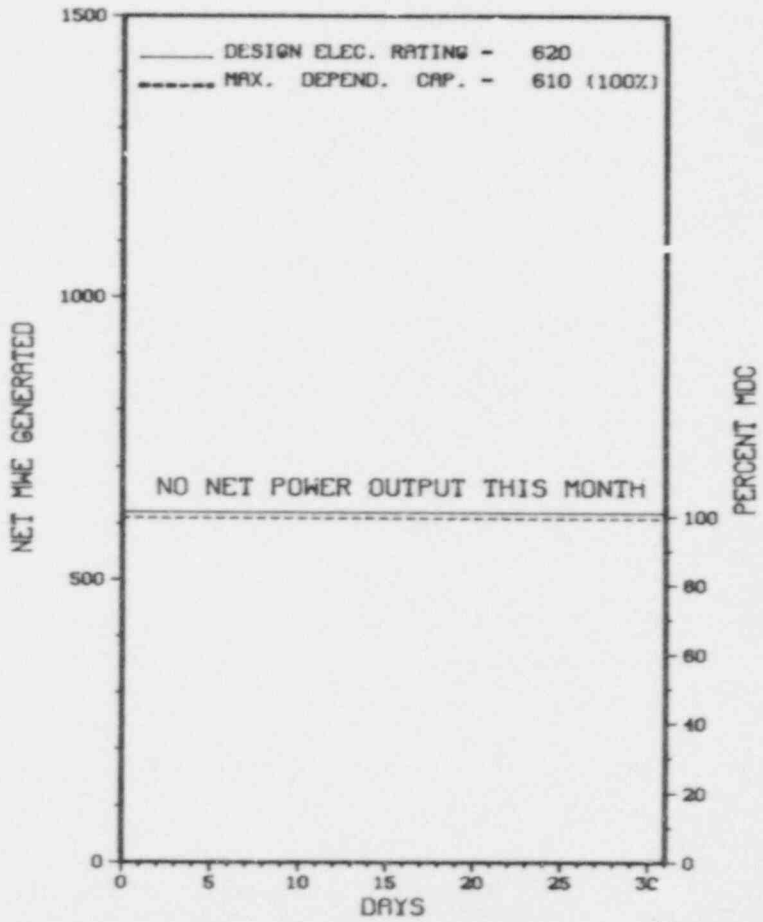
NONE

27. If Currently Shutdown Estimated Startup Date: 05/07/88

****
* NINE MILE POINT 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NINE MILE POINT 1



MARCH 1988

Report Period MAR 1988 U N I T S H U T D O W N S / R E D U C T I O N S

****
* 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	744.0	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 MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* NINE MILE POINT 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK

COUNTY.....OSWEGO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...8 MI NE OF
OSWEGO, NY

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...SEPTEMBER 5, 1969

DATE ELEC ENER 1ST GENER...NOVEMBER 9, 1969

DATE COMMERCIAL OPERATE....DECEMBER 1, 1969

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....LAKE ONTARIO

ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....NIAGARA MOHAWK POWER CORP.

CORPORATE ADDRESS.....300 ERIE BOULEVARD WEST
SYRACUSE, NEW YORK 13202

CONTRACTOR
ARCHITECT/ENGINEER.....NIAGARA MOHAWK POWER CORP.

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....S. HUDSON

LICENSING PROJ MANAGER.....R. BENEDICT
DOCKET NUMBER.....50-220

LICENSE & DATE ISSUANCE....DPR-63, DECEMBER 26, 1974

PUBLIC DOCUMENT ROOM.....STATE UNIVERSITY COLLEGE OF OSWEGO
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OSWEGO, NY 13126
(315) 341-2323

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 489.0

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	489.0	489.0	489.0
13. Hours Reactor Critical	304.4	304.4	304.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	272.0	272.0	272.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	893,359	893,359	893,359
18. Gross Elec Ener (MWH)	215,640	215,640	215,640
19. Net Elec Ener (MWH)	194,090	194,090	194,090
20. Unit Service Factor	55.6	55.6	55.6
21. Unit Avail Factor	55.6	55.6	55.6
22. Unit Cap Fzctor (MDC Net)	36.8	36.8	36.8
23. Unit Cap Factor (DER Net)	36.8	36.8	36.8
24. Unit Forced Outage Rate	44.4	44.4	44.4
25. Forced Outage Hours	217.0	217.0	217.0

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

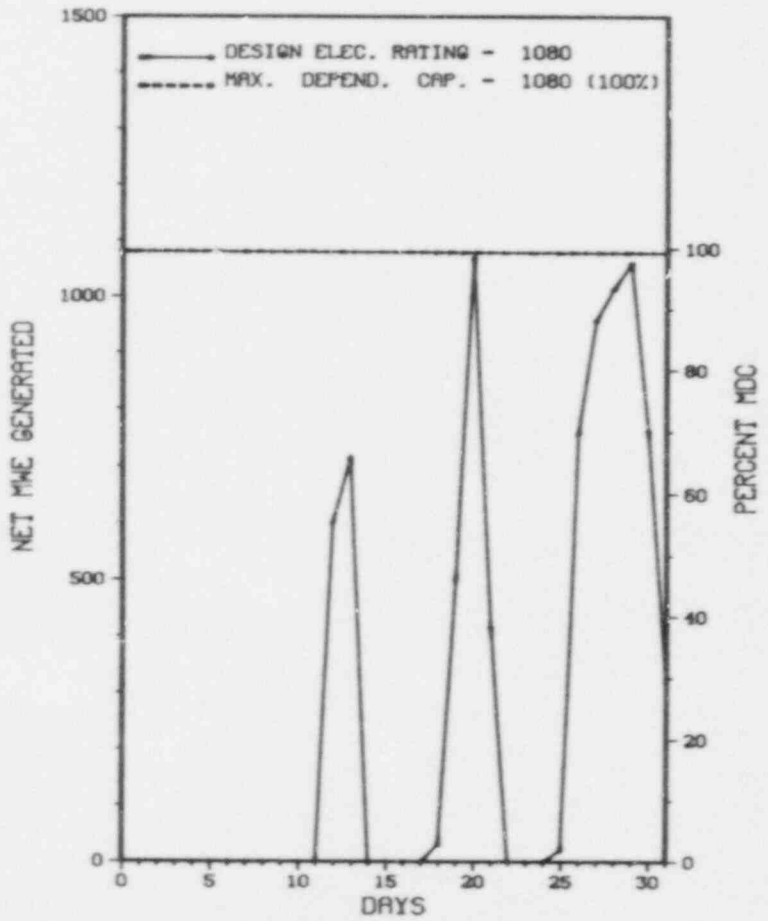
5/2/88-21 DAYS, MAINT/SURV 9/15/88-48 DAYS.

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

****
* NINE MILE POINT 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NINE MILE POINT 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* NINE MILE POINT 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-1	03/13/88	F	116.1	A	3	88-14	AD	PT/LT	A FAILED STEAM DOME PRESSURE TRANSMITTER CAUSED REACTOR RECIRC. PUMPS TO DOWN SHIFT DUE TO DELTA TEMP. LOGIC. THIS LEAD TO A SEQUENCE OF EVENTS THAT DROPPED REACTOR WATER LEVEL TO LVL 3 INITIATING A SCRAM.
88-2	03/21/88	F	100.9	G	3	88-17	SJ		I&C TECHNICIAN VALVED OUT A FEEDWATER FLOW TRANSMITTER FOR CALIBRATION, WHICH SENT A FALSE SIGNAL TO THE FEEDWATER CONTROL SYSTEM. THIS SIGNAL FAILURE RESULTED IN THE FEEDWATER SYSTEM INCREASING FLOW TO LVL 8 WHICH RESULTED IN A MAIN TURBINE TRIP AND REACTOR SCRAM ON TCV FAST CLOSURE.

****
* SUMMARY *
****

NINE MILE POINT 2 ENTERED COMMERCIAL OPERATION ON MARCH 11,1988, AND SUBSEQUENTLY, INCURRED TWO FORCED 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* NINE MILE POINT 2 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....NEW YORK

COUNTY.....OSWEGO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...8 MI NE OF
OSWEGO, NY

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...MAY 23, 1987

DATE ELEC ENER 1ST GENER...AUGUST 8, 1987

DATE COMMERCIAL OPERATE....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
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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

INSPECTION STATUS - (CONTINUED)

NINE MILE POINT 2

PLANT STATUS:

INFO. NOT SUPPLIED BY REGION

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

INSPECTION REPORT NO: INFO. NOT SUPPLIED BY REGION

REPORTS FROM LICENSEE

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: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: B. GARNER (703) 894-5151 X2527

4. Licensed Thermal Power (MWt): 2893

5. Nameplate Rating (Gross MWe): 947

6. Design Electrical Rating (Net MWe): 907

7. Maximum Dependable Capacity (Gross MWe): 963

8. Maximum Dependable Capacity (Net MWe): 915

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	86,089.0
13. Hours Reactor Critical	678.0	1,458.8	58,890.0
14. Rx Reserve Shtdwn Hrs	66.0	148.6	5,796.6
15. Hrs Generator On-Line	630.2	1,298.5	57,067.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,670,521	3,501,361	149,678,135
18. Gross Elec Ener (MWH)	553,740	1,156,593	49,060,481
19. Net Elec Ener (MWH)	524,729	1,096,198	46,390,792
20. Unit Service Factor	84.7	59.5	66.3
21. Unit Avail Factor	84.7	59.5	66.3
22. Unit Cap Factor (MDC Net)	77.1	54.9	58.9
23. Unit Cap Factor (DER Net)	77.8	55.3	59.4
24. Unit Forced Outage Rate	.0	37.3	15.8
25. Forced Outage Hours	.0	771.7	10,593.2

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

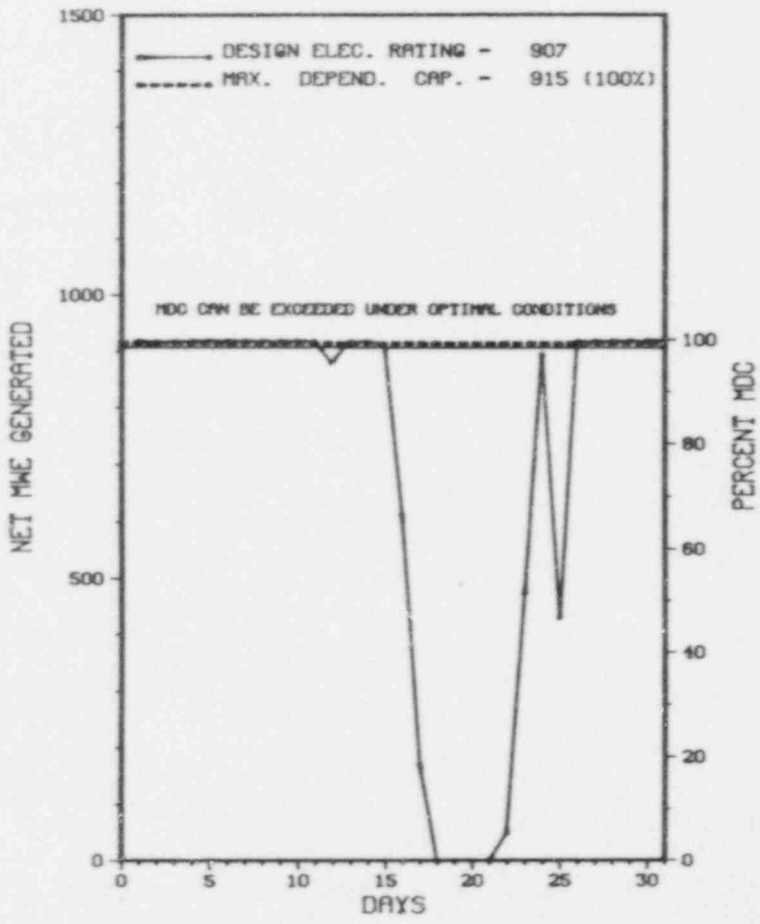
NONE

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

****
* NORTH ANNA 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NORTH ANNA 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* NORTH ANNA 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-03	03/16/88	S	0.0	B	5				COMMENCED RAMPDOWN TO 30% POWER, DUE TO EXCEEDING ACTION LEVEL II ON STEAM GENERATION CATIONS AND SODIUMS.
88-04	03/17/88	S	113.8	B	1	88-013	IT	PR	MARCH 17, 1988, COMMENCED TO RAMPDOWN TO 0% POWER, TO TEST COMPONENT COOLING TRIP VALVES ON 'C' REACTOR COOLANT PUMP. MARCH 19, AT 0133, A REACTOR TRIP OCCURRED DUE TO A FIRST STAGE PRESSURE SPIKE EXPERIENCED DURING TURBINE ROLL-UP. REPAIRS WERE COMPLETED AND UNIT RETURNED ON LINE MARCH 22, 1988 AT 1700.

****
* SUMMARY *
****

NORTH ANNA 1 INCURRED 1 POWER REDUCTION AND 1 OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

FACILITY DATA

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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION SEPTEMBER 28 - OCTOBER 2 (87-33): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF REVIEW OF THE CONTAINMENT ISOLATION SYSTEM LOCAL LEAK RATE PROGRAM INCLUDING REVIEW OF TEST PROCEDURES, VALVE ALIGNMENTS AND OBSERVATION OF TESTING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION DECEMBER 19 - JANUARY 15 (87-42): THIS ROUTINE INSPECTION BY THE RESIDENT INSPECTORS INVOLVED THE FOLLOWING AREAS: PLANT STATUS, LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, LICENSEE EVENT REPORT (LER FOLLOWUP), MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, OPERATOR SAFETY VERIFICATION, AND OPERATING REACTOR EVENTS. DURING THE PERFORMANCE OF THIS INSPECTION, THE RESIDENT INSPECTORS CONDUCTED REVIEWS OF THELICENSEE'S BACKSHIFT OPERATIONS ON DECEMBER 26 AND 30, 1987 AND JANUARY 4, 5, 6, 13, 14 AND 15, 1988. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 16 - FEBRUARY 23 (88-01): THIS ROUTINE INSPECTION BY THE RESIDENT INSPECTORS INVOLVED THE FOLLOWING AREAS: PLANT STATUS, UNRESOLVED ITEMS, LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, LICENSEE EVENT REPORT (LER) FOLLOWUP, REVIEW OF INSPECTOR FOLLOW-UP ITEMS, MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, ESF WALKDOWN, AND OPERATOR SAFETY VERIFICATION. DURING THE PERFORMANCE OF THIS INSPECTION, THE RESIDENT INSPECTORS CONDUCTED REVIEWS OF THE LICENSEE'S BACKSHIFT OPERATIONS ON THE FOLLOWING DAYS - JANUARY 18, 24, 28, 29, 31, FEBRUARY 1, 2, 3, 5, 6, 9, 11, 12, 15 AND 16. ONE VIOLATION WITH TWO EXAMPLES FOR FAILURE TO FOLLOW PROCEDURE AND FAILURE TO HAVE AN ADEQUATE PROCEDURE.

INSPECTION JANUARY 25-29 AND FEBRUARY 8-12 (88-02): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF QUALITY ASSURANCE EFFECTIVENESS. THREE VIOLATIONS WERE IDENTIFIED - FAILURE TO ADEQUATELY IMPLEMENT THE INSERVICE TESTING PROGRAM; FAILURE TO CONDUCT ADEQUATE AUDITS; AND FAILURE TO PERFORM A DOCUMENTED DESIGN ANALYSIS WITH SUPPORTING CALCULATIONS AND TO

INSPECTION SUMMARY

DOCUMENT A DESIGN CHANGE. ONE UNRESOLVED ITEM WAS IDENTIFED CONCERNING FAILURE OF THE LICENSEE TO PROPERLY CONTROL ENTRY INTO POSTED HIGH RADIATION AREAS.

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:

+ 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: JANUARY 25-29 - FEBRUARY 8-12, 1988 +

INSPECTION REPORT NO: 50-338/88-02 +

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-004	01/13/88	03/16/88	RESIN INTRUSION INTO THE SECONDARY SIDE WATER SYSTEM
88-007	01/26/88	02/24/88	UNIDENTIFIED FIRE BARRIER PENETRATIONS; INADEQUATE DESIGN CONST CONTROLS DURING INITIAL CONST OF STATION
88-008	02/02/88	02/24/88	INADVERTANT PORV ACTUATION DURING SOLID WATER OPERATIONS
88-009	02/11/88	03/10/88	MISSED SURVEILLANCE ON A BLOWDONW ISOLATION TRIP VALVE - INSIDE CONTAINMENT

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: B. GARNER (70,) 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	744.0	2,184.0	63,960.0
13. Hours Reactor Critical	744.0	2,134.3	50,595.7
14. Rx Reserve Shtdwn Hrs	.0	69.1	4,093.1
15. Hrs Generator On-Line	744.0	2,108.2	49,536.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,150,968	6,062,565	130,385,319
18. Gross Elec Ener (MWH)	718,025	2,018,961	43,246,142
19. Net Elec Ener (MWH)	683,075	1,920,657	40,979,015
20. Unit Service Factor	100.0	96.5	77.4
21. Unit Avail Factor	100.0	96.5	77.4
22. Unit Cap Factor (MDC Net)	100.3	96.1	70.0
23. Unit Cap Factor (DER Net)	101.2	97.0	70.6
24. Unit Forced Outage Rate	.0	.0	8.8
25. Forced Outage Hours	.0	.0	4,768.9

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

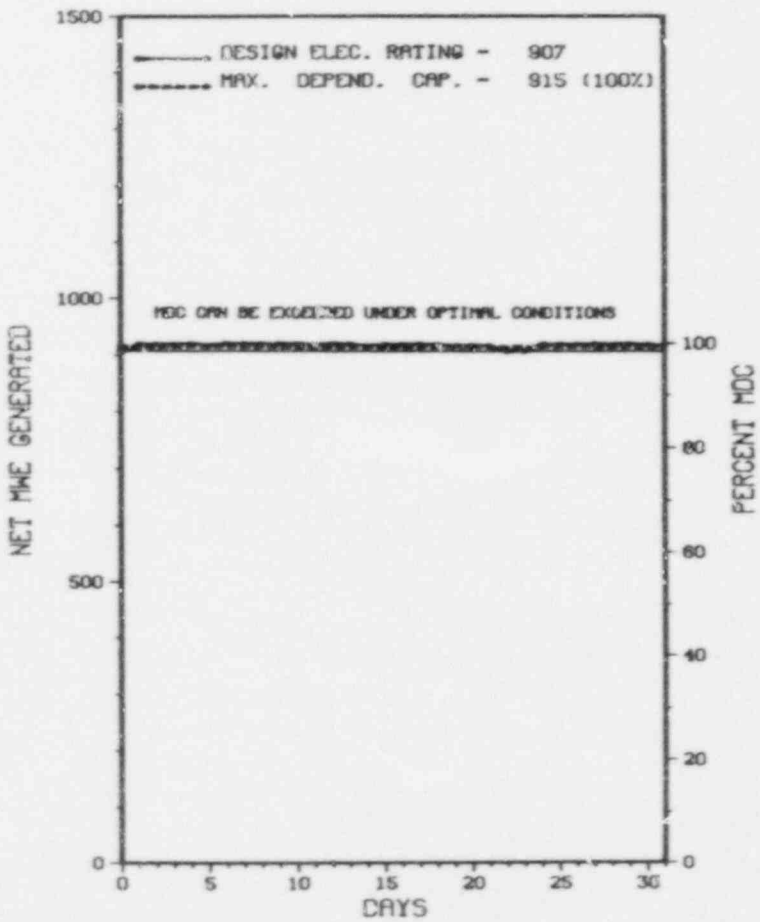
NONE

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

****
* NORTH ANNA 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

NORTH ANNA 2



MARCH 1988

Report Period MAR 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 MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* NORTH ANNA 2 *
****

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

Report Period MAR 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

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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 SEPTEMBER 28 - OCTOBER 2 (87-33): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF REVIEW OF THE CONTAINMENT ISOLATION SYSTEM LOCAL LEAK RATE PROGRAM INCLUDING REVIEW OF TEST PROCEDURES, VALVE ALIGNMENTS AND OBSERVATION OF TESTING. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION DECEMBER 19 - JANUARY 15 (87-42): THIS ROUTINE INSPECTION BY THE RESIDENT INSPECTORS INVOLVED THE FOLLOWING AREAS: PLANT STATUS, LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, LICENSEE EVENT REPORT (LER FOLLOWUP), MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, OPERATOR SAFETY VERIFICATION, AND OPERATING REACTOR EVENTS. DURING THE PERFORMANCE OF THIS INSPECTION, THE RESIDENT INSPECTORS CONDUCTED REVIEWS OF THELICENSEE'S BACKSHIFT OPERATIONS ON DECEMBER 26 AND 30, 1987 AND JANUARY 4, 5, 6, 13, 14 AND 15, 1988. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JANUARY 16 - FEBRUARY 23 (88-01): THIS ROUTINE INSPECTION BY THE RESIDENT INSPECTORS INVOLVED THE FOLLOWING AREAS: PLANT STATUS, UNRESOLVED ITEMS, LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, LICENSEE EVENT REPORT (LER) FOLLOWUP, REVIEW OF INSPECTOR FOLLOW-UP ITEMS, MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, ESF WALKDOWN, AND OPERATOR SAFETY VERIFICATION. DURING THE PERFORMANCE OF THIS INSPECTION, THE RESIDENT INSPECTORS CONDUCTED REVIEWS OF THE LICENSEE'S BACKSHIFT OPERATIONS ON THE FOLLOWING DAYS - JANUARY 18, 24, 28, 29, 31, FEBRUARY 1, 2, 3, 5, 6, 9, 11, 12, 15 AND 16. ONE VIOLATION WITH TWO EXAMPLES FOR FAILURE TO FOLLOW PROCEDURE AND FAILURE TO HAVE AN ADEQUATE PROCEDURE.

INSPECTION JANUARY 25-29 AND FEBRUARY 8-12 (88-02): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF QUALITY ASSURANCE EFFECTIVENESS. THREE VIOLATIONS WERE IDENTIFIED - FAILURE TO ADEQUATELY IMPLEMENT THE INSERVICE TESTING PROGRAM; FAILURE TO CONDUCT ADEQUATE AUDITS; AND FAILURE TO PERFORM A DOCUMENTED DESIGN ANALYSIS WITH SUPPORTING CALCULATIONS AND TO

****
* NORTH ANNA 2 *
****

INSPECTION SUMMARY

DOCUMENT A DESIGN CHANGE. ONE UNRESOLVED ITEM WAS IDENTIFED CONCERNING FAILURE OF THE LICENSEE TO PROPERLY CONTROL ENTRY INTO POSTED HIGH RADIATION AREAS.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ 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: JANUARY 25-29 - FEBRUARY 8-12, 1988 +

INSPECTION REPORT NO: 50-338/88-02 +

REPORTS FROM LICENSEE

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: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	128,953.0
13. Hours Reactor Critical	744.0	2,184.0	95,493.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,184.0	91,881.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,898,880	5,447,016	221,932,081
18. Gross Elec Ener (MWH)	659,709	1,885,578	76,993,235
19. Net Elec Ener (MWH)	631,582	1,802,770	73,013,875
20. Unit Service Factor	100.0	100.0	71.3
21. Unit Avail Factor	100.0	100.0	71.3
22. Unit Cap Factor (MDC Net)	100.3	97.6	65.7*
23. Unit Cap Factor (DER Net)	95.7	93.1	63.9*
24. Unit Forced Outage Rate	.0	.0	13.6
25. Forced Outage Hours	.0	.0	13,514.7

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

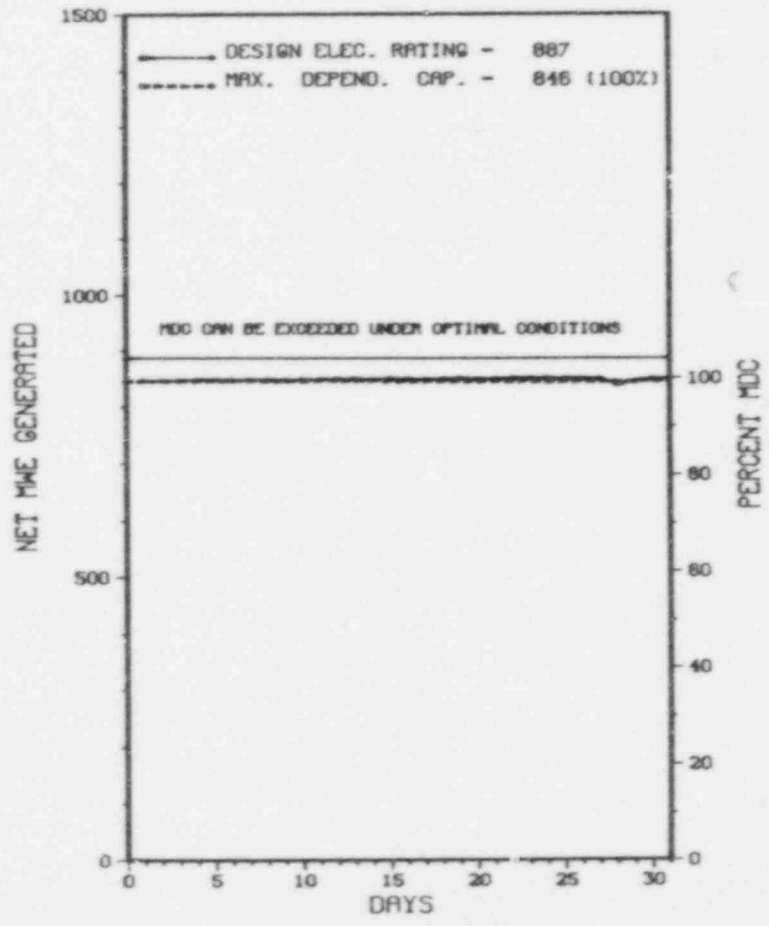
NONE

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

****
* OCONEE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

OCONEE 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
5-P	03/27/88	F	0.0	A	5		HJ	PUMPXX	HIGH BEARING TEMPERATURE ON "1E1" HEATER DRAIN PUMP.

SUMMARY

OCONEE 1 EXPERIENCED 1 POWER REDUCTION IN MARCH 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-Refueli	H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction		4-Continued	Data Entry Sheet
	E-Operator Training & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* OCONEE 1 *
****

FACILITY DATA

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 FEBRUARY 16-25 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) OF OCONEE UNIT-2, INCLUDING EDDY CURRENT TESTING (ET) OF ONCE THROUGH STEAM GENERATOR (OTSG) TUBES, ULTRASONIC EXAMINATION (UT) OF REACTOR VESSEL FLANGE TO SHELL WELD AND SAFETY-RELATED PIPING; RADIOGRAPHIC EXAMINATION OF OTHER PIPE WELDS; FEEDWATER NOZZLE SPRAY HEAD REPLACEMENT; OTSG NOZZLE DAM RETENTION RING INSTALLATION; PIPE/FITTING EROSION INSPECTION; AND VALVE MAINTENANCE. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 17 - MARCH 16 (88-05): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, PHYSICAL SECURITY, ENGINEERED SAFEGUARDS FEATURES LINEUPS, NONROUTINE REPORTING AND DESIGN CHANGES. OF THE SEVEN AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 18 (88-06): THIS ANNOUNCED PHYSICAL SECURITY INSPECTION WAS CONDUCTED TO REVIEW THE GENERAL REQUIREMENTS FOR THE PHYSICAL PROTECTION OF IRRADIATED REACTOR FUEL DURING TRANSPORTATION BETWEEN LICENSEE SITES. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REGULATIONS AND ITS SPENT FUEL TRANSPORTATION PLAN.

INSPECTION MARCH 7-11 (88-07): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) INCLUDING NONDESTRUCTIVE EXAMINATION (NDE) PROCEDURES REVIEW, IN-PROCESS EXAMINATIONS OBSERVATIONS, EXAMINATION DATA REVIEW, AND EQUIPMENT AND PERSONNEL CERTIFICATION RECORDS REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

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* OCONEE 1 *
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ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

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

INSPECTION REPORT NO: 50-269/88-07 +

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
88-001	01/07/88	03/04/88	TECHNICAL SPECIFICATION VIOLATIONS DUE TO MISSED ASME SECTION XI TESTING RESULTING FROM MANAGEMENT DEFICIENCY
88-002	02/09/88	03/10/88	VIOLATION OF TECHNICAL SPECIFICATIONS DUE TO MISSED INSERVICE TESTING OF VALVES RESULTING FROM PERSONNEL ERROR
88-003	02/11/88	03/14/88	VIOLATION OF TECH SPEC DUE TO MANAGEMENT DEFICIENCY IN THE CONTROL OF OFFSITE DOSE CALCULATIONS

1. Docket: 50-270 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	118,873.0
13. Hours Reactor Critical	.0	797.4	89,494.1
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	796.1	88,089.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	1,736,808	209,376,909
18. Gross Elec Ener (MWH)	0	580,690	71,263,371
19. Net Elec Ener (MWH)	-1,950	546,312	67,743,630
20. Unit Service Factor	.0	36.5	74.1
21. Unit Avail Factor	.0	36.5	74.1
22. Unit Cap Factor (MDC Net)	.0	29.6	66.1*
23. Unit Cap Factor (DER Net)	.0	28.2	64.3*
24. Unit Forced Outage Rate	.0	.0	11.8
25. Forced Outage Hours	.0	.0	10,963.0

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

NONE

27. If Currently Shutdown Estimated Startup Date: 04/10/88

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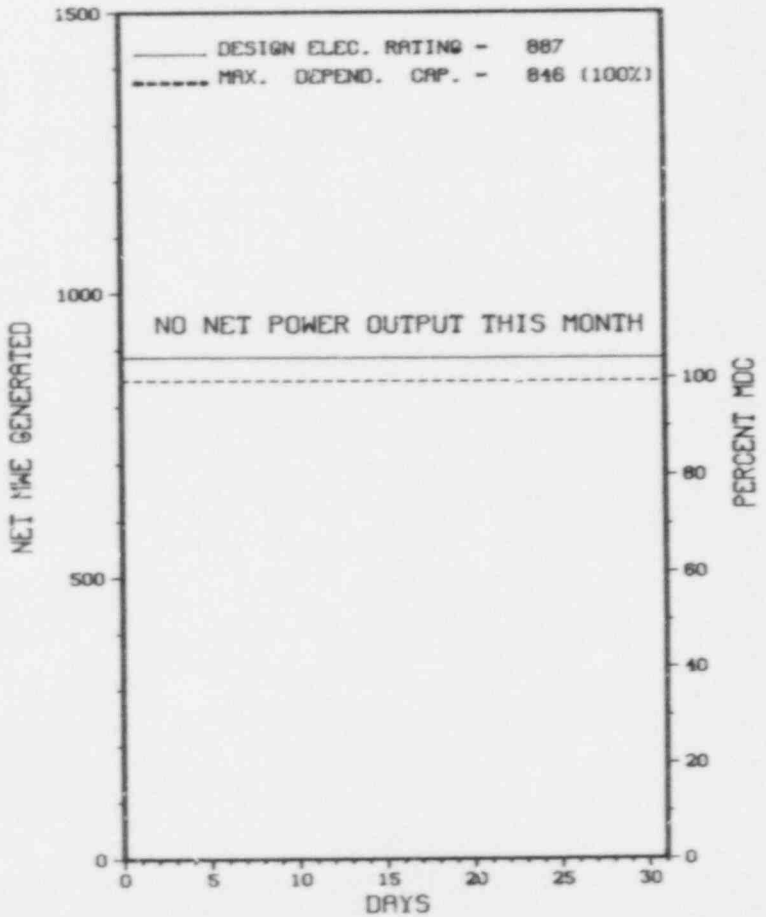
* OCONEE 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 2



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

OCONEE 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/01/88	S	744.0	C	1		RC	FUELXX	NORMAL REFUELING.

SUMMARY

OCONEE 2 REMAINED SHUTDOWN IN MARCH 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)

****
* OCONEE 2 *
****

FACILITY DATA

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

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501 W. SOUTH BROAD ST.
WALHALLA, SOUTH CAROLINA 29691

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 16-25 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) OF OCONEE UNIT-2, INCLUDING EDDY CURRENT TESTING (ET) OF ONCE THROUGH STEAM GENERATOR (OTSG) TUBES, ULTRASONIC EXAMINATION (UT) OF REACTOR VESSEL FLANGE TO SHELL WELD AND SAFETY-RELATED PIPING; RADIOGRAPHIC EXAMINATION OF OTHER PIPE WELDS; FEEDWATER NOZZLE SPRAY HEAD REPLACEMENT; OTSG NOZZLE DAM RETENTION RING INSTALLATION; PIPE/FITTING EROSION INSPECTION; AND VALVE MAINTENANCE. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 17 - MARCH 16 (88-05): THIS ROUTINE ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, PHYSICAL SECURITY, ENGINEERED SAFEGUARDS FEATURES LINEUPS, NONROUTINE REPORTING AND DESIGN CHANGES. OF THE SEVEN AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 18 (88-06): THIS ANNOUNCED PHYSICAL SECURITY INSPECTION WAS CONDUCTED TO REVIEW THE GENERAL REQUIREMENTS FOR THE PHYSICAL PROTECTION OF IRRADIATED REACTOR FUEL DURING TRANSPORTATION BETWEEN LICENSEE SITES. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REGULATIONS AND ITS SPENT FUEL TRANSPORTATION PLAN.

INSPECTION MARCH 7-11 (88-07): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) INCLUDING NONDESTRUCTIVE EXAMINATION (NDE) PROCEDURES REVIEW, IN-PROCESS EXAMINATIONS OBSERVATIONS, EXAMINATION DATA REVIEW, AND EQUIPMENT AND PERSONNEL CERTIFICATION RECORDS REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

****
* OCONEE 2 *
****

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

POWER OPERATION.

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

INSPECTION REPORT NO: 50-270/88-07 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	02/22/88	03/23/88	SEISMIC INOPERABILITY OF A VITAL POWER INVERTER DUE TO A DESIGN DEFICIENCY

1. Docket: 50-287 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 2568

5. Nameplate Rating (Gross MWe): 1038 X 0.9 = 934

6. Design Electrical Rating (Net MWe): 887

7. Maximum Dependable Capacity (Gross MWe): 899

8. Maximum Dependable Capacity (Net MWe): 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	744.0	2,184.0	116,520.0
13. Hours Reactor Critical	744.0	2,184.0	85,533.1
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,184.0	84,169.9
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,896,408	5,545,032	206,444,493
18. Gross Elec Ener (MWH)	659,629	1,921,261	71,131,806
19. Net Elec Ener (MWH)	633,093	1,843,206	67,771,836
20. Unit Service Factor	100.0	100.0	72.2
21. Unit Avail Factor	100.0	100.0	72.2
22. Unit Cap Factor (MDC Net)	100.6	99.8	67.5*
23. Unit Cap Factor (DER Net)	95.9	95.1	65.7*
24. Unit Forced Outage Rate	0	.0	12.9
25. Forced Outage Hours	.0	.0	12,625.3

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

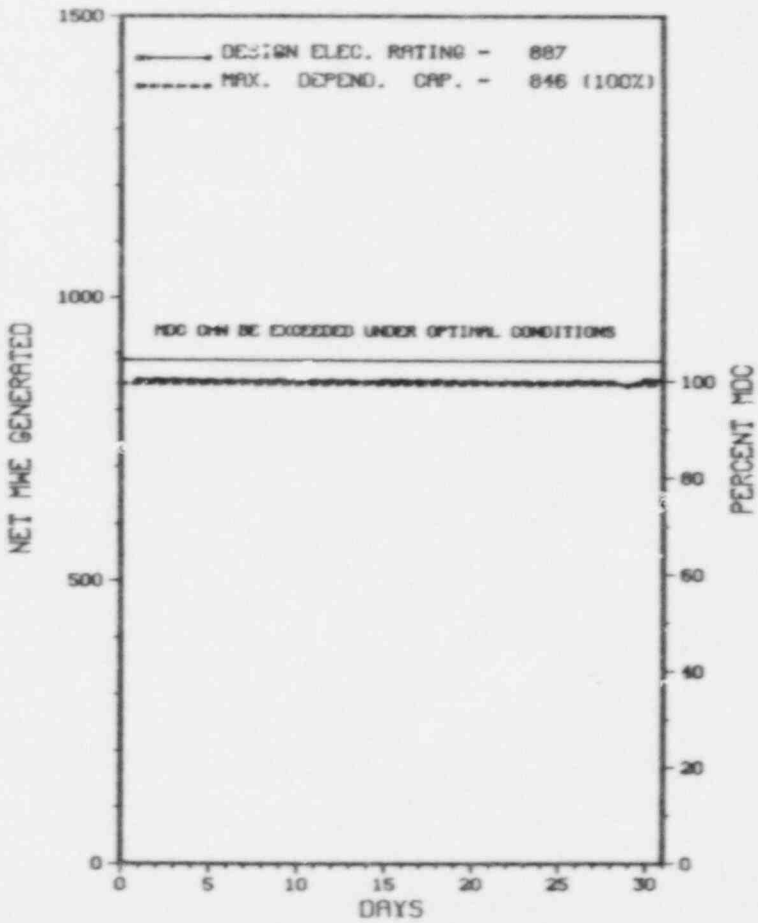
REFUELING - AUGUST 3, 1988 - 7 WEEK DURATION.

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

****
* OCONEE 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OCONEE 3



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* OCONEE 3 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3-P	03/29/88	F	0.0	A	5		RB	CONROD	INTEGRATED CONTROL SYSTEM ASYMMETRIC ROD RUNBACK.
4-P	03/29/88	F	0.0	B	5		IE	INSTRU	POWER REDUCTION ON HOLD FOR NUCLEAR INSTRUMENTATION CALIBRATION.

****
* SUMMARY *
****

OCONEE 3 INCURRED 2 POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

FACILITY DATA

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 FEBRUARY 16-25 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) OF OCONEE UNIT-2, INCLUDING EDDY CURRENT TESTING (ET) OF ONCE THROUGH STEAM GENERATOR (OTSG) TUBES, ULTRASONIC EXAMINATION (UT) OF REACTOR VESSEL FLANGE TO SHELL WELD AND SAFETY-RELATED PIPING; RADIOGRAPHIC EXAMINATION OF OTHER PIPE WELDS; FEEDWATER NOZZLE SPRAY HEAD REPLACEMENT; OTSG NOZZLE DAM RETENTION RING INSTALLATION; PIPE/FITTING EROSION INSPECTION; AND VALVE MAINTENANCE. IN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 17 - MARCH 16 (88-05): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED RESIDENT INSPECTION ON-SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, PHYSICAL SECURITY, ENGINEERED SAFEGUARDS FEATURES LINEUPS, NONROUTINE REPORTING AND DESIGN CHANGES. OF THE SEVEN AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 18 (88-06): THIS ANNOUNCED PHYSICAL SECURITY INSPECTION WAS CONDUCTED TO REVIEW THE GENERAL REQUIREMENTS FOR THE PHYSICAL PROTECTION OF IRRADIATED REACTOR FUEL DURING TRANSPORTATION BETWEEN LICENSEE SITES. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REGULATIONS AND ITS SPENT FUEL TRANSPORTATION PLAN.

INSPECTION MARCH 7-11 (88-07): THIS ROUTINE, ANNOUNCED INSPECTION WAS IN THE AREAS OF INSERVICE INSPECTION (ISI) INCLUDING NONDESTRUCTIVE EXAMINATION (NDE) PROCEDURES REVIEW, IN-PROCESS EXAMINATIONS OBSERVATIONS, EXAMINATION DATA REVIEW, AND EQUIPMENT AND PERSONNEL CERTIFICATION RECORDS REVIEW. 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:

POWER OPERATION.

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

INSPECTION REPORT NO: 50-287/88-07 +

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: 03/01/88 Outage + On-line Hrs: 744.0

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

4. Licensed Thermal Power (MWt): 1930

5. Nameplate Rating (Gross MWe): 687.5 X .98 = 674

6. Design Electrical Rating (Net MWe): 650

7. Maximum Dependable Capacity (Gross MWe): 650

8. Maximum Dependable Capacity (Net MWe): 620

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	160,176.0
13. Hours Reactor Critical	744.0	2,184.0	103,335.5
14. Rx Reserve Shtdwn Hrs	.0	.0	1,208.0
15. Hrs Generator On-Line	744.0	2,184.0	99,975.9
16. Unit Reserve Shtdwn Hrs	.0	.0	1,761.4
17. Gross Therm Ener (MWH)	1,421,000	4,160,000	166,924,408
18. Gross Elec Ener (MWH)	490,320	1,435,390	56,353,744
19. Net Elec Ener (MWH)	472,800	1,384,149	54,107,037
20. Unit Service Factor	100.0	100.0	62.4
21. Unit Avail Factor	100.0	100.0	63.5
22. Unit Cap Factor (MDC Net)	102.5	102.2	54.5*
23. Unit Cap Factor (DER Net)	97.8	97.5	52.0
24. Unit Forced Outage Rate	.0	.0	14.1
25. Forced Outage Hours	.0	.0	14,446.5

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

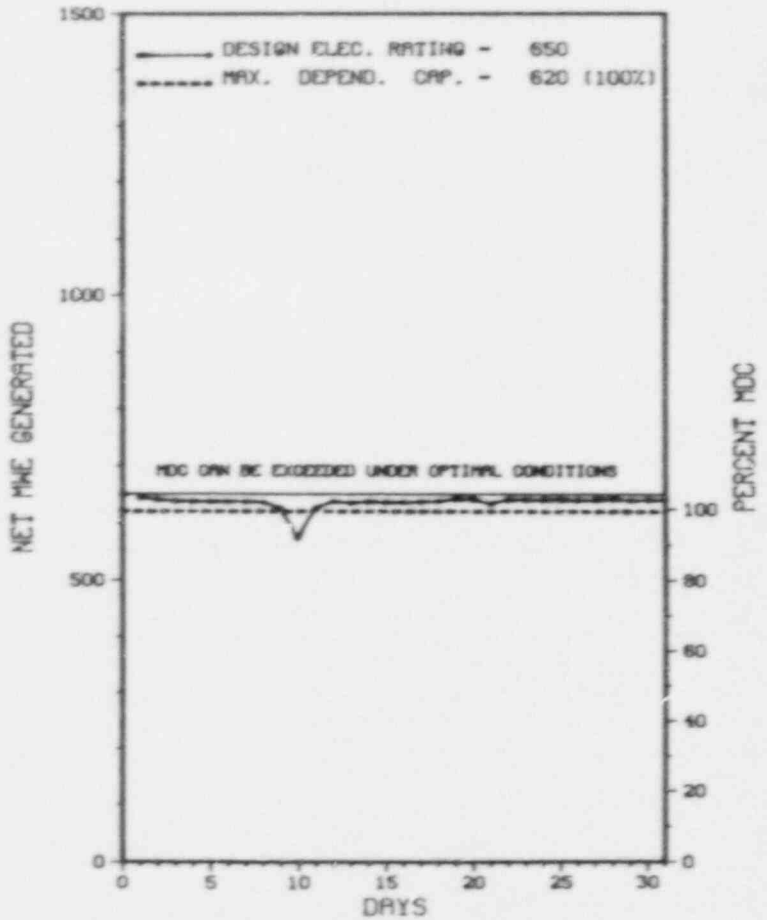
NONE

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

****
* OYSTER CREEK 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

OYSTER CREEK 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1985

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 MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* OYSTER CREEK 1 *
****

FACILITY DATA

Report Period MAR 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 WECHSELBERGR

LICENSING PROJ MANAGER.....A. DROMERICK
DOCKET NUMBER.....50-219

LICENSE & DATE ISSUANCE....DPR-16, AUGUST 1, 1969

PUBLIC DOCUMENT ROOM.....OCEAN COUNTY LIBRARY
101 WASHINGTON STREET
TOMS RIVER, NEW JERSEY 08753

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

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):

OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-255 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: G. C. PACKARD (616) 764-8913

4. Licensed Thermal Power (MWt): 2530

5. Nameplate Rating (Gross MWe): 955 X 0.85 = 812

6. Design Electrical Rating (Net MWe): 805

7. Maximum Dependable Capacity (Gross MWe): 770

8. Maximum Dependable Capacity (Net MWe): 730

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	142,743.0
13. Hours Reactor Critical	744.0	1,574.2	75,55?.7
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,544.8	71,811.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,878,312	3,567,792	150,755,709
18. Gross Elec Ener (MWH)	608,670	1,154,835	47,065,355
19. Net Elec Ener (MWH)	578,607	1,093,120	44,310,154
20. Unit Service Factor	100.0	70.7	50.3
21. Unit Avail Factor	100.0	70.7	50.3
22. Unit Cap Factor (MDC Net)	106.5	68.6	42.5
23. Unit Cap Factor (DER Net)	96.6	62.2	38.6
24. Unit Forced Outage Rate	.0	29.3	35.8
25. Forced Outage Hours	.0	639.2	25,898.7

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

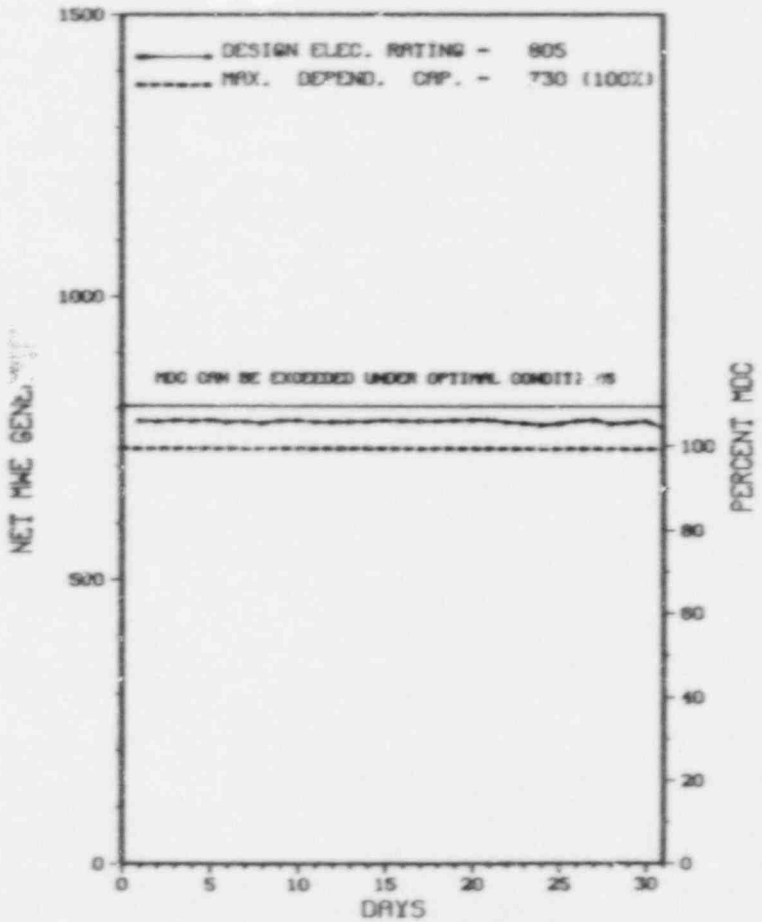
REFUELING, SEPTEMBER 9, 1988, 87 DAY DURATION.

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

****
* PALISADES *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALISADES



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* PALISADES *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
18	03/31/88	S	0.0	A	5				POWER REDUCTION TO REPAIR CONDENSER TUBE LEAK.

****
* SUMMARY *
****

PALISADES INCURRED 1 POWER REDUCTION IN MARCH TO REPAIR CONDENSER TUBE LEAK.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PALISADES *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....MICHIGAN

COUNTY.....VANBUREN

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI S OF
SOUTH HAVEN, MI

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 24, 1971

DATE ELEC ENER 1ST GENER...DECEMBER 31, 1971

DATE COMMERCIAL OPERATE....DECEMBER 31, 1971

CONDENSER COOLING METHOD...COOLING TOWERS

CONDENSER COOLING WATER....LAKE MICHIGAN

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....CONSUMERS POWER

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

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....E. SWANSON

LICENSING PROJ MANAGER.....T. WAMBACH
DOCKET NUMBER.....50-255

LICENSE & DATE ISSUANCE....DPR-20, OCTOBER 16, 1972

PUBLIC DOCUMENT ROOM.....VAN ZOEREN LIBRARY
HOPE COLLEGE
HOLLAND, MICHIGAN 49423

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION BETWEEN OCTOBER 22, 1987 AND JANUARY 27, 1988 (88003). SPECIAL INSPECTION PERTAINING TO FOUR ALLEGATIONS RELATING TO THE LICENSEE'S FITNESS FOR DUTY PROGRAM. THE ALLEGATIONS INCLUDED: (1) SOME PLANT PERSONNEL ON THE MIDNIGHT SHIFT WERE ABUSING DRUGS OR ALCOHOL AND WOULD BE ADVISED BY AN ANONYMOUS PERSON NOT TO COME TO WORK ON OCTOBER 20, 1987; (2) SELECTION OF PERSONNEL FOR DRUG/ALCOHOL TESTING ON OCTOBER 20, 1987, WAS NOT CONDUCTED ON A RANDOM BASIS; (3) EXISTING CONTROLS FOR URINE SAMPLE COLLECTION COULD ALLOW SUBSTITUTE SAMPLES BEING PROVIDED FOR TESTING PURPOSES; (4) TESTING FOR ALCOHOL USE WAS NOT COMPLETED IN A TIMELY MANNER DURING FITNESS FOR DUTY TESTING CONDUCTED ON OCTOBER 20, 1987. THE LICENSEE COMPLIED WITH THE PROVISIONS OF THEIR FITNESS FOR DUTY (FFD) POLICY AND PROCEDURE DURING TESTING CONDUCTED ON OCTOBER 20, 1987. THE ALLEGATION THAT PERSONNEL WERE NOT RANDOMLY SELECTED FOR FFD TESTING WAS SUBSTANTIATED, BUT THE LICENSEE'S FFD POLICY AND PROCEDURE DOES NOT REQUIRE "RANDOM" SELECTION OF PERSONNEL. OBSERVATIONS WERE NOTED WHICH WOULD STRENGTHEN CONTROLS TO FURTHER PREVENT THE POSSIBILITY OF PROVIDING SUBSTITUTE URINE SAMPLES DURING FFD TESTING. THE LICENSEE'S CRITERIA IN REFERENCE TO INITIATING AN INVESTIGATION FOR DRUG ABUSE ALLEGATIONS WERE CONSIDERED LENIENT. THE LICENSEE HAS BEEN REQUESTED TO RESPOND TO THE OBSERVATIONS PERTAINING TO URINE SAMPLE COLLECTION CONTROLS AND INVESTIGATION CRITERIA FOR DRUG RELATED ALLEGATIONS.

INSPECTION ON FEBRUARY 16-18, 1988 (88002). ROUTINE INSPECTION OF THE PALISADES NUCLEAR POWER PLANT'S EMERGENCY EXERCISE INVOLVING OBSERVATIONS BY THREE NRC REPRESENTATIVES OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE. THE INSPECTION WAS CONDUCTED BY TWO NRC INSPECTORS AND ONE CONSULTANT. NO VIOLATIONS, DEFICIENCIES, OR DEVIATIONS WERE IDENTIFIED AS A RESULT OF THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

REFUELING OUTAGE PLANNED FOR 9/6/88

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATED ENTIRE MONTH. POWER REDUCED FOR REPAIR TO STEAM LEAK, AND TO ADD AND SOAK BORIC ACID IN THE STEAM GENERATORS.

LAST IE SITE INSPECTION DATE: 03/02/88

INSPECTION REPORT NO: 88007

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	012388	031188	FAILURE TO COMPLY WITH LOW TEMPERATURE OVERPRESSURE PROTECTION ADMINISTRATIVE CONTROLS
88-02	031088	031088	RADIOACTIVE WASTE GAS RELEASED WITH LESS THAN REQUIRED 15-DAY HOLDUP
88-03	022188	032288	FAILURE TO PERFORM REQUIRED LIQUID EFFLUENT ANALYSIS
88-04	030388	040488	PERSONNEL ERROR RESULTS IN FAILURE TO COMPLETE REQUIRED CHEMISTRY ANA LYSIS
88-05	030488	040488	INADEQUATE PROCEDURE RESULTS IN VALVE TESTING DURING PROHIBITED CONDI TION

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

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: J. L. HULL (602) 393-2679

4. Licensed Thermal Power (MWt): 3800

5. Nameplate Rating (Gross MWe): 1403

6. Design Electrical Rating (Net MWe): 1270

7. Maximum Dependable Capacity (Gross MWe): 1303

8. Maximum Dependable Capacity (Net MWe): 1221

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	19,056.0
13. Hours Reactor Critical	580.2	580.2	10,557.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	518.7	518.7	10,235.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,667,501	1,667,501	36,700,338
18. Gross Elec Ener (MWH)	582,000	582,000	12,725,300
19. Net Elec Ener (MWH)	530,379	530,379	11,858,493
20. Unit Service Factor	69.7	23.8	53.7
21. Unit Avail Factor	69.7	23.8	53.7
22. Unit Cap Factor (MDC Net)	58.4	19.9	51.0
23. Unit Cap Factor (DER Net)	56.1	19.1	49.0
24. Unit Forced Outage Rate	30.0	72.7	35.6
25. Forced Outage Hours	222.7	1,380.8	5,652.5

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

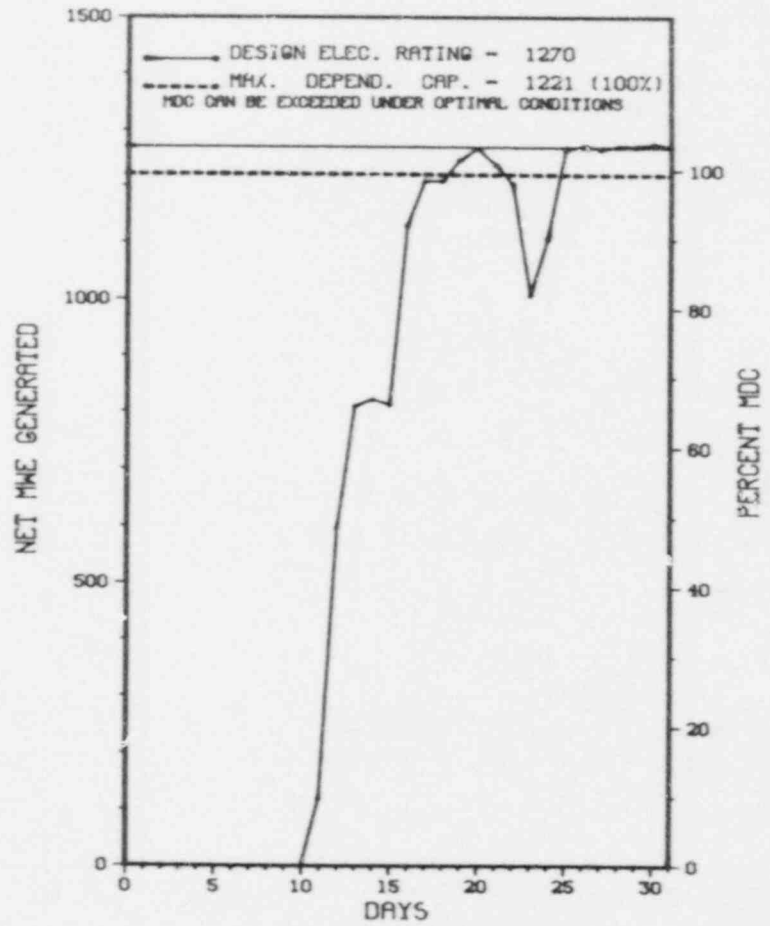
NONE

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

****
* PALO VERDE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* PALO VERDE 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
10	01/12/88	F	222.7	A	4				UNIT SHUTDOWN TO REPAIR AN INOPERABLE CONTROL ELEMENT ASSEMBLY.
1	03/10/88	S	2.6	B	1				MANUALLY TRIPPED MAIN TURBINE FOR OVERSPEED TESTING.
2	03/22/88	F	0.0	B	5				REACTOR POWER REDUCED TO 80% DUE TO SG CHEMISTRY BEING OUT OF SPECIFICATION AS A RESULT OF THE POLISHERS BEING OUT OF SERVICE FOR REGENERATION.

****
* SUMMARY *
****

PALO VERDE 1 ENTERED MONTH SHUTDOWN FOR REPAIRS. RETURNED TO POWER ON 3/11. SUBSEQUENTLY INCURRED 1 OUTAGE AND 1 POWER REDUCTION.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PALO VERDE 1 *
****

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ARIZONA

COUNTY.....MARICOPA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...36 MI W OF
PHOENIX, AZ

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 25, 1985

DATE ELEC ENER 1ST GENER...JUNE 10, 1985

DATE COMMERCIAL OPERATE....JANUARY 28, 1986

CONDENSER COOLING METHOD...TREATED SEWAGE

CONDENSER COOLING WATER....SEWAGE TREATMENT

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....ARIZONA PUBLIC SERVICE

CORPORATE ADDRESS.....P.O. BOX 21666
PHOENIX, ARIZONA 85036

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....T. POLICH

LICENSING PROJ MANAGER.....E. LICITRA
DOCKET NUMBER.....50-528

LICENSE & DATE ISSUANCE....NPF-41, JUNE 1, 1985

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DOCUMENTS LIBRARIAN
PHOENIX PUBLIC LIBRARY
12 EAST MCDOWELL ROAD
PHOENIZ, ARIZONA 85004

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON NOVEMBER 2-6, 1987 (REPORT NO. 50-528/87-37) TEAM INSPECTION CONDUCTED BY HEADQUARTERS' PERSONNEL. REPORT SENT MARCH 17, 1988.

+ INSPECTION ON NOVEMBER 9-13, 1987 (REPORT NO. 50-528/87-45) AREAS INSPECTED: AN ANNOUNCED TEAM INSPECTION WAS PERFORMED AT PALO VERDE NUCLEAR GENERATING STATION TO ASSESS THE IMPLEMENTATION OF THE ARIZONA PUBLIC SERVICE QUALITY ASSURANCE PROGRAM PARTICULARLY IN THE AREAS OF 10 CFR 21 REPORTABILITY REQUIREMENTS, CONTROL OF PURCHASED MATERIALS AND SERVICES, NONCONFORMANCES, AND CORRECTIVE ACTIONS. THE MAJOR INSPECTION EFFORT WAS FOCUSED ON THE PALO VERDE UNIT 3-3B EMERGENCY DIESEL GENERATOR, WHICH SUFFERED A CATASTROPHIC FAILURE ON DECEMBER 23, 1986.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JANUARY 4 - FEBRUARY 12, 1988 (REPORT NO. 50-528/88-01) AREAS INSPECTED: THIS SPECIAL TEAM SAFETY SYSTEM FUNCTIONAL INSPECTION INVOLVED THE AREAS OF ENGINEERING, MAINTENANCE, SURVEILLANCE TESTING, OPERATIONS, AND QUALITY ASSURANCE AND ADMINISTRATION. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: OF THE AREAS INSPECTED, THREE VIOLATIONS OF NRC REQUIREMENTS WERE IDENTIFIED: FAILURE TO COMPLY WITH CERTAIN AS-BUILT REQUIREMENTS OF PRESCRIBED DOCUMENTED INSTRUCTIONS, PROCEDURES, OR DRAWINGS; FAILURE TO COMPLY WITH PRESCRIBED PROCEDURES IN

INSPECTION SUMMARY

MAKING TEMPORARY MODIFICTIONS TO INSTALL A TANK TO SUPPLY HYPOCHLORITE FOR THE EMERGENCY SPRAY POND; AND FAILURE TO COMPLY WITH ASME REQUIREMENTS IN DETERMINIG THE SIZE OF PRESSURE RELIEF VALVES FOR THE SURGE TANKS IN THE ESSENTIAL CHILLED WATER SYSTEM.

+ INSPECTION ON JANUARY 17 - MARCH 5, 1988 (REPORT NO. 50-528/88-02) REPORT BEING PREPARED; TO BE REPOORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-528/88-06) AREAS INSPECTED: AN UNANNOUNCED INSPECTION TO CLOSE OUT PREVIOUSLY IDENTIFIED OPEN ITEMS AND TO EVALUATE THE ADEQUACY OF THE IMPLEMENTATION OF THE ROUTINE FIRE PROTECTION PROGRAM. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 23 - MARCH 3, 1988 (REPORT NO. 50-528/88-08) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF QUALITY ASSURANCE FOR RADIOCHEMICAL ANALYSES, CHEMISTRY CONTROL, CHEMICAL ANALYSIS, ONSITE FOLLOWUP OF INSPECTOR IDENTIFIED ITEMS AND PLANT TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: BASED ON THE AREAS INSPECTED, A VIOLATION FOR FAILURE TO IMPLEMENT PROCEDURAL DETECTION LIMITS FOR RADIOACTIVITY ANALYSIS OF A WASTE GAS DECAY TANK SAMPLE WAS IDENTIFIED.

+ INSPECTION ON FEBRUARY 22 - MARCH 3, 1988 (REPORT NO. 50-528/88-09) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF FOLLOWUP ITEMS, TRANSPORTATION, MAINTAINING OCCUPATIONAL EXPOSURES ALARA, RADIATION MONITORING SYSTEM, EXTERNAL OCCUPATIONAL EXPOSURE CONTROL, REVIEW OF PERIODIC REPORTS, FACILITY TOURS AND EXIT INTERVIEW. DURING THIS INSPECTIOON, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEM OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 6 - APRIL 2, 1988 (REPORT NO. 528-528/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ MEETING ON FEBRUARY 29, 1988 (REPORT NO. 50-528/88-11) A MANAGEMENT MEETING WAS HELD ON THE ABOVE DATE TO DISCUSS ISSUES OF CURRENT INTEREST RELATING TO THE PALO VERDE UNIT 1 NUCLEAR GENERATING STATION.

+ 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) INSPECTION TO BE CONDUCTED IN MAY 1988.

+ INSPECTION ON APRIL 3 - MAY 7, 1988 (REPORT NO. 50-528/88-14) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON APRIL 4-8, 1988 (REPORT NO. 50-528/88-15) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH

+ EXAMINATIONS ON JANUARY 11-29, 1988 (REPORT NO. 50-528/OL-88-01) WRITTEN AND ORAL EXAMINATIONS WERE ADMINISTERED TO 10 SENIOR REACTOR OPERATOR AND 11 REACTOR OPERATOR CANDIDATES (ONE RO CANDIDATE MISSED THE WRITTEN EXAMINATION DUE TO EXTENUATING CIRCUMSTANCES). SEVEN SRO AND NINE RO CANDIDATES PASSED BOTH EXAMINATIONS. ONE RO CANDIDATE FAILED THE WRITTEN EXAMINATION AND THE OPERATING EXAMINATION. THREE SRO CANDIDATES FAILED THE WRITTEN EXAMINATION AND THE OPERATING EXAMINATION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

A CONTROL ROD BECAME STUCK DURING ROD TESTING WHILE RECOVERING FROM THE PRESENT REFUELING OUTAGE. THE CAUSE WAS DETERMINED TO BE A BALL BEARING WHICH WAS INADVERTENTLY INTRODUCED INTO THE UPPER GUIDE STRUCTURE OF THE REACTOR VESSEL INTERNALS.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

AN ENFORCEMENT CONFERENCE AND MANAGEMENT MEETING WAS HELD ON FEBRUARY 29, 1988.

PLANT STATUS:

THE PLANT WENT BACK ON LINE FOLLOWING A REFUELING OUTAGE ON MARCH 10, 1988.

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
NONE			

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1. Docket: 50-529 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: J. L. HULL (602) 393-2679

4. Licensed Thermal Power (MWt): 3800

5. Nameplate Rating (Gross MWe): 1403

6. Design Electrical Rating (Net MWe): 1270

7. Maximum Dependable Capacity (Gross MWe): 1303

8. Maximum Dependable Capacity (Net MWe): 1221

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	13,440.0
13. Hours Reactor Critical	.0	1,202.0	10,477.1
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	1,202.0	10,328.2
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	4,508,600	37,715,767
18. Gross Elec Ener (MWH)	0	1,583,100	13,249,370
19. Net Elec Ener (MWH)	0	1,487,775	12,424,657
20. Unit Service Factor	.0	55.0	76.8
21. Unit Avail Factor	.0	55.0	76.8
22. Unit Cap Factor (MDC Net)	.0	55.8	75.7
23. Unit Cap Factor (DER Net)	.0	53.6	72.8
24. Unit Forced Outage Rate	.0	.0	5.8
25. Forced Outage Hours	.0	.0	637.1

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

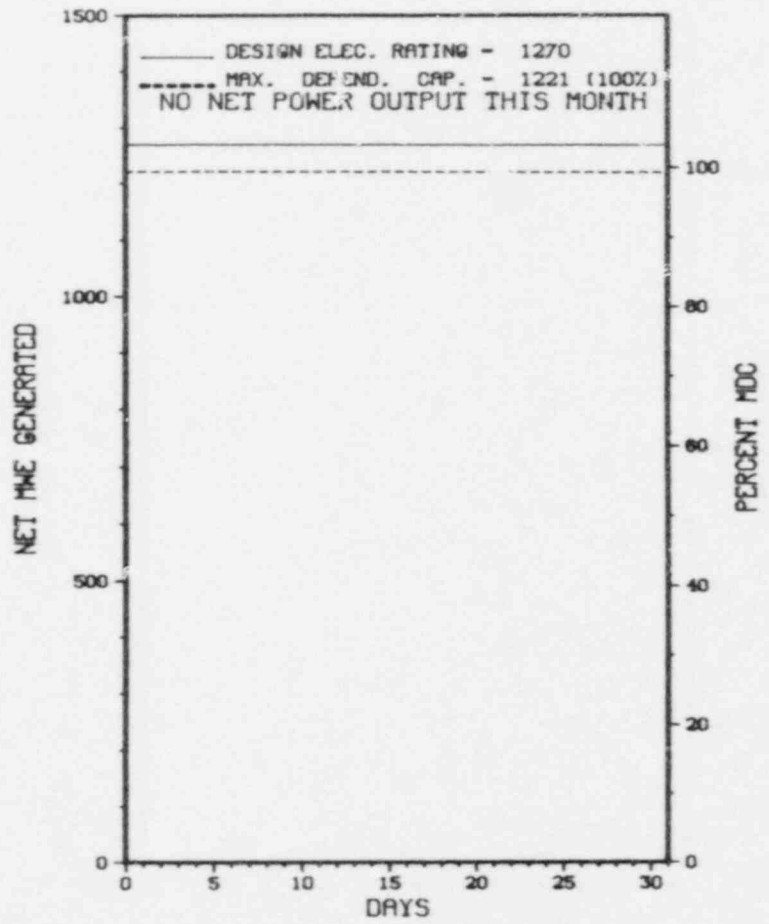
NONE

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

****
* PALO VERDE 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 2



MARCH 1988

Report Period MAR 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	744.0	C	4				UNIT SHUTDOWN DUE TO REFUELING OUTAGE.

****
* SUMMARY *
****

PALO VERDE 2 REMAINED SHUTDOWN IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PALO VERDE 2 *
****

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....ARIZONA

COUNTY.....MARICOPA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...36 MI W OF
PHOENIX, AZ

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...APRIL 18, 1986

DATE ELEC ENER 1ST GENER...MAY 20, 1986

DATE COMMERCIAL OPERATE....SEPTEMBER 19, 1986

CONDENSER COOLING METHOD...COOLING TOWERS

CONDENSER COOLING WATER....SEWAGE TREATMENT

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....ARIZONA PUBLIC SERVICE

CORPORATE ADDRESS.....P.O. BOX 21666
PHOENIX, ARIZONA 85036

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....T. POLICH

LICENSING PROJ MANAGER.....E. LICITRA
DOCKET NUMBER.....50-529

LICENSE & DATE ISSUANCE....NPF-51, APRIL 24, 1986

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INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON NOVEMBER 2-6, 1987 (REPORT NO. 50-529/87-36) TEAM INSPECTION CONDUCTED BY HEADQUARTERS' PERSONNEL. REPORT SENT MARCH 17, 1988.

+ INSPECTION ON NOVEMBER 9-13, 1987 (REPORT NO. 50-529/87-44) AREAS INSPECTED: AN ANNOUNCED TEAM INSPECTION WAS PERFORMED AT PALO VERDE NUCLEAR GENERATING STATION TO ASSESS THE IMPLEMENTATION OF THE ARIZONA PUBLIC SERVICE QUALITY ASSURANCE PROGRAM PARTICULARLY IN THE AREAS OF 10 CFR 21 REPORTABILITY REQUIREMENTS, CONTROL OF PURCHASED MATERIALS AND SERVICES, NONCONFORMANCES, AND CORRECTIVE ACTIONS. THE MAJOR INSPECTION EFFORT WAS FOCUSED ON THE PALO VERDE UNIT 3-3B EMERGENCY DIESEL GENERATOR, WHICH SUFFERED A CATASTROPHIC FAILURE ON DECEMBER 23, 1986.

RESULTS: NO ITEMS OF NONCOMLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JANUARY 4 - FEBRUARY 12, 1988 (REPORT NO. 50-529/88-01) REPORT CANCELLED.

+ INSPECTION ON JANUARY 5 - MARCH 5, 1988 (REPORT NO. 50-529/88-02)) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-529/88-06) AREAS INSPECTED: AN UNANNOUNCED INSPECTION TO CLOSE OUT PREVIOUSLY IDENTIFIED OPEN ITEMS AND TO EVALUATE THE ADEQUACY OF THE IMPLEMENTATION OF THE ROUTINE FIRE PROTECTION PROGRAM. DURING THIS

INSPECTION SUMMARY

INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 26 - MARCH 3, 1988 (REPORT NO. 50-529/88-08) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF QUALITY ASSURANCE FOR RADIOCHEMICAL ANALYSES, CHEMISTRY CONTROL, CHEMICAL ANALYSIS, ONSITE FOLLOWUP OF INSPECTOR IDENTIFIED ITEMS AND PLANT TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED

+ INSPECTION ON FEBRUARY 25 - MARCH 3, 1988 (REPORT NO. 50-529/88-09) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF FOLLOWUP ITEMS, TRANSPORTATION, MAINTAINING OCCUPATIONAL EXPOSURES ALARA, RADIATION MONITORING SYSTEMS, EXTERNAL OCCUPATIONAL EXPOSURE CONTROL, REVIEW OF PERIODIC REPORTS, FACILITY TOURS AND EXIT INTERVIEW. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED

+ INSPECTION ON MARCH 6 - APRIL 2, 1988 (REPORT NO. 50-529/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ MANAGEMENT MEETING ON FEBRUARY 19, 1988 (REPORT NO. 50-529/88-11) MANAGEMENT MEETING WAS HELD ON THE ABOVE DATE TO DISCUSS ISSUES OF CURRENT INTEREST RELATING TO THE PALO VERDE UNIT 2 NUCLEAR GENERATING STATION.

+ INSPECTION ON MARCH 21-25, 1988 (REPORT NO. 50-529/88-12) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ 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) INSPECTION TO BE CONDUCTED IN MAY 1988.

+ INSPECTION ON APRIL 3 - MAY 7, 1988 (REPORT NO. 50-529/88-15) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON APRIL 4-8, 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:

OTHER ITEMS

AN ORDER WAS ISSUED NOVEMBER 19, 1987, MODIFYING THE UNIT 2 LICENSE. THIS ORDER CONFIRMED COMMITMENTS BY THE LICENSEE TO PROVIDE VIBRATION MONITORING FOR REACTOR COOLANT PUMP SHAFTS.

AN ENFORCEMENT CONFERENCE AND MANAGEMENT MEETING AS HELD ON FEBRUARY 29, 1988.

PLANT STATUS:

THE LICENSEE DECLARED THE UNIT IN COMMERCIAL OPERATION ON SEPTEMBER 21, 1986.

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			

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1. Docket: 50-530 O P E R A T I N G S T A T U S
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: J.M. COLVILLE 602-393-2679
4. Licensed Thermal Power (MWt): 3800
5. Nameplate Rating (Gross MWe): 1403
6. Design Electrical Rating (Net MWe): 1270
7. Maximum Dependable Capacity (Gross MWe): 1303
8. Maximum Dependable Capacity (Net MWe): 1221
9. If Changes Occur Above Since Last Report, Give Reasons:

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,016.0	2,016.0
13. Hours Reactor Critical	744.0	2,016.0	2,016.0
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,016.0	2,016.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,811,696	7,587,912	7,587,912
18. Gross Elec Ener (MWH)	995,400	2,682,000	2,682,000
19. Net Elec Ener (MWH)	941,026	2,537,784	2,537,784
20. Unit Service Factor	100.0	100.0	100.0
21. Unit Avail Factor	100.0	100.0	100.0
22. Unit Cap Factor (MDC Net)	103.6	103.1	103.1
23. Unit Cap Factor (DER Net)	99.6	99.1	99.1
24. Unit Forced Outage Rate	.0	.0	.0
25. Forced Outage Hours	.0	.0	.0

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

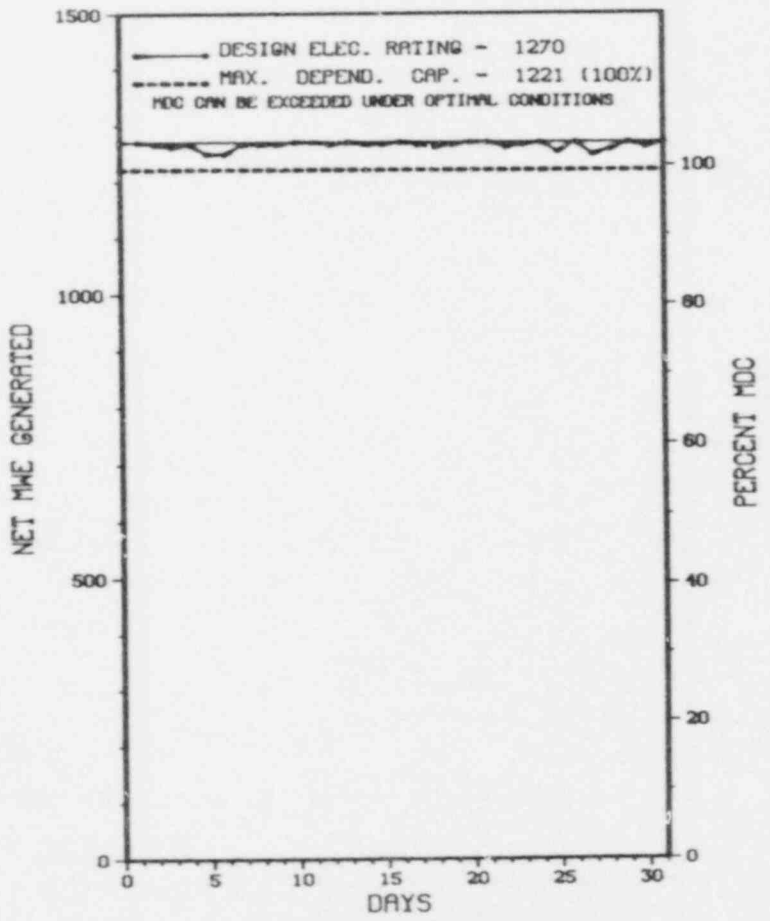
NONE

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

****
* PALO VERDE 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PALO VERDE 3



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* PALO VERDE 3 *
****

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

****
* SUMMARY *
****

PALO VERDE 3 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PALO VERDE 3 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....ARIZONA

COUNTY.....MARICOPA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...36 MI W OF
PHOENIX, AZ

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...OCTOBER 25, 1987

DATE ELEC ENER 1ST GENER...NOVEMBER 28, 1987

DATE COMMERCIAL OPERATE....JANUARY 8, 1988

CONDENSER COOLING METHOD...COOLING TOWERS

CONDENSER COOLING WATER....SEWAGE TREATMENT

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....ARIZONA PUBLIC SERVICE

CORPORATE ADDRESS.....P.O. BOX 21666
PHOENIX, ARIZONA 85036

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....T. POLICH

LICENSING PROJ MANAGER.....M. DAVIS
DOCKET NUMBER.....50-530

LICENSE & DATE ISSUANCE....NPF-74, NOVEMBER 25, 1987

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PHOENIZ, ARIZONA 85004

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON JANUARY 4 - FEBRUARY 12, 1988 (REPORT NO. 50-530/87-43) AREAS INSPECTED: AN ANNOUNCED TEAM INSPECTION WAS PERFORMED AT PALO VERDE NUCLEAR GENERATING STATION TO ASSESS THE IMPLEMENTATION OF THE ARIZONA PUBLIC SERVICE QUALITY ASSURANCE PROGRAM PARTICULARLY IN THE AREAS OF 10 CFR 21 REPORTABILITY REQUIREMENTS, CONTROL OF PURCHASED MATERIALS AND SERVICES, NONCONFORMANCES, AND CORRECTIVE ACTIONS. THE MAJOR INSPECTION EFFORT WAS FOCUSED ON THE PALO VERDE UNIT 3-3B EMERGENCY DIESEL GENERATOR, WHICH SUFFERED A CATASTROPHIC FAILURE ON DECEMBER 23, 1986.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE UTILIZED.

+ INSPECTION ON JANUARY 4 - FEBRUARY 12, 1988 (REPORT NO. 50-530/88-01) REPORT CANCELLED.

+ INSPECTION ON JANUARY 17 - MARCH 5, 1988 (REPOORT NO. 50-530/88-02) REPORT BEING PREPARED; TO REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 1-5, 1988 (REPORT NO. 50-530/88-06) AREAS INSPECTED: AN UNANNOUNCED INSPECTION TO CLOSE OUT PREVIOUSLY IDENTIFIED OPEN ITEMS AND TO EVALUATE THE ADEQUACY OF THE IMPLEMENTATION OF THE ROUTINE FIRE PROTECTION PROGRAM. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE UTILIZED.

INSPECTION SUMMARY

+ INSPECTION ON FEBRUARY 23 - MARCH 3, 1988 (REPORT NO. 50-530/88-08) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF QUALITY ASSURANCE FOR RADIOCHEMICAL ANALYSES, CHEMISTRY CONTROL, CHEMICAL ANALYSIS, ONSITE FOLLOWUP OF INSPECTOR IDENTIFIED ITEMS AND PLANT TOURS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON FEBRUARY 25 - MARCH 3, 1988 (REPORT NO. 50-530/88-09) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF FOLLOWUP ITEMS, TRANSPORTATION, MAINTAINING OCCUPATIONAL EXPOSURES ALARA, RADIATION MONITORING SYSTEM, EXTERNAL OCCUPATIONAL EXPOSURE CONTROL, REVIEW OF PERIODIC REPORTS, FACILITY TOURS AND EXIT INTERVIEW. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 6 - APRIL 2, 1988 (REPORT NO. 50-530/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ MANAGEMENT MEETING ON FEBRUARY 2, 1988 (REPORT NO. 50-530/88-11) A MANAGEMENT MEETING WAS HELD ON THE ABOVE DATE TO DISCUSS ISSUES OF CURRENT INTEREST RELATING TO THE PALO VERDE UNIT 3 NUCLEAR GENERATING STATION.

+ INSPECTION ON APRIL 4-8, 1988 (REPORT NO. 50-530/88-12) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MAY 6-27, 1988 (REPORT NO. 50-530/88-13) INSPECTION TO BE CONDUCTED IN MAY 1988.

+ INSPECTION ON APRIL 3 - MAY 7, 1988 (REPORT NO. 50-530/88-14) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON APRIL 4-8, 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:

****
* PALO VERDE 3 *
****

OTHER ITEMS

NONE

LAST IE SITE INSPECTION DATE: 05/06-27/88+

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			

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1. Docket: 50-277 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: L. L. MIDDLETON (215) 841-6374

4. Licensed Thermal Power (MWt): 3293

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

6. Design Electrical Rating (Net MWe): 1065

7. Maximum Dependable Capacity (Gross MWe): 1098

8. Maximum Dependable Capacity (Net MWe): 1051

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

NONE

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

11. Reasons for Restrictions, If Any:

NRC ORDER OF 3/31/87

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	120,456.0
13. Hours Reactor Critical	.0	.0	74,196.2
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	.0	71,866.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	212,810,745
18. Gross Elec Ener (MWH)	0	0	70,019,230
19. Net Elec Ener (MWH)	-4,064	-13,127	67,027,989
20. Unit Service Factor	.0	.0	59.7
21. Unit Avail Factor	.0	.0	59.7
22. Unit Cap Factor (MDC Net)	.0	.0	52.9
23. Unit Cap Factor (DER Net)	.0	.0	52.2
24. Unit Forced Outage Rate	.0	.0	14.6
25. Forced Outage Hours	.0	.0	12,304.0

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

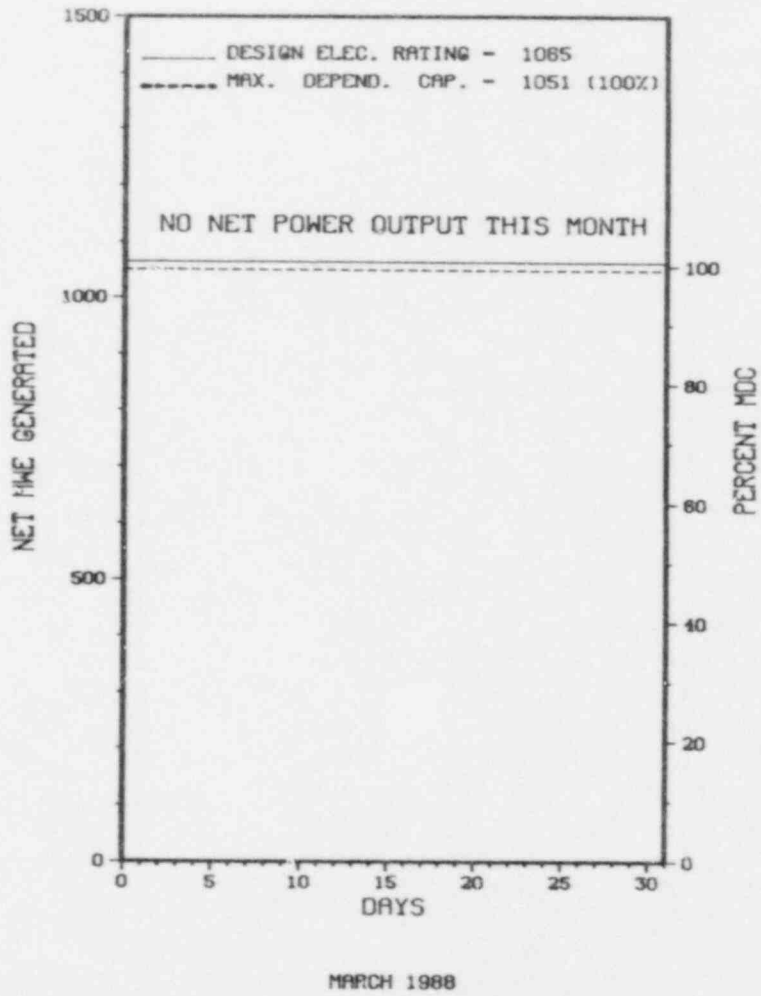
NONE

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

****
* PEACH BOTTOM 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PEACH BOTTOM 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

PEACH BOTTOM 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/31/87	S	744.0	C	1		RC	FUELXX	NRC REQUIRED SHUTDOWN.

SUMMARY

PEACH BOTTOM 2 REMAINED SHUTDOWN IN ACCORDANCE WITH NRC ORDER, HOWEVER, CONTINUED RESTART ACTIVITIES.

Type	Reason		Method	System & Component
F-Forced	A-Equip Failure	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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PEACH BOTTOM 2 *
****

FACILITY DATA

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):

OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-278 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: L. L. MIDDLETON (215) 841-6374

4. Licensed Thermal Power (MWt): 3293

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

6. Design Electrical Rating (Net MWe): 1065

7. Maximum Dependable Capacity (Gross MWe): 1098

8. Maximum Dependable Capacity (Net MWe): 1035

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

NONE

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

11. Reasons for Restrictions, If Any:

NRC ORDER OF 3/31/87

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	116,352.0
13. Hours Reactor Critical	.0	.0	76,366.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	.0	74,059.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	215,278,901
18. Gross Elec Ener (MWH)	0	0	70,611,432
19. Net Elec Ener (MWH)	-4,084	-13,127	67,689,028
20. Unit Service Factor	.0	.0	63.7
21. Unit Avail Factor	.0	.0	63.7
22. Unit Cap Factor (MDC Net)	.0	.0	56.2
23. Unit Cap Factor (DER Net)	.0	.0	54.6
24. Unit Forced Outage Rate	.0	.0	13.3
25. Forced Outage Hours	.0	.0	11,372.7

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

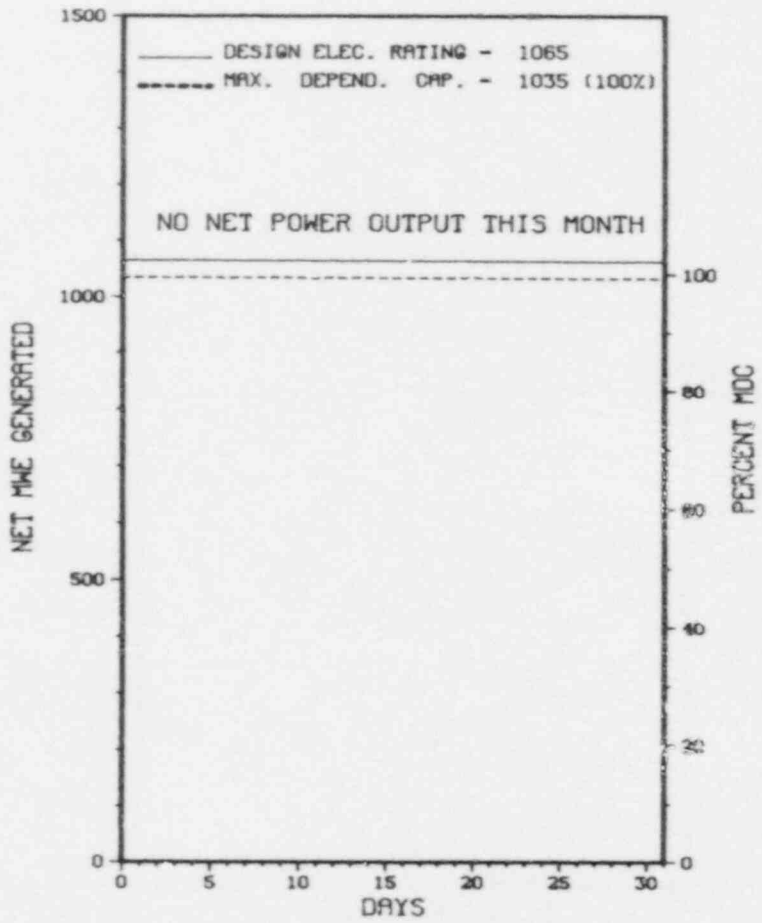
NONE

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

****
* PEACH BOTTOM 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PEACH BOTTOM 3



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

PEACH BOTTOM 3

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/31/87	S	744.0	C	1		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	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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PEACH BOTTOM 3 *
****

FACILITY DATA

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):

OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-440 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: G. A. DUNN (216) 259-3737

4. Licensed Thermal Power (MWt): 3579

5. Nameplate Rating (Gross MWe): 1250

6. Design Electrical Rating (Net MWe): 1205

7. Maximum Dependable Capacity (Gross MWe): 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	744.0	2,184.0	3,228.0
13. Hours Reactor Critical	744.0	1,525.5	2,336.8
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,441.3	2,214.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,510,544	4,759,711	7,321,230
18. Gross Elec Ener (MWH)	872,166	1,642,909	2,521,371
19. Net Elec Ener (MWH)	829,758	1,548,183	2,376,667
20. Unit Service Factor	100.0	66.0	68.6
21. Unit Avail Factor	100.0	66.0	68.6
22. Unit Cap Factor (MDC Net)	92.6	58.8	61.1
23. Unit Cap Factor (DER Net)	92.6	58.8	61.1
24. Unit Forced Outage Rate	.0	7.5	14.9
25. Forced Outage Hours	.0	116.8	387.4

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

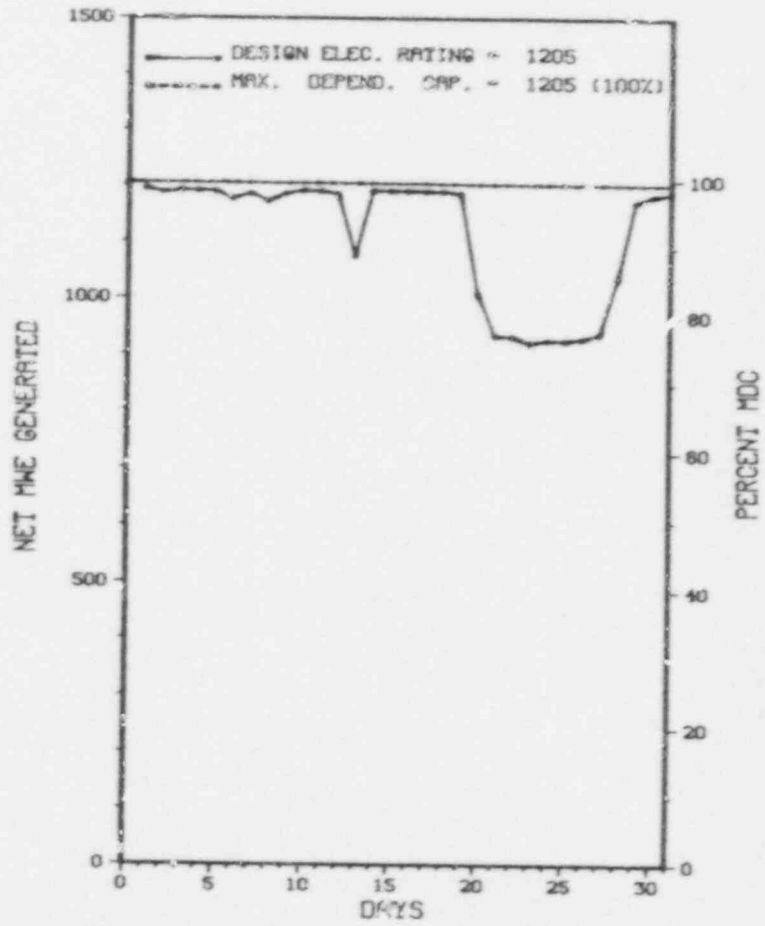
NONE

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

****
* PERRY 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PERRY 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

PERRY 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/20/88	F	0.0	A	5		SB	ISV	DURING MONTHLY TESTING ON MARCH 20, ONE INBOARD MAIN STEAM ISOLATION VALVE EXHIBITED A DELAY IN OPENING AFTER SUCCESSFUL CLOSURE. PENDING THE COMPLETION OF FURTHER TESTING TO ASSURE SAFETY FUNCTIONS WERE NOT AFFECTED, ONE MAIN STEAM LINE WAS ISOLATED AND POWER WAS CONSERVATIVELY REDUCED TO 80%. UPON SUCCESSFUL COMPLETION OF THE TESTING, NORMAL PLANT OPERATION WAS RESUMED ON MARCH 28.

SUMMARY

PERRY 1 INCURRED 1 POWER REDUCTION IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PERRY 1 *
****

FACILITY DATA

Report Period MAR 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

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

OTHER ITEMS

NONE

PLANT STATUS:

PLANT IS IN NORMAL OPERATION

LAST IE SITE INSPECTION DATE: 12/04/87

INSPECTION REPORT NO: 87027

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
88-09	022788	032588	MISADJUSTMENT OF AVERAGE POWER RANGE MONITOR READINGS DUE TO AN ERROR IN HEAT BALANCE CALCULATION RESULTS IN TECHNICAL SPECIFICATION VIOLATION
88-10	031088	040888	INADEQUATE INSTRUCTIONS RESULT IN LOSS OF AUXILIARY BUILDING VENTILATION AND SUBSEQUENT REACTOR WATER CLEANUP SYSTEM CONTAINMENT ISOLATIONS

1. Docket: 50-293 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: P. HAMILTON (617) 746-7900

4. Licensed Thermal Power (MWt): 1998

5. Nameplate Rating (Gross MWe): 780 X 0.87 = 678

6. Design Electrical Rating (Net MWe): 655

7. Maximum Dependable Capacity (Gross MWe): 690

8. Maximum Dependable Capacity (Net MWe): 670

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	134,208.0
13. Hours Reactor Critical	.0	.0	79,778.7
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	.0	77,216.9
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	135,480,048
18. Gross Elec Ener (MWH)	0	0	45,444,604
19. Net Elec Ener (MWH)	0	0	43,675,429
20. Unit Service Factor	.0	.0	57.5
21. Unit Avail Factor	.0	.0	57.5
22. Unit Cap Factor (MDC Net)	.0	.0	48.6
23. Unit Cap Factor (DER Net)	.0	.0	49.7
24. Unit Forced Outage Rate	.0	.0	12.4
25. Forced Outage Hours	.0	.0	10,922.7

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

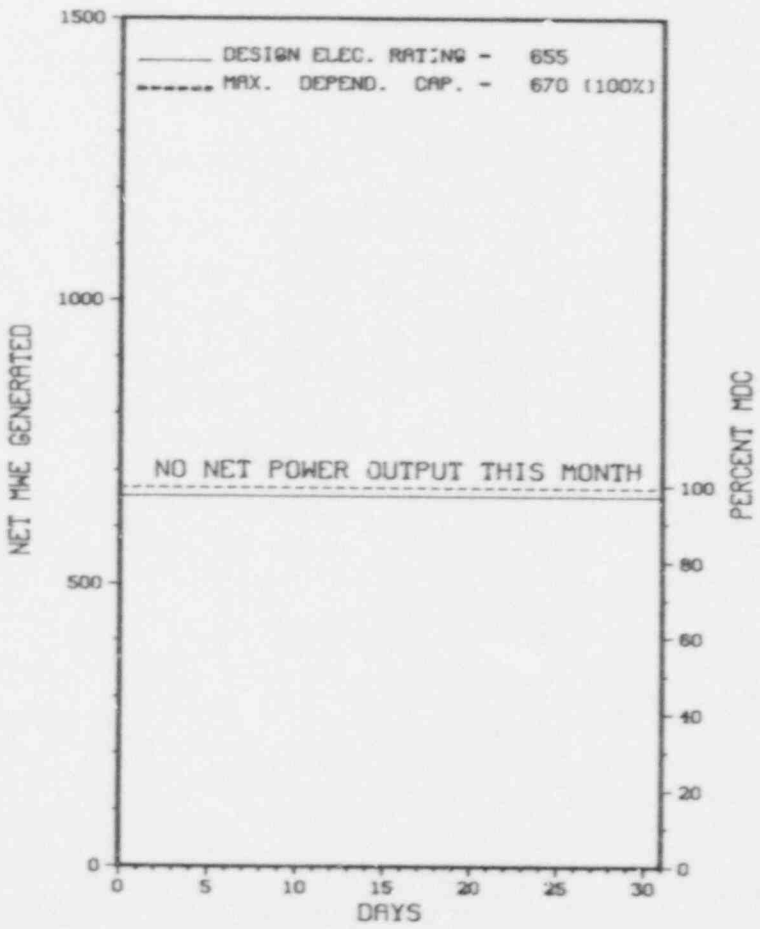
NONE

27. If Currently Shutdown Estimated Startup Date: 08/01/88

****
* PILGRIM 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PILGRIM 1



MARCH 1988

Report Period MAR 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	744.0	C	4				SHUTDOWN FOR RFO 7.

****
* SUMMARY *
****

PILGRIM 1 REMAINED SHUTDOWN IN MARCH FOR SCHEDULED REFUELINC 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PILGRIM 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....MASSACHUSETTS

COUNTY.....PLYMOUTH

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...6 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 ENIRONMENTTHAT THE MOSE 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 SPLICE ASSEMBLIES Q102A, Q102B, Q203A AND Q103B. IT HAD BEEN ESTABLISHED ONLY THAT THE ABOVE DEVICES WERE QUALIFIED FOR A LARGE BREAK LOSS OF COOLANT ACCIDDENT UP TO 290 DEGREES F. THIS TEMPERATURE WAS 30DEGREES F LOWER THAN THE TEMPERATURE PROFILE FOR A SMALL BREAK LOCA TO WHICH DRYHLL 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

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: 50-266 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: C. W. KRAUSE (414) 221-2001

4. Licensed Thermal Power (MWt): 1518

5. Nameplate Rating (Gross MWe): 582 X 0.9 = 524

6. Design Electrical Rating (Net MWe): 497

7. Maximum Dependable Capacity (Gross MWe): 509

8. Maximum Dependable Capacity (Net MWe): 485

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	152,544.0
13. Hours Reactor Critical	744.0	2,184.0	124,951.8
14. Rx Reserve Shtdwn Hrs	.0	.0	652.7
15. Hrs Generator On-Line	744.0	2,184.0	122,228.7
16. Unit Reserve Shtdwn Hrs	.0	.0	837.3
17. Gross Therm Ener (MWH)	1,128,055	3,310,269	168,937,323
18. Gross Elec Ener (MWH)	386,720	1,132,750	56,956,100
19. Net Elec Ener (MWH)	370,552	1,086,565	54,254,993
20. Unit Service Factor	100.0	100.0	80.1
21. Unit Avail Factor	100.0	100.0	80.7
22. Unit Cap Factor (MDC Net)	102.7	102.6	72.9*
23. Unit Cap Factor (DER Net)	100.2	100.1	71.5
24. Unit Forced Outage Rate	.0	.0	2.1
25. Forced Outage Hours	.0	.0	2,464.3

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

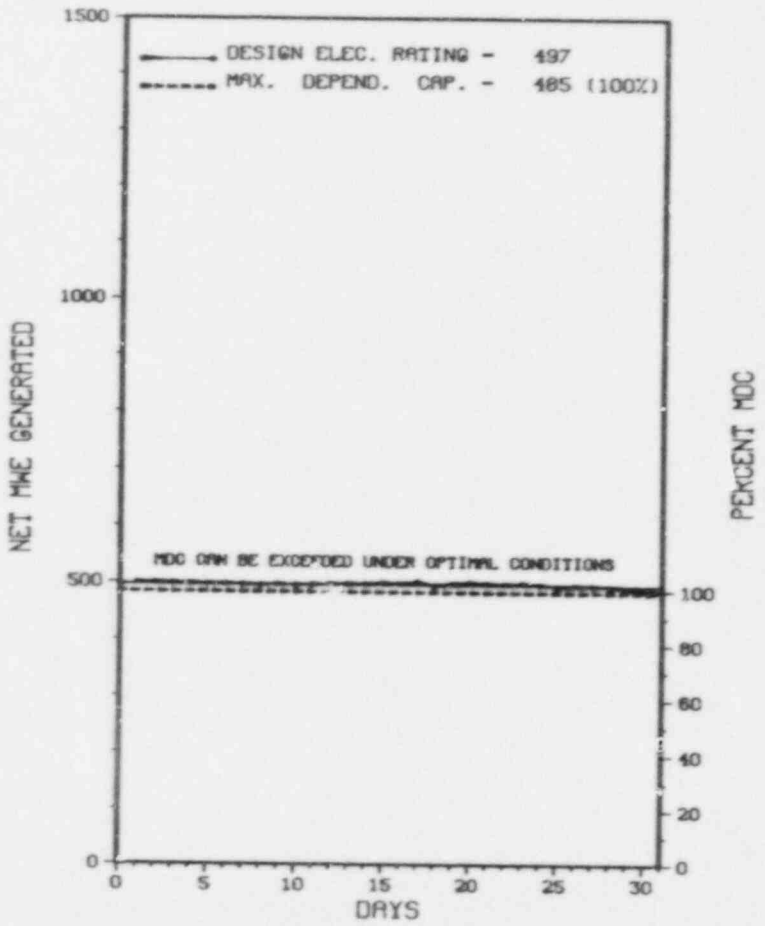
REFUELING/MAINT - APRIL 8, 1988, - 33 DAY DURATION.

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

****
* POINT BEACH 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

POINT BEACH 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

POINT BEACH 1

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

SUMMARY

POINT BEACH 1 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* POINT BEACH 1 *
****

FACILITY DATA

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 FEBRUARY 8-12, 1988 (88005). ROUTINE, ANNOUNCED INSPECTION OF: (1) QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSES; (2) VERIFICATION OF TLD COLLOCATION; (3) ACTION ON AN OPEN ITEM AND A VIOLATION IDENTIFIED DURING PREVIOUS INSPECTIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 03/11/88

INSPECTION REPORT NO: 88007

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-02	021988	031488	DESIGN ERROR ON ELECTRIC STRIKE DOORS USED AS FIRE DOORS
88-03	022888	032888	4160 V UNDERVOLTAGE RELAY NOT IN ACCORDANCE WITH TECH SPECS

1. Docket: 50-301 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: C. W. KRAUSE (414) 221-2001

4. Licensed Thermal Power (MWt): 1518

5. Nameplate Rating (Gross MWe): 582 X 0.9 = 524

6. Design Electrical Rating (Net MWe): 497

7. Maximum Dependable Capacity (Gross MWe): 509

8. Maximum Dependable Capacity (Net MWe): 485

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	137,329.0
13. Hours Reactor Critical	744.0	2,184.0	120,578.4
14. Rx Reserve Shtdwn Hrs	.0	.0	215.0
15. Hrs Generator On-Line	744.0	2,184.0	118,654.1
16. Unit Reserve Shtdwn Hrs	.0	.0	292.4
17. Gross Therm Ener (MWH)	1,127,373	3,306,097	167,876,692
18. Gross Elec Ener (MWH)	386,970	1,133,730	56,913,950
19. Net Elec Ener (MWH)	370,084	1,085,581	54,229,995
20. Unit Service Factor	100.0	100.0	86.4
21. Unit Avail Factor	100.0	100.0	86.6
22. Unit Cap Factor (MDC Net)	102.6	102.5	80.6*
23. Unit Cap Factor (DER Net)	100.1	100.0	79.5
24. Unit Forced Outage Rate	.0	.0	1.2
25. Forced Outage Hours	.0	.0	351.2

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

REFUEL/MAINT - SEPTEMBER 30, 1988- 43 DAY DURATION

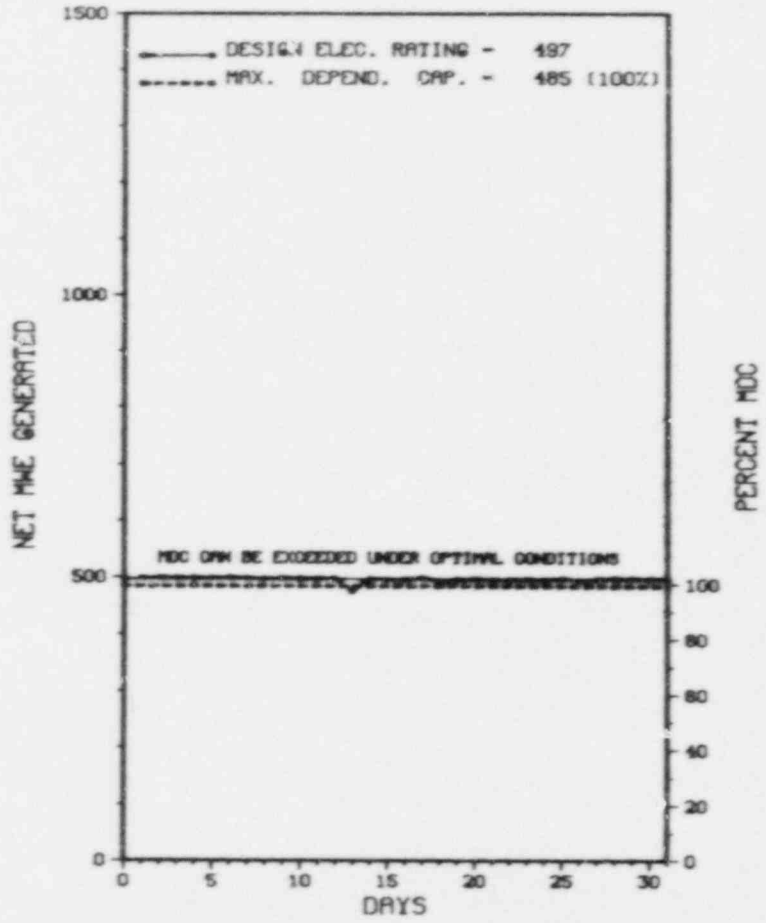
27. If Currently Shutdown Estimated Startup Date: N/A

* Item calculated with a Weighted Average

****
* POINT BEACH 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

POINT BEACH 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* POINT BEACH 2 *
****

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

NONE

****
* SUMMARY *
****

POINT BEACH 2 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* POINT BEACH 2 *
****

FACILITY DATA

Report Period MAR 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 FEBRUARY 8-12, 1988 (88005). ROUTINE, ANNOUNCED INSPECTION OF: (1) QUALITY ASSURANCE AND CONFIRMATORY MEASUREMENTS FOR IN-PLANT RADIOCHEMICAL ANALYSES; (2) VERIFICATION OF TLD COLLOCATION; (3) ACTION ON AN OPEN ITEM AND A VIOLATION IDENTIFIED DURING PREVIOUS INSPECTIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT POWER.

LAST IE SITE INSPECTION DATE: 03/11/88

INSPECTION REPORT NO: 88007

REPORTS FROM LICENSEE

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: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: DALE DUGSTAD (612) 388-1121
4. Licensed Thermal Power (MWt): 1650
5. Nameplate Rating (Gross MWe): 659 X 0.9 = 593
6. Design Electrical Rating (Net MWe): 530
7. Maximum Dependable Capacity (Gross MWe): 534
8. Maximum Dependable Capacity (Net MWe): 503
9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	125,280.0
13. Hours Reactor Critical	662.4	2,102.4	104,645.6
14. Rx Reserve Shtdwn Hrs	.0	.0	5,571.1
15. Hrs Generator On-Line	658.8	2,098.8	103,206.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,027,715	3,384,427	162,438,351
18. Gross Elec Ener (MWH)	34,970	1,141,700	53,215,710
19. Net Elec Ener (MWH)	327,6[illegible]	1,083,599	49,921,264
20. Unit Service Factor	88.5	96.1	82.4
21. Unit Avail Factor	88.5	96.1	82.4
22. Unit Cap Factor (MDC Net)	87.5	98.6	79.2
23. Unit Cap Factor (DER Net)	83.1	93.6	75.2
24. Unit Forced Outage Rate	.0	.0	6.7
25. Forced Outage Hours	.0	.0	3,715.2

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

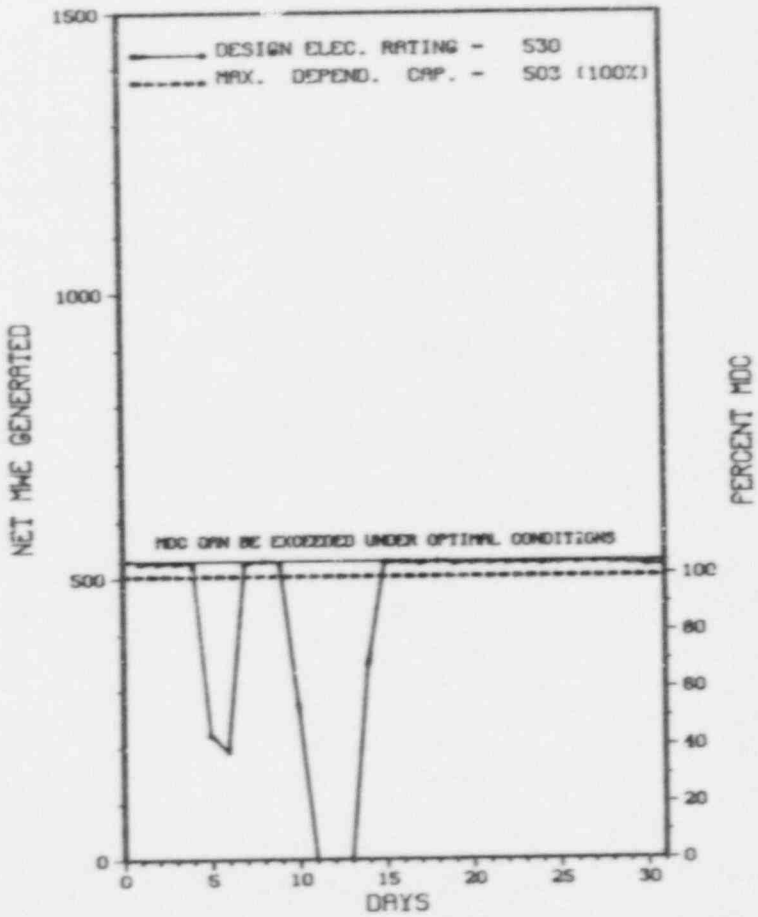
REFUELING - AUGUST, 1988.

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

****
* PRAIRIE ISLAND 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PRAIRIE ISLAND 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* PRAIRIE ISLAND 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8801	03/05/88	S	0.0	B	5				TURBINE VALVES TESTING AND CONDENSER TUBE CLEANING.
8802	03/06/88	S	0.0	B	5				CONDENSER TUBE CLEANING CONTINUATION.
8803	03/10/88	S	85.2	B	1				REPAIR LEAK OF B4 CANOPY SEAL WELD ON THE REACTOR HEAD.

****
* SUMMARY *
****

PRAIRIE ISLAND 1 EXPERIENCED 2 POWER REDUCTIONS AND 1 OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* PRAIRIE ISLAND 1 *
****

FACILITY DATA

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. DIIANNI
DOCKET NUMBER.....50-282

LICENSE & DATE ISSUANCE....DPR-42, APRIL 5, 1974

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MINNEAPOLIS, MINNESOTA 55401

INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

****
* 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.

LAST IE SITE INSPECTION DATE: 02/10/88

INSPECTION REPORT NO: 88003

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01	021888	032188	INADEQUATE NET POSITIVE SUCTION HEAD IN LOW PRESSURE SAFETY INJECTION SYSTEM

1. Docket: 50-306 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: DALE DUGSTAD (612) 388-1121

4. Licensed Thermal Power (MWt): 1650

5. Nameplate Rating (Gross MWe): 659 X 0.9 = 593

6. Design Electrical Rating (Net MWe): 530

7. Maximum Dependable Capacity (Gross MWe): 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	744.0	2,184.0	116,398.0
13. Hours Reactor Critical	744.0	1,285.7	101,520.7
14. Rx Reserve Shtdwn Hrs	.0	.0	1,516.1
15. Hrs Generator On-Line	744.0	1,266.2	100,461.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,217,012	1,968,590	158,114,667
18. Gross Elec Ener (MWH)	403,470	649,650	51,481,980
19. Net Elec Ener (MWH)	384,053	613,727	48,393,150
20. Unit Service Factor	100.0	58.0	86.3
21. Unit Avail Factor	100.0	58.0	86.3
22. Unit Cap Factor (MDC Net)	103.2	56.2	83.2
23. Unit Cap Factor (DER Net)	97.4	53.0	78.4
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):

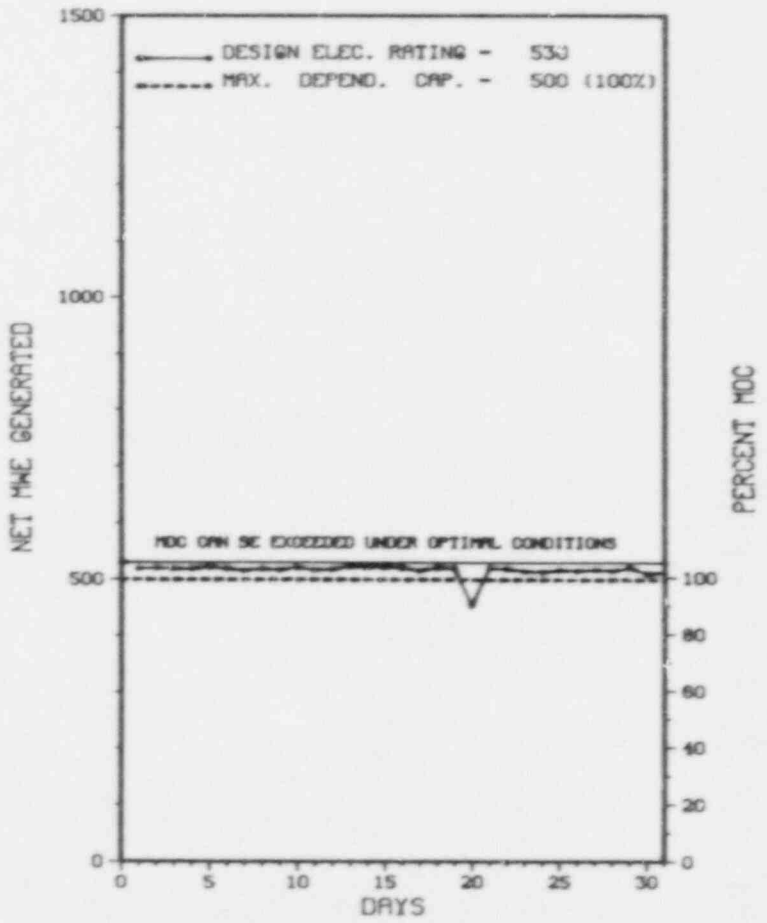
NONE

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

****
* PRAIRIE ISLAND 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

PRAIRIE ISLAND 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* PRAIRIE ISLAND 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8801	03/20/88	S	0.0	B	5				TURBINE VALVE TEST AND 22 FEED WATER PUMP WORK.

****
* SUMMARY *
****

PRAIRIE ISLAND 1 EXPERIENCED 1 POWER REDUCTION IN MARCH FOR VALVE TESTING AND FEEDWATER PUMP WORK.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* PRAIRIE ISLAND 2 *
****

FACILITY DATA

Report Period MAR 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. DIIANNI
DOCKET NUMBER.....50-306

LICENSE & DATE ISSUANCE....DPR-60, OCTOBER 29, 1974

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INSPECTION STATUS

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

OTHER ITEMS

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATED CONTINUALLY THROUGHOUT MONTH.

LAST IE SITE INSPECTION DATE: 01/14/88

INSPECTION REPORT NO: 88003

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

1. Docket: 50-254 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: K.A. SCHMIDT (309) 654-2241 X2147
4. Licensed Thermal Power (MWt): 2511
5. Nameplate Rating (Gross MWe): 920 X 0.9 = 828
6. Design Electrical Rating (Net MWe): 789
7. Maximum Dependable Capacity (Gross MWe): 813
8. Maximum Dependable Capacity (Net MWe): 769
9. If Changes Occur Above Since Last Report, Give Reasons:

NONE

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	139,272.0
13. Hours Reactor Critical	744.0	2,184.0	111,248.4
14. Rx Reserve Shtdwn Hrs	.0	.0	3,421.9
15. Hrs Generator On-Line	744.0	2,177.1	107,634.6
16. Unit Reserve Shtdwn Hrs	.0	.0	909.2
17. Gross Therm Ener (MWH)	1,790,359	5,193,055	228,533,812
18. Gross Elec Ener (MWH)	586,941	1,699,236	74,124,854
19. Net Elec Ener (MWH)	560,923	1,625,739	69,529,809
20. Unit Service Factor	100.0	99.7	77.3
21. Unit Avail Factor	100.0	99.7	77.9
22. Unit Cap Factor (MDC Net)	98.0	96.8	64.9
23. Unit Cap Factor (DER Net)	95.6	94.3	63.3
24. Unit Forced Outage Rate	.0	.3	5.1
25. Forced Outage Hours	.0	6.9	3,443.3

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

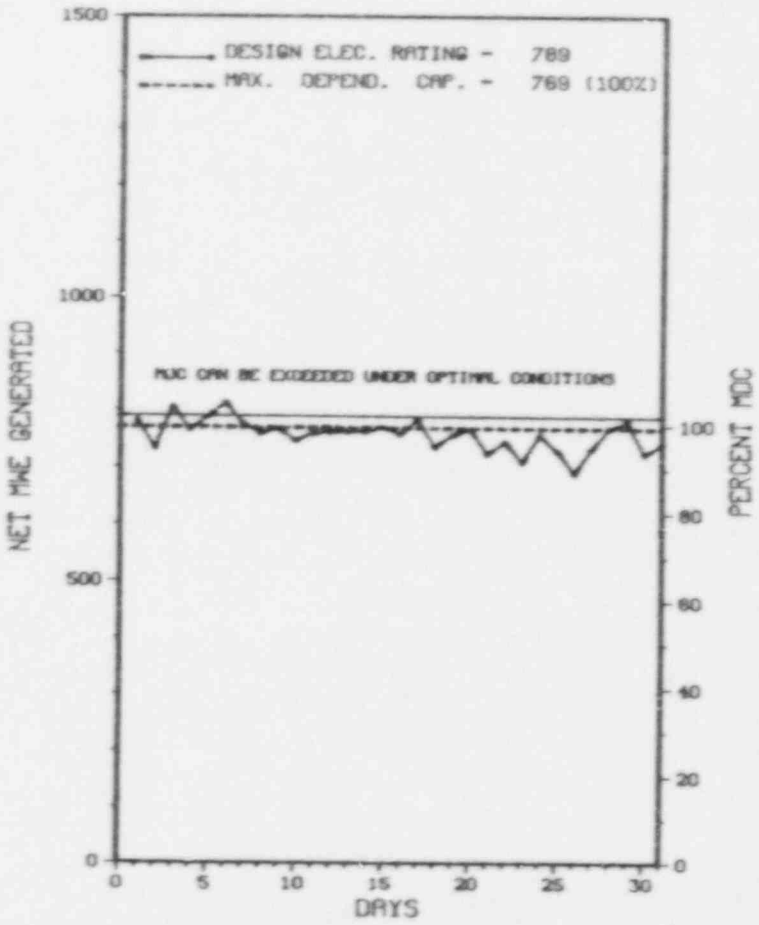
NONE

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

****
* QUAD CITIES 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

QUAD CITIES 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* QUAD CITIES 1 *
****

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

****
* SUMMARY *
****

QUAD CITIES 1 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			5-Other	(LER) File (NUREG-0161)

****
* QUAD CITIES 1 *
****

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

Report Period MAR 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 ELEC ENER 1ST GENER...APRIL 12, 1972

DATE COMMERCIAL OPERATE....FEBRUARY 18, 1973

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....MISSISSIPPI RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....COMMONWEALTH EDISON

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

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

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULAIORY 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

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

INSPECTION SUMMARY

NONE

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

****
* QUAD CITIES 1 *
****

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING ROUTINELY AT FULL POWER OR EGC

LAST IE SITE INSPECTION DATE: 03/17/88

INSPECTION REPORT NO: 88006

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT

1. Docket: 50-265 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: K.A. CHMIDT (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	744.0	2,184.0	138,382.0
13. Hours Reactor Critical	716.9	2,060.9	106,718.3
14. Rx Reserve Shtdwn Hrs	.0	.0	2,985.3
15. Hrs Generator On-Line	705.6	2,033.3	103,568.9
16. Unit Reserve Shtdwn Hrs	.0	.0	702.9
17. Gross Therm Ener (MWH)	1,552,695	4,648,671	222,019,238
18. Gross Elec Ener (MWH)	502,634	1,507,120	71,064,894
19. Net Elec Ener (MWH)	481,847	1,444,891	66,996,322
20. Unit Service Factor	94.8	93.1	74.8
21. Unit Avail Factor	94.8	93.1	75.4
22. Unit Cap Factor (MDC Net)	84.2	86.0	63.0
23. Unit Cap Factor (DER Net)	82.1	83.9	61.4
24. Unit Forced Outage Rate	5.2	6.9	8.3
25. Forced Outage Hours	38.4	150.5	5,433.7

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

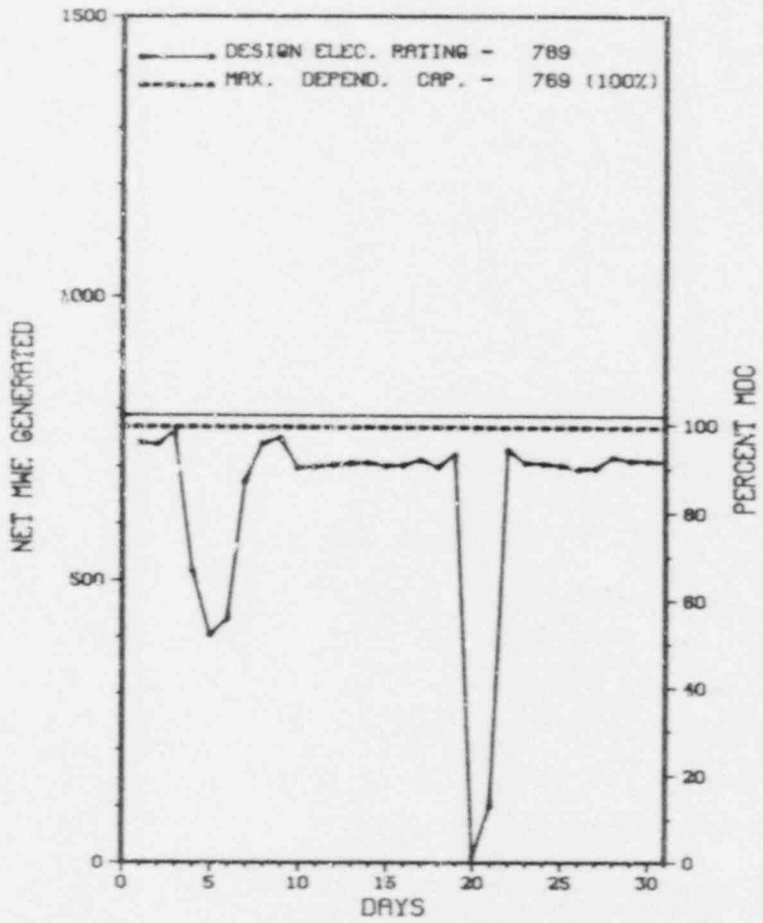
NONE

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

****
* QUAD CITIES 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

QUAD CITIES 2



MARCH 1988

Report Period MAR ;988

U N I T S H U T D O W N S / R E D U C T I O N S

****
* QUAD CITIES 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-3	03/04/88	F	0.0	H	5		HF	ZZZZZZ	POWER REDUCTION DUE TO CONDENSER PROBLEMS RESULTING FROM ACCUMULATION OF FISH ON CIRC WATER SCREENS AND BAYS.
88-4	03/20/88	F	38.4	A	3	2-88-015	IA	VALVES	REACTOR SCRAM DUE TO PACK`NG LEAK ON "B" FEEDWATER REG VALVE - WHILE ATTEMPT,NG TO ISOLATE, WATER FELL ONTO INSTRUMENTATION THAT INITIATED TURBINE TRIP.

****
* SUMMARY *
****

QUAD CITIES 2 INCURRED 1 OUTAGE AND 1 POWER REDUCTION IN MARCH 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 & License Examination		5-Reduced load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* QUAD CITIES 2 *
****

FACILITY DATA

Report Period MAR 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

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DIXON, ILLINOIS 61021

INSPECTION STATUS

INSPECTION SUMMARY

NONE

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

OTHER ITEMS

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT S/D FOR REFUELING ON 4/10/88.

LAST IE SITE INSPECTION DATE: 03/17/88

INSPECTION REPORT NO: 88007

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-02	022388	031088	HIGH PRESSURE COOLANT INJECTION INOPERABLE DUE TO ROOM COOLER LOSS FROM SHORT CIRCUIT OF CONTROL RELAY
88-03	030188	031588	RCIC INOPERABLE DUE TO FAILED GOVERNOR ACTUATOR
88-04	030888	032488	INSUFFICIENT NUMBER OF OPERABLE REACTOR PROTECTION SYSTEM (RPS) CHANNELS DUE TO PERSONNEL ERROR

1. Docket: 50-312 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: R. MILLER (916) 452-3211 X4477

4. Licensed Thermal Power (MWt): 2772

5. Nameplate Rating (Gross MWe): 1070 X 0.9 = 963

6. Design Electrical Rating (Net MWe): 918

7. Maximum Dependable Capacity (Gross MWe): 917

8. Maximum Dependable Capacity (Net MWe): 873

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	113,569.0
13. Hours Reactor Critical	3.5	3.5	52,568.5
14. Rx Reserve Shtdwn Hrs	.0	.0	10,647.7
15. Hrs Generator On-Line	.0	.0	50,363.8
16. Unit Reserve Shtdwn Hrs	.0	.0	1,210.2
17. Gross Therm Ener (MWH)	0	0	124,228,535
18. Gross Elec Ener (MWH)	0	0	41,528,149
19. Net Elec Ener (MWH)	-26,484	-40,325	38,948,870
20. Unit Service Factor	.0	.0	44.3
21. Unit Avail Factor	.0	.0	45.4
22. Unit Cap Factor (MDC Net)	.0	.0	39.3
23. Unit Cap Factor (DER Net)	.0	.0	37.4
24. Unit Forced Outage Rate	100.0	100.0	44.9
25. Forced Outage Hours	703.0	2,143.0	41,048.5

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

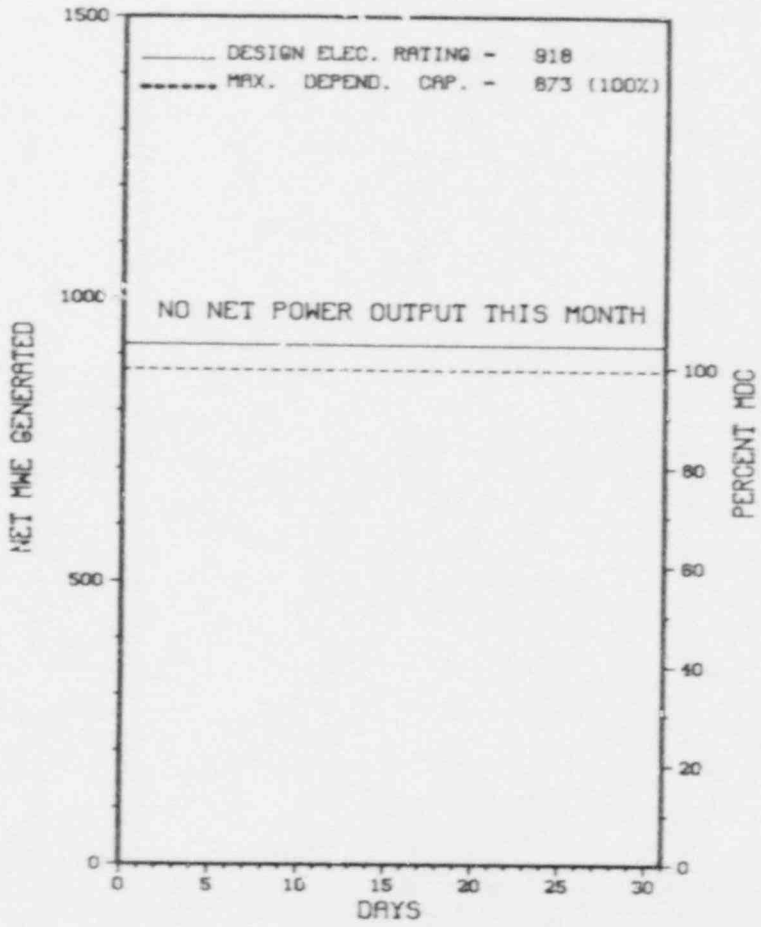
NONE

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

****
* RANCHO SECO 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RANCHO SECO 1



MARCH 1988

Report Period MAR 1988

U N I T S H U T D O W N S / R E D U C T I O N S

****
* RANCHO SECO 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	12/26/85	F	703.0	D	3	85-25	CB	INSTRU	REACTOR TRIP DUE TO HIGH RCS PRESSURE TRIP PRECEDED BY A TOTAL LOSS OF ICS POWER.
2	03/30/88	S	41.0	E	9				OPERATOR TRAINING AND TESTING PRIOR TO POWER GENERATION.

****
* SUMMARY *
****

RANCHO SECO REMAINED SHUTDOWN IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* RANCHO SECO 1 *
****

FACILITY DATA

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 - TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON DECEMBER 5, 1987 - FEBRUARY 03, 1988 (REPORT NO. 50-312/87-44) AREAS INSPECTED: THIS ROUTINE INSPECTION BY THE RESIDENT INSPECTORS INVOLVED THE AREAS OF OPERATIONAL SAFETY VERIFICATIONS, MAINTENANCE, SURVEILLANCE, AND FOLLOWUP ITEMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: IN THE AREAS INSPECTED, ONE VIOLATION WAS 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) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 7-8, 1988 (REPORT NO. 50-312/88-09) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF THE EMERGENCY PREPAREDNESS PROGRAM AND FOLLOW-UP ON OPEN ITEMS. DURING THIS INSPECTION, ONE INSPECTION PROCEDURE WAS UTILIZED.

INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ 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) REPORT BEING PREPARED: TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 26 - APRIL 30, 1988 (REPORT NO. 50-312/88-12) 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 NONCONFORMANCE REPORT. CONTRARY TO THIS REQUIREMENT, ON THREE OCCASIONS NOTED, AN NCR WAS CLOSED PRIOR TO COMPLETION OF THE RELATED ENGENEERING 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 SECO MANAGEMENT INFORMATION SYSTEM REPORT RSMM 0330, DATED JANUARY 4, 1988, IDENTIFIED MATERIALS WITH EXPIRATION DATES FOR THE FIRST QUARTER OF 1988. CONTRARY TO THE STATED REQUIIREMENTS, 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, 1983, 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.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

RESTART TESTING IS BEING MONITORED BY NRR AND REGION V PRIOR TO RETURN TO COMMERCIAL OPERATION.

ENFORCEMENT CONFERENCE WAS HELD ON MAY 16, 1986, ON VIOLATIONS RELATED TO THE DECEMBER 26, 1985, EVENT AND FOLLOWUP ACTIVITIES.

****
* RANCHO SECO 1 *
****

OTHER ITEMS

NRC SALP BOARD MEETING WAS HELD ON AUGUST 12, 1986.

PLANT STATUS:

PLANT IS IN HOT SHUTDOWN AND IS ANTICIPATED TO PROCEED TO REACTOR CRITICALITY AFTER OBTAINING COMMISSION APPROVAL - COMMISSION MEETING TENTATIVELY SCHEDULED FOR MARCH 22, 1988.

LAST IE SITE INSPECTION DATE: 03/26 - 04/30/88+

INSPECTION REPORT NO: 50-312/88-12+

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
87-44-L0	11-10-87	12-04-87	POTENTIAL LOSS OF NSEB HVAC
87-45-L0	11-05-87	12-04-87	MISSED SURVEILLANCE - WEEKLY BATTERY TESTING
87-46-L0	12-15-87	01-13-88	TS SURVEILLANCE MISSED - DHS VALVE STROKE TIME
88-01-L0	01-14-88	02-10-88	LOST AIR FILTER SAMPLE
88-03-L0	02-04-88	03-08-88	PERSONNEL OVEREXPOSURE DUE TO A HOT PARTICLE

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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: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: R. H. MARTIN (504) 635-6094 X4836

4. Licensed Thermal Power (MWt): 2894

5. Nameplate Rating (Gross MWe): 2894

6. Design Electrical Rating (Net MWe): 936

7. Maximum Dependable Capacity (Gross MWe): 936

8. Maximum Dependable Capacity (Net MWe): 936

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	20,400.0
13. Hours Reactor Critical	744.0	2,016.7	13,730.8
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,959.3	12,491.1
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,038,152	5,426,301	30,896,185
18. Gross Elec Ener (MWH)	705,224	1,879,323	10,500,197
19. Net Elec Ener (MWH)	660,693	1,763,475	9,788,680
20. Unit Service Factor	100.0	89.7	61.2
21. Unit Avail Factor	100.0	89.7	61.2
22. Unit Cap Factor (MDC Net)	94.9	86.3	51.3
23. Unit Cap Factor (DER Net)	94.9	86.3	51.3
24. Unit Forced Outage Rate	.0	9.0	12.3
25. Forced Outage Hours	.0	193.5	1,754.4

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

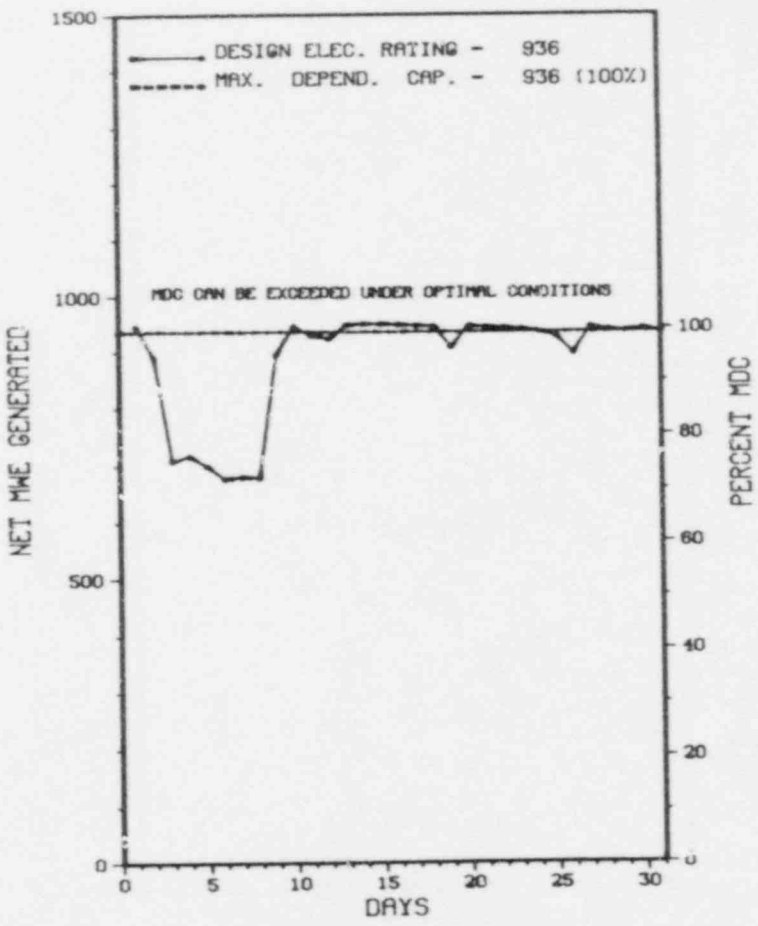
NONE

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

****
* RIVER BEND 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

RIVER BEND 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* RIVER BEND 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-05	03/02/88	S	0.0	A	5				REDUCED POWER TO RESOLVE FEEDWATER REG. VALVE "C" DRIFT AND STEAM LEAK ON "B" REACTOR FEED PUMP.

****
* SUMMARY *
****

RIVER BEND 1 INCURRED 1 POWER REDUCTION IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* RIVER BEND 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....LOUISIANA

COUNTY.....WEST FELICIANA

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...24 MI NNW OF
BATON ROUGE, LA

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...OCTOBER 31, 1985

DATE ELEC ENER 1ST GENER...DECEMBER 3, 1985

DATE COMMERCIAL OPERATE....JUNE 16, 1986

CONDENSER COOLING METHOD...MDCT

CONDENSER COOLING WATER...MISSISSIPPI RIVER

ELECTRIC RELIABILITY
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GULF STATES UTILITIES

CORPORATE ADDRESS.....P.O. BOX 2951
BEAUMONT, LOUISIANA 77704

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

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV

IE RESIDENT INSPECTOR.....D. CHAMBERLAIN

LICENSING PROJ MANAGER.....W. PAULSON
DOCKET NUMBER.....50-458

LICENSE & DATE ISSUANCE....NPF-47, NOVEMBER 20, 1985

PUBLIC DOCUMENT ROOM.....GOVERNMENT DOCUMENTS DEPARTMENT
TROY H. MIDDLETON LIBRARY
LOUISIANA STATE UNIVERSITY
BATON ROUGE, LOUISIANA 70803

INSPECTION 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

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 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: V.E. FRAZIER (803) 383-4524 X 1220

4. Licensed Thermal Power (MWt): 2300

5. Nameplate Rating (Gross MWe): 854 X 0.9 = 769

6. Design Electrical Rating (Net MWe): 700

7. Maximum Dependable Capacity (Gross MWe): 700

8. Maximum Dependable Capacity (Net MWe): 665

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

NONE

10. Power Level To Which Restricted, If Any (Net MWe): 420

11. Reasons for Restrictions, If Any:

ADMINISTRATIVE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	149,696.0
13. Hours Reactor Critical	508.0	1,188.9	106,718.1
14. Rx Reserve Shtdwn Hrs	.0	.0	3,159.6
15. Hrs Generator On-Line	502.4	1,151.6	104,175.9
16. Unit Reserve Shtdwn Hrs	.0	.0	23.2
17. Gross Therm Ener (MWH)	675,438	2,102,159	210,256,720
18. Gross Elec Ener (MWH)	215,906	696,232	68,079,569
19. Net Elec Ener (MWH)	199,635	654,223	64,332,152
20. Unit Service Factor	67.5	52.7	69.6
21. Unit Avail Factor	67.5	52.7	69.6
22. Unit Cap Factor (MDC Net)	40.3	45.0	64.6
23. Unit Cap Factor (DER Net)	38.3	42.8	61.4
24. Unit Forced Outage Rate	32.4	47.2	14.0
25. Forced Outage Hours	240.7	1,031.5	11,234.2

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

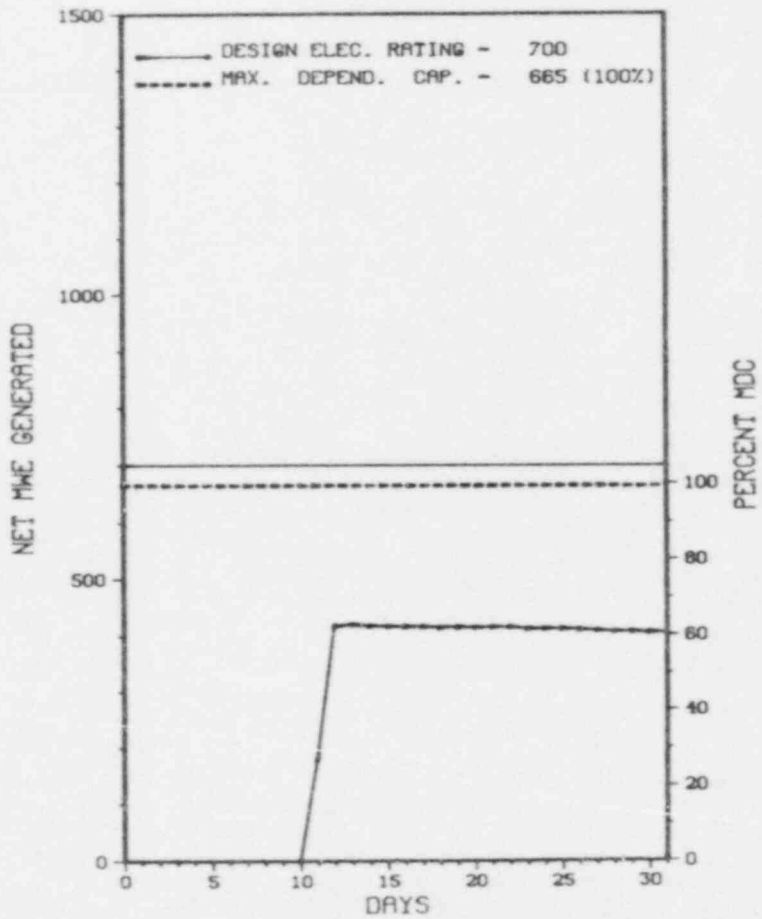
NONE

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

****
* ROBINSON 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ROBINSON 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* ROBINSON 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
0102	01/29/88	F	240.7	D	4	88-003	IC	BATTRY	THE UNIT WAS TAKEN TO COLD SHUTDOWN ON 1/29/88 FOR REVIEW OF UNANALYZED SINGLE FAILURE THAT COULD TAKE TWO OR THREE SAFETY INJECTION PUMPS OUT OF SERVICE. MODIFICATIONS AND ANALYSES WERE PERFORMED TO CORRECT THE DEFICIENCIES, AND THE TECHNICAL SPECIFICATIONS WERE REVISED TO REFLECT THE NEW RESTRICTED OPERATING REQUIREMENTS.
0009	03/11/88	S	0.9	B	9		HA	TURBIN	TURBINE OVERSPEED TEST

****
* SUMMARY *
****

ROBINSON 2 ENTERED MARCH SHUTDOWN. RETURNED TO POWER AND OPERATED AT A NOMINAL POWER LEVEL OF 60% FOR REMAINDER OF MONTH WHILE INCURRING 1 OUTAGE ON MARCH 11.

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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* ROBINSON 2 *
****

FACILITY DATA

Report Period MAR 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 - FEBRUARY 10, AND MARCH 7 (88-03): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF FOLLOWUP ON PREVIOUS INSPECTION ITEMS, OPERATIONAL SAFETY VERIFICATION, PHYSICAL PROTECTION, SURVEILLANCE OBSERVATION, MAINTENANCE OBSERVATION, ESF SYSTEM WALKDOWN, ONSITE FOLLOWUP OF EVENTS AT OPERATING POWER REACTORS, ONSITE REVIEW COMMITTEE, AND NATURAL CIRCULATION COOLDOWN. ONE VIOLATION WAS IDENTIFIED INVOLVING FOUR EXAMPLES OF FAILURE TO OPERATE THE PLANT WITHIN THE DESIGN BASIS. AN ADDITIONAL RELATED VIOLATION WAS IDENTIFIED INVOLVING FAILURE TO IDENTIFY AND CORRECT CONDITIONS ADVERSE TO QUALITY AS REQUIRED BY 10 CFR 50 APPENDIX B, CRITERION XVI.

INSPECTION FEBRUARY 12-13 (88-05): THIS SPECIAL, ANNOUNCED INSPECTION WAS TO OBSERVE POST MODIFICATION TESTING TO VERIFY THE PLANT'S ABILITY TO AUTOMATICALLY START TWO SAFETY INJECTION PUMPS AFTER EACH OF THE FIVE POSTULATED SINGLE FAILURE EVENTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

****
* ROBINSON 2 *
****

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

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.

LAST IE SITE INSPECTION DATE: FEBRUARY 12-13, 1988 +

INSPECTION REPORT NO: 50-261/88-05 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-003	01/28/88	02/27/88	LOSS OF SAFETY INJECTION PUMP AUTOSTART DUE TO EIGHT SINGLE-FAILURE SCENARIOS

1. Docket: 50-272 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	94,273.0
13. Hours Reactor Critical	707.8	849.0	58,544.1
14. Rx Reserve Shtdwn Hrs	0	.0	3,088.4
15. Hrs Generator On-Line	707.8	771.5	56,563.1
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,404,896	2,521,985	174,993,198
18. Gross Elec Ener (MWH)	812,940	845,350	58,037,638
19. Net Elec Ener (MWH)	780,378	788,565	55,185,274
20. Unit Service Factor	95.1	35.3	60.0
21. Unit Avail Factor	95.1	35.3	60.0
22. Unit Cap Factor (MDC Net)	94.8	32.6	52.9
23. Unit Cap Factor (DER Net)	94.1	32.4	52.5
24. Unit Forced Outage Rate	2.8	4.7	25.4
25. Forced Outage Hours	20.2	38.0	19,497.8

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

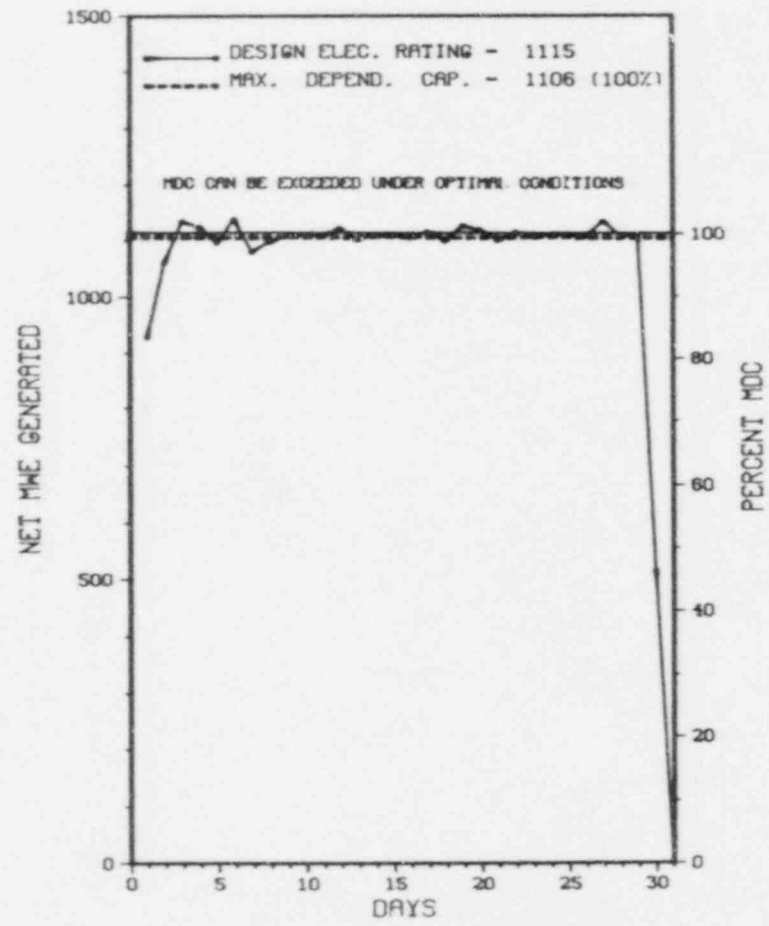
NONE

27. If Currently Shutdown Estimated Startup Date: 04/13/88

****
* SALEM 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SALEM 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* SALEM 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
0031	03/30/88	F	20.2	A	2		HA	INSTRU	TURBINE HYDRAULIC SYSTEM.
0032	03/31/88	S	16.0	B	9		CB	HTEXCH	NUCLEAR STEAM GENERATOR TUBE LEAK.

****
* SUMMARY *
****

SALEM 1 INCURRED 2 OUTAGES IN MARCH 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)

****
* SALEM 1 *
****

FACILITY DATA

Report Period MAR 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

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112 WEST BROADWAY
SALEM, NEW JERSEY 08079

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

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: 03/01/88 Outage + On-line Hrs: 744.0

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

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	56,689.0
13. Hours Reactor Critical	744.0	2,184.0	34,562.1
14. Rx Reserve Shtdwn Hrs	.0	.0	3,533.6
15. Hrs Generator On-line	744.0	2,180.3	33,477.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,532,218	7,321,162	104,086,891
18. Gross Elec Ener (MWH)	845,860	2,439,920	34,069,390
19. Net Elec Ener (MWH)	811,935	2,342,864	32,362,332
20. Unit Service Factor	100.0	99.8	59.1
21. Unit Avail Factor	100.0	99.8	59.1
22. Unit Cap Factor (MDC Net)	98.7	97.0	51.6
23. Unit Cap Factor (DER Net)	97.9	96.2	51.2
24. Unit Forced Outage Rate	.0	.2	31.7
25. Forced Outage Hours	.0	3.7	15,521.6

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

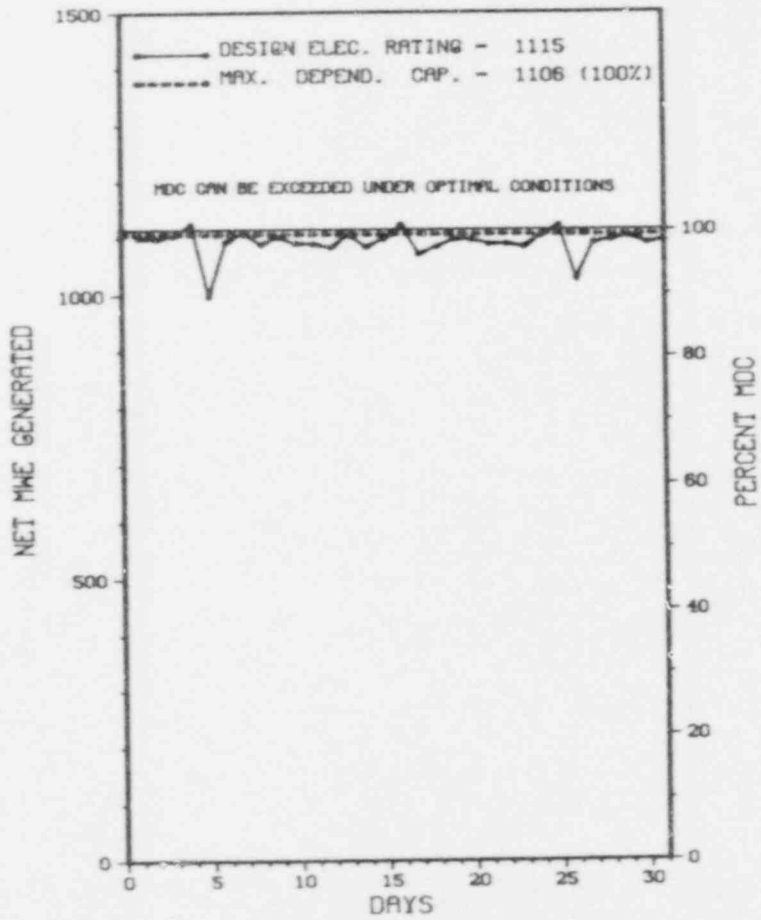
NONE

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

****
* SALEM 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SALEM 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* SALEM 2 *
****

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

****
* SUMMARY *
****

SALEM 2 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SALEM 2 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....NEW JERSEY

COUNTY.....SALEM

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...20 MI S OF
WILMINGTON, DEL

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...AUGUST 8, 1980

DATE ELEC ENER 1ST GENER...JUNE 3, 1981

DATE COMMERCIAL OPERATE....OCTOBER 13, 1981

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....DELAWARE RIVER

ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS

CORPORATE ADDRESS.....80 PARK PLACE
NEWARK, NEW JERSEY 07101

CONTRACTOR
ARCHITECT/ENGINEER.....PUBLIC SERVICES & GAS CO.

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....T. LINVILLE

LICENSING PROJ MANAGER.....D. FISCHER
DOCKET NUMBER.....50-311

LICENSE & DATE ISSUANCE....DPR-75, MAY 20, 1981

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SALEM, NEW JERSEY 08079

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
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: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: E. R. SIACOR (714) 368-6223

4. Licensed Thermal Power (MWt): 1347

5. Nameplate Rating (Gross MWe): 500 X 0.9 = 450

6. Design Electrical Rating (Net MWe): 436

7. Maximum Dependable Capacity (Gross MWe): 456

8. Maximum Dependable Capacity (Net MWe): 436

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

NONE

10. Power Level To Which Restricted, If Any (Net MWe): 390

11. Reasons for Restrictions, If Any:

SELF-IMPOSED TO CONTROL S.G. TUBE CORROSION.

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	182,288.0
13. Hours Reactor Critical	.0	1,068.7	107,540.1
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	1,063.1	103,493.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	1,304,993	130,434,853
18. Gross Elec Ener (MWH)	0	430,200	44,107,926
19. Net Elec Ener (MWH)	-1,124	404,294	41,647,559
20. Unit Service Factor	.0	48.7	56.8
21. Unit Avail Factor	.0	48.7	56.8
22. Unit Cap Factor (MDC Net)	.0	42.5	52.4
23. Unit Cap Factor (DER Net)	.0	42.5	52.4
24. Unit Forced Outage Rate	.0	.0	19.9
25. Forced Outage Hours	.0	.0	13,140.4

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

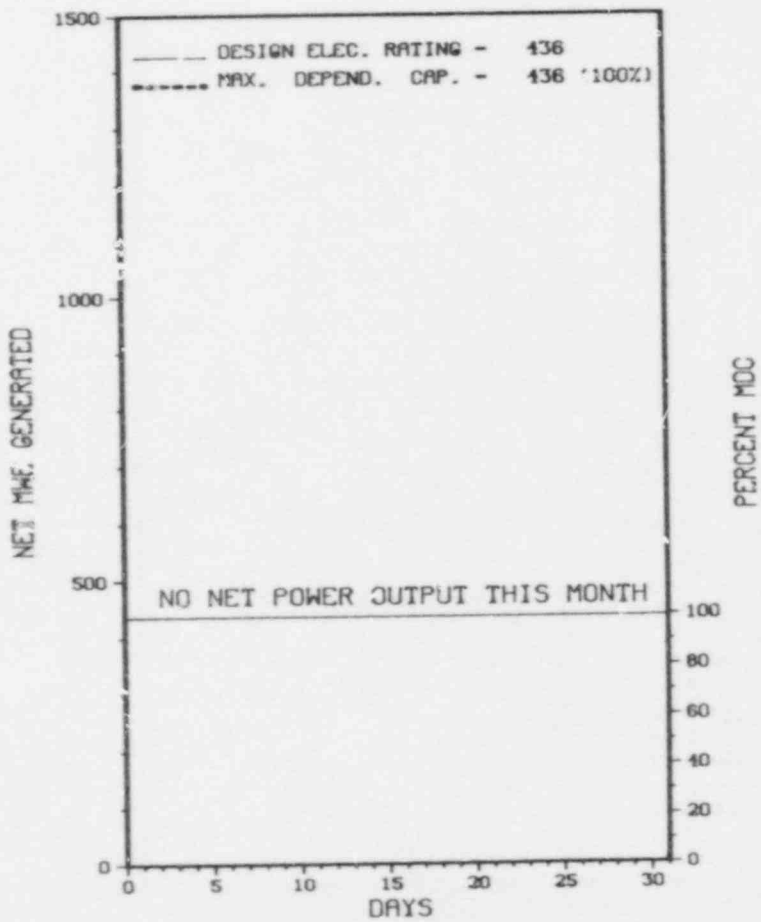
NONE

27. If Currently Shutdown Estimated Startup Date: 04/28/88

****
* SAN ONOFRE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* SAN ONOFRE 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
117	02/14/88	S	672.0	B	4				MID-CYCLE MAINTENANCE OUTAGE.
118	03/28/88	S	72.0	H	9	88-001	BA	ISV	MID-CYCLE MAINTENANCE OUTAGE EXTENDED TO UPGRADE CERTAIN COMPONENTS IN ORDER TO MEET 10CFR 50.49 REQUIREMENTS.

****
* SUMMARY *
****

SAN ONOFRE 1 REMAINED SHUTDOWN IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SAN ONOFRE 1 *
****

FACILITY DATA

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

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INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION ON JANUARY 4 - FEBRUARY 5, 1988 (REPORT NO. 50-206/88-02) AREAS INSPECTED: ROUTINE PROJECT INSPECTION IN THE AREAS OF LICENSED AND NON-LICENSED OPERATOR TRAINING PROGRAMS, INFORMATION NOTICES AND PART 21 REPORT FOLLOWUP, COMPLIANCE WITH ATWS RULE (10 CFR 50.62), DESIGN CHANGE AND MODIFICATION PROGRAMS, SURVEILLANCE TESTING, AND CALIBRATION CONTROL PROGRAMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JANUARY 10 - FEBRUARY 27, 1988 (REPORT NO. 50-206/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-206/88-06) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF MAINTAINING EXPOSURES ALARA AND OCCUPATIONAL EXPOSURE DURING OUTAGES, INCLUDING TOURS OF LICENSEE FACILITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: ONE VIOLATION WAS IDENTIFIED INVOLVING THE POSTING OF A HIGH RADIATION AREA. ONE UNRESOLVED ITEM WAS IDENTIFIED INVOLVING THE DETECTION OF HOT PARTICLES BY THE LICENSEE'S WHOLEBODY COUNTING SYSTEM.

+ INSPECTION ON MARCH 8-11, 1988 (REPORT NO. 50-206/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 9, 1988 (REPORT NO. 50-206/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

****
* SAN ONOFRE 1 *
****

INSPECTION SUMMARY

+ INSPECTION ON MARCH 14-23, 1988 (REPORT NO. 50-206/88-09) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 25 - MARCH 25, 1988 (REPORT NO. 50-206/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ MANAGEMENT MEETING ON MARCH 24, 1988 (REPORT NO. 50-206/88-11) A MANAGEMENT MEETING WAS HELD ON THE ABOVE DATE TO DISCUSS ISSUES OF CURRENT INTEREST RELATING TO THE SAN ONOFRE UNIT 1 NUCLEAR GENERATING STATION.

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

PLANT STATUS:

+ THE UNIT WAS SHUT DOWN ON FEBRUARY 13, 1988, FOR A 45-DAY PLANNED MAINTENANCE OUTAGE (NO REFUELING). THE PURPOSE OF THE OUTAGE WAS TO SHORTEN THE UNIT'S CYCLE X REFUELING OUTAGE AND TO PREVENT CONCURRENT REFUELING OUTAGES WITH UNIT 3. THE UNIT WAS STILL SHUT DOWN AS OF THE END OF MARCH 1988 TO CORRECT IDENTIFIED ENVIRONMENTAL QUALIFICATION DEFICIENCIES.

LAST IE SITE INSPECTION DATE: 02/28 - 04/09/88+

INSPECTION REPORT NO: 50-206/88-08+

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-03-L0	02-08-88	02-19-88	SAFETY INJECTION SYSTEM SUCTION PIPING BORON CONCENTRATION REQUIREMENTS

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1. Docket: 50-361 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: E. R. SIACOR (714) 368-6223

4. Licensed Thermal Power (MWt): 3390

5. Nameplate Rating (Gross MWe): 1127

6. Design Electrical Rating (Net MWe): 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	744.0	2,184.0	40,753.0
13. Hours Reactor Critical	385.9	1,825.9	27,618.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	385.5	1,812.1	26,997.8
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,217,237	5,935,250	86,901,673
18. Gross Elec Ener (MWH)	446,884	2,075,957	29,338,531
19. Net Elec Ener (MWH)	419,085	1,973,844	27,762,724
20. Unit Service Factor	51.8	83.0	66.2
21. Unit Avail Factor	51.8	83.0	66.2
22. Unit Cap Factor (MDC Net)	52.6	84.5	63.7
23. Unit Cap Factor (DER Net)	52.6	84.5	63.7
24. Unit Forced Outage Rate	.0	.0	4.2
25. Forced Outage Hours	.0	.0	1,183.5

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

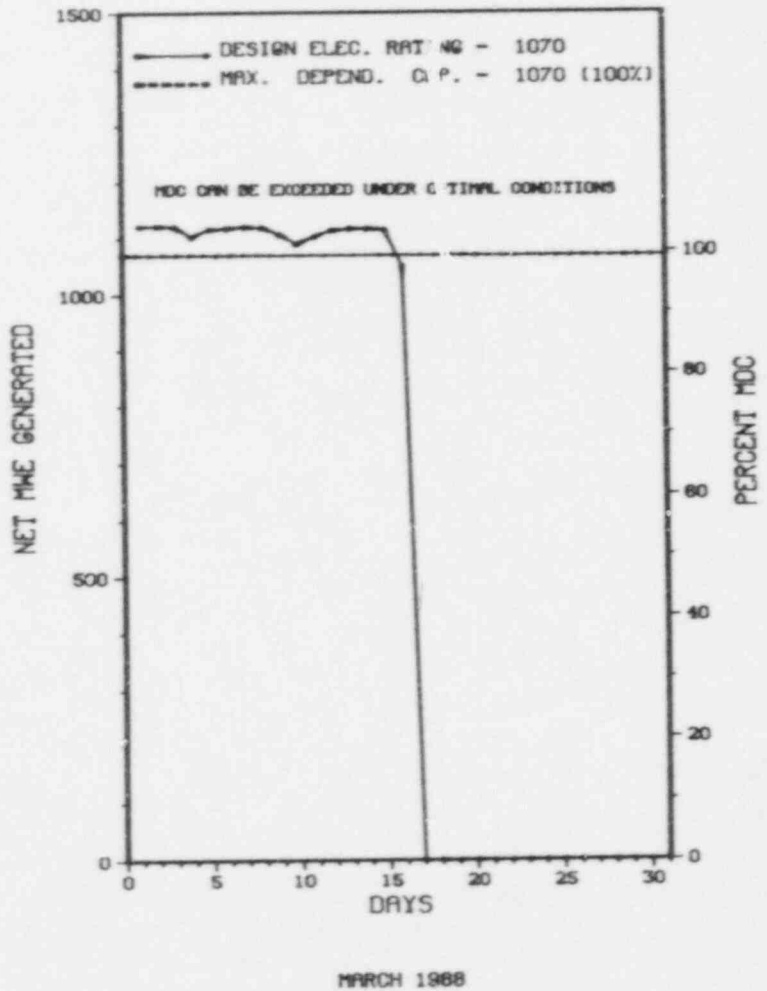
NONE

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

****
* SAN ONOFRE 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 2



MARCH 1988

Report Period MAR 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	358.5	B	1			SG	UNIT NORMALLY SHUTDOWN FROM 100% POWER FOR INSPECTION AND REPAIRS TO STEAM GENERATOR E-088 TUBE LEAKS.

SUMMARY

SAN ONOFRE INCURRED 1 POWER OUTAGE IN MARCH FOR REASONS STATED ABOVE, AND REMAINED SHUTDOWN AT MONTHS END.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SAN ONOFRE 2 *
****

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

FACILITY DESCRIPTION

LOCATION
STATE.....CALIFORNIA

COUNTY.....SAN DIEGO

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI S OF
SAN CLEMENTE, CA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...JULY 26, 1982

DATE ELEC ENER 1ST GENER...SEPTEMBER 20, 1982

DATE COMMERCIAL OPERATE....AUGUST 8, 1983

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....PACIFIC OCEAN

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....SOUTHERN CALIFORNIA EDISON

CORPORATE ADDRESS.....P.O. BOX 800
ROSEMEAD, CALIFORNIA 91770

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC COM (ENG VERSION)

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....R. HUEY

LICENSING PROJ MANAGER. ...D. HICKMAN
DOCKET NUMBER.....50-361

LICENSE & DATE ISSUANCE....NPF-10, SEPTEMBER 7, 1982

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

INSPECTION SUMMARY

+ INSPECTION ON JANUARY 4 - FEBRUARY 5, 1988 (REPORT NO. 50-361/88-02) AREAS INSPECTED: ROUTINE PROJECT INSPECTION IN THE AREAS OF LICENSED AND NON-LICENSED OPERATOR TRAINING PROGRAMS, INFORMATION NOTICES AND PART 21 REPORT FOLLOWUP, COMPLIANCE WITH ATWS RULE (10 CFR 50.62), DESIGN CHANGE AND MODIFICATION PROGRAMS, SURVEILLANCE TESTING, AND CALIBRATION CONTROL PROGRAMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JANUARY 10 - FEBRUARY 27, 1988 (REPORT NO. 50-361/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-361/88-06) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF MAINTAINING EXSPOSURES ALARA, INCLUDING TOURS OF LICENSEE FACILITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 8-14, 1988 (REPORT NO. 50-361/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 9, 1988 (REPORT NO. 50-361/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ THE UNIT WAS SHUT DOWN ON MARCH 17, 1988 TO CORRECT TUBE LEAKAGE IN STEAM GENERATOR E088. THE LEAK WAS FOUND TO BE DUE TO A TUBE PLUG MISSING FROM A TUBE WHICH HAD PREVIOUSLY BEEN PREVENTIVELY PLUGGED. ONE PLUG WAS ALSO MISSING FROM STEAM GENERATOR E089. THE PLUGS WERE REPLACED, AND AN ADDITIONAL LEAKING PLUG IN EACH STEAM GENERATOR WAS CORRECTED. PREPARATION OF A SAFETY EVALUATION FOR THE MISSING PLUGS WAS IN PROGRESS AT THE END OF MARCH.

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: 02/28 - 04/09/88+

INSPECTION REPORT NO: 50-361/88-08+

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

1. Docket: 50-362 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: E. R. SIACOR (714) 368-6223

4. Licensed Thermal Power (MWt): 3390

5. Nameplate Rating (Gross MWe): 1127

6. Design Electrical Rating (Net MWe): 1080

7. Maximum Dependable Capacity (Gross MWe): 1127

8. Maximum Dependable Capacity (Net MWe): 1080

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	35,064.0
13. Hours Reactor Critical	744.0	1,935.7	25,658.2
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,884.2	24,758.1
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,505,525	6,270,329	75,726,090
18. Gross Elec Ener (MWH)	862,796	2,155,483	25,633,377
19. Net Elec Ener (MWH)	821,746	2,039,074	24,126,740
20. Unit Service Factor	100.0	86.3	70.6
21. Unit Avail Factor	100.0	86.3	70.6
22. Unit Cap Factor (MDC Net)	102.3	86.4	63.7
23. Unit Cap Factor (DER Net)	102.3	86.4	63.7
24. Unit Forced Outage Rate	.0	13.7	9.9
25. Forced Outage Hours	.0	299.8	2,708.6

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

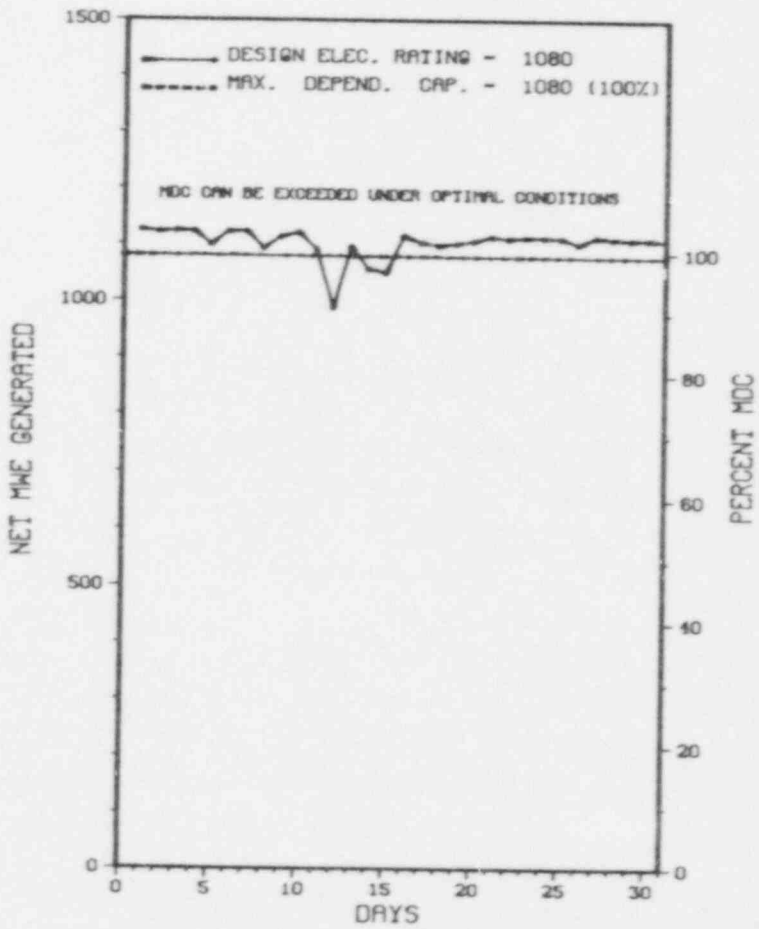
REFUELING - APRIL 30, 1988- 78 DAY DURATION.

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

SAN ONOFRE 3

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SAN ONOFRE 3



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

SAN ONOFRE 3

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

SUMMARY

SAN ONOFRE 3 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SAN ONOFRE 3 *
****

FACILITY DATA

Report Period MAR 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 OPERATZ....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

+ INSPECTIONS ON JANUARY 4 - FEBRUARY 5, 1988 (REPORT NO. 50-362/88-02) AREAS INSPECTED: ROUTINE PROJECT INSPECTION IN THE AREAS OF LICENSED AND NON-LICENSED OPERATOR TRAINING PROGRAMS, INFORMATION NOTICES AND PART 21 REPORT FOLLOWUP, COMPLIANCE WITH ATWS RULE (10 CFR 50.62), DESIGN CHANGE AND MODIFICATION PROGRAMS, SURVEILLANCE TESTING, AND CALIBRATION CONTROL PROGRAMS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JANUARY 10 - FEBRUARY 27, 1988 (REPORT NO. 50-362/88-03) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 29 - MARCH 4, 1988 (REPORT NO. 50-362/88-06) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF MAINTAINING EXPOSURES ALARA, INCLUDING TOURS OF LICENSEE FACILITIES. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 8-11, 1988 (REPORT NO. 50-362/88-07) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 28 - APRIL 9, 1988 (REPORT NO. 50-362/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE UNIT CONTINUED FULL POWER OPERATION DURING MARCH.

LAST IE SITE INSPECTION DATE: 02/28 - 04/09/88+

INSPECTION REPORT NO: 50-362/88-08+

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: 50-327 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: DAVID DUPREE (615) 870-6722

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1220

6. Design Electrical Rating (Net MWe): 1148

7. Maximum Dependable Capacity (Gross MWe): 1183

8. Maximum Dependable Capacity (Net MWe): 1148

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	59,185.0
13. Hours Reactor Critical	.0	.0	24,444.7
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	.0	23,871.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	77,060,921
18. Gross Elec Ener (MWH)	0	0	25,978,386
19. Net Elec Ener (MWH)	-4,315	-18,901	24,835,422
20. Unit Service Factor	.0	.0	40.3
21. Unit Avail Factor	.0	.0	40.3
22. Unit Cap Factor (MDC Net)	.0	.0	36.6
23. Unit Cap Factor (DER Net)	.0	.0	36.6
24. Unit Forced Outage Rate	100.0	100.0	52.2
25. Forced Outage Hours	744.0	2,184.0	26,075.1

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

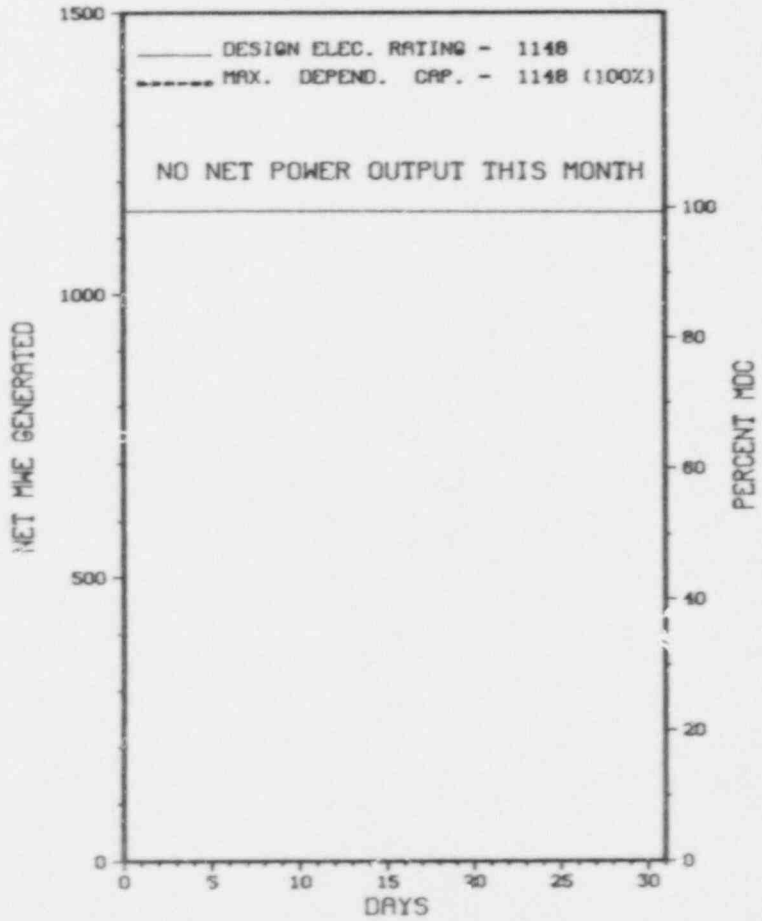
NONE

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

****
* SEQUOYAH 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SEQUOYAH 1



MARCH 1988

Report Period MAR 1983 UNIT SHUTDOWNS / REDUCTIONS

****
* SEQUOYAH 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	12/20/85	F	744.0	F	4				DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

****
* SUMMARY *
****

SEQUOYAH 1 REMAINED SHUTDOWN IN MARCH BECAUSE OF DESIGN CONTROL, CONFIGURATION UPDATING AND EMPLOYEE CONCERNS.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SEQUOYAH 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....TENNESSEE

COUNTY.....HAMILTON

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...9.5 MI NE OF
CHATTANOOGA, TN

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...JULY 5, 1980

DATE ELEC ENER 1ST GENER...JULY 22, 1980

DATE COMMERCIAL OPERATE....JULY 1, 1981

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....CHICKAMAUGA LAKE

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....TENNESSEE VALLEY AUTHORITY

CORPORATE ADDRESS.....6 NORTH 38A LOOKOUT PLACE
CHATTANOOGA, TENNESSEE 37401

CONTRACTOR
ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....TENNESSEE VALLEY AUTHORITY

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....E. FORD

LICENSING PROJ MANAGER.....E. MCKENNA
DOCKET NUMBER.....50-327

LICENSE & DATE ISSUANCE....DPR-77, SEPTEMBER 17, 1980

PUBLIC DOCUMENT ROOM.....CHATTANOOGA - HAMILTON BICENTENNIAL LIBRARY
1001 BROAD STREET
CHATTANOOGA, TENNESSEE 37402

INSPECTION STATUS

INSPECTION SUMM

+ INSPECTION AUGUST 24-28 - SEPTEMBER 8-11 (87-59): THIS ANNOUNCED TEAM INSPECTION WAS CONDUCTED TO EVALUATE MANAGEMENT EFFECTIVENESS AT THE SEQUOYAH SITE IN THE AREAS OF OPERATIONS, MAINTENANCE, QUALITY ASSURANCE, MODIFICATIONS, ENGINEERING AND LICENSING. CORPORATE INTERFACES WITH SOME SITE DISCIPLINES WERE ALSO EXAMINED. IN ADDITION, CORPORATE PROGRAMS FOR MANAGEMENT IMPROVEMENT WERE EXAMINED. SELECTED COMMITMENTS MADE IN VOLUMES 1 AND 2 OF THE TVA NUCLEAR PERFORMANCE PLANS WERE ALSO MONITORED. THIS INSPECTION FOCUSED ON MANAGEMENT FUNCTIONS AND WAS NOT A TYPICAL NRC INSPECTION DEALING DIRECTLY WITH REGULATORY COMPLIANCE ISSUES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION. ONE ISSUE WAS IDENTIFIED AS A RESTART ITEM. OVERALL, THE RESULTS OF THIS INSPECTION INDICATE THAT THE SEQUOYAH SITE MANAGEMENT PROCESSES ARE SUFFICIENTLY EFFECTIVE TO SUPPORT PLANT RESTART.

INSPECTION OCTOBER 5-18 (87-68): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF ALLEGATIONS AND LICENSEE ACTION ON INSPECTOR IDENTIFIED ITEMS. THREE VIOLATIONS WERE IDENTIFIED INVOLVING DIVISION OF NUCLEAR ENGINEERING (DNE) TRAINING, INEFFECTIVE FOLLOWUP ON AUDIT FINDINGS AND IMPROPER CORRECTIONS TO QUALITY ASSURANCE (QA) RECORDS.

INSPECTION OCTOBER 26-30, 1987 - JANUARY 4-14, 1988 (87-73): THIS SPECIAL ANNOUNCED INSPECTION WAS CONDUCTED TO ASSESS TVA'S READINESS TO SUPPORT SEQUOYAH UNIT 2 ENTRY INTO MODE 4 AND MODE 3. THE AREAS REVIEWED INCLUDED STATUS OF MC94300 ITEMS ASSOCIATED WITH HEATUP, TESTING ACTIVITIES, PLANT HEATUP PROCEDURE, TVA'S OPERATIONAL READINESS ASSESSMENT, COMPENSATORY MEASURES, AND CONTROL OF OPERATIONS. IN AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED THAT INVOLVED THE FAILURE TO PERFORM OR ADEQUATELY PERFORM A WRITTEN SAFETY EVALUATION FOR MODIFICATIONS TO THE FACILITY WHICH INVOLVED COMPENSATORY ACTION FOR DEFEATED SAFETY FUNCTIONS.

INSPECTION SUMMARY

INSPECTION DECEMBER 14-18 AND FEBRUARY 2-4 (87-78): THIS ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF RESTART EMPLOYEE CONCERNS RECEIVED BY THE NRC. VIOLATIONS IDENTIFIED DURING THIS INSPECTION INCLUDE: TECHNICAL SPECIFICATION (TS) 6.8.1 FOR FAILURE TO ADEQUATELY IMPLEMENT THE REQUIREMENTS OF AI-30 AND AI-2 FOR CONTROL OF OPERATOR OVERTIME. EXAMPLES WERE NOTED WHERE PLANT MANAGER AUTHORIZATION WAS NOT OBTAINED TO EXCEED SPECIFIED OVERTIME LIMITS AND WHERE THE DEVIATION FORMS WERE NOT FORWARDED WITHIN ONE WORKING DAY AFTER THE DEVIATION OCCURRED. A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION V FOR FAILURE TO PRESCRIBE IN INSTRUCTIONS OR PROCEDURES THE TRAINING AND QUALIFICATION REQUIREMENTS FOR COMPOSITE CREWS. COMPOSITE CREWS WERE IMPLEMENTED PRIOR TO HAVING ESTABLISHED TRAINING AND QUALIFICATION REEQUIREMENTS FOR FOREMEN AND GENERAL FOREMEN SUPERVISING PERSONNEL IN OTHER CRAFTS AND FOR CRAFTSMEN PERFORMING WORK AND INDEPENDENT VERIFICATION OUTSIDE OF THEIR CRAFT.

INSPECTION JANUARY 25-29 (88-11): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED: MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM, SECURITY PROGRAM AUDIT, PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS, ACCESS CONTROL - PERSONNEL AND PACKAGES, DETECTION AIDS - PROTECTED AND VITAL AREAS, AND ALARM STATIONS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

INSPECTION FEBRUARY 8-12 (88-15): THIS ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, LICENSEE EVENT REPORT FOLLOW-UP, NRC INFORMATION NOTICES, POTENTIAL REPORTABLE OCCURRENCES, PROBLEM IDENTIFICATION REPORTS, INDUSTRY GENERATED NUCLEAR EXPERIENCE REVIEW ITEMS, IE BULLETINS, AND CONDITION ADVERSE TO QUALITY REPORTS (CAQRS). THE INSPECTION WAS CONDUCTED TO DETERMINE IF THE PROGRAMS AND CORRECTIVE ACTIONS IMPLEMENTED ARE EFFECTIVE IN ASSURING ADVERSE CONDITIONS, INCLUDING GENERIC ISSUES ARE DISPOSITIONED ADEQUATELY. NO VIOLATIONS WERE IDENTIFIED DURING THIS INSPECTIO EFFORT. HOWEVER, BASED ON THE ISSUES DISCUSSED IN THE DETAILS SECTION OF THIS REPORT, THE LICENSEE'S CORRECTIVE ACTION PROGRAM NEEDS IMPROVEMENT IN THE FOLLOWING AREAS IN ORDER TO ENSURE PROMPT EVALUATION AND CORRECTION OF CONDITIONS ADVERSE TO QUALITY (CAQS), PROBLEM IDENTIFICATION REPORTS (PIRS) AND NUCLEAR EXPERIENCE REVIEW (NER) ITEMS AND IT IS NOT APPROPRIATE TO CONSIDER REMOVAL OF THE RESTRICTIONS APPLIED TO THE SEQUOYAH SITE BY ORDER EA 85-49. AREAS REQUIRING ADDITIONAL LICENSEE ACTION ARE: IMPROVE THE SPEED AND RELIABILITY OF OPERABILITY/SIGNIFICANCE DETERMINATIONS, AND ROOT CAUSE DETERMINATION. ENSURE THOSE PERSONNEL WHO MAKE OPERABILITY/SIGNIFICANCE DETERMINATIONS IN THE GENERIC CAQ, AND NUCLEAR EXPERIENCE REVIEW (NER) PROCESSES ARE ADEQUATELY TRAINED AND POSSESS THE CORRECT QUALIFICATIONS TO MAKE OPERABILITY/SIGNIFICANCE DETERMINATIONS. IMPROVE THE COMPLETENESS AND AUDITABILITY OF CAQ DOCUMENTATION REQUIRED FOR ADEQUATE MANAGEMENT REVIEWS PRIOR TO CLOSURE. ENSURE MANAGERIAL CAQR TRAINING REQUIREMENTS IMPOSED BY ORDER EA 85-49 ARE CURRENT. RESOLVE SPECIFIED TECHNICAL QUESTIONS UNIQUE TO CERTAIN INDIVIDUAL CAQRS. THE LICENSEE'S CORRECTIVE ACTIONS WILL BE REVIEWED IN A FOLLOWUP INSPECTION, 327,328/88-19.

INSPECTION FEBRUARY 12 - 26 (88-17): 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 EXTENDED CONTROL ROOM AND PLANT ACTIVITY COVERAGE BY NRC INSPECTORS AND MANAGERS. ONE VIOLATION WAS IDENTIFIED, 327,328/88-17-01; FAILURE TO FOLLOW PROCEDURE - THREE EXAMPLES. AN ADDITIONAL EXAMPLES OF PREVIOUS VIOLATION 327,328/87-78-01 WAS ALSO IDENTIFIED.

INSPECTION MARCH 3 (88-21): THIS SPECIAL, ANNOUNCED INSPECTION INVOLVED A REVIEW OF THE PREVIOUSLY IDENTIFIED VITAL AREA BARRIER ISSUES AND A FOLLOWUP TO THE LICENSEE'S INSPECTOR GENERAL'S OFFICE INVESTIGATION OF ALLEGED DRUG USE. NO VIOLATIONS WERE IDENTIFIED.

INSPECTION JANUARY 19-22 (88-23): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED INSPECTION ONSITE BY MEMBERS OF THE OFFICE OF SPECIAL PROJECTS STAFF IN THE AREA OF EVENT EVALUATION AND LICENSEE EVENT REPORT GENERATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. FOUR RECOMMENDED ACTIONS 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

ENFORCEMENT SUMMARY

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 (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 SHELL 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

ENFORCEMENT SUMMARY

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.

LAST IE SITE INSPECTION DATE: JANUARY 19-22, 1988 +

INSPECTION REPORT NO: 50-327/88-23 +

REPORTS FROM LICENSEE

SEQUOYAH 1

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-006	01/27/88	02/25/88	INSTRUMENT MAINTENANCE TECHNICIAN INADVERIENTLY REMOVED INCORRECT RAD MON MOD WHICH CAUSED CONTAINMENT VENT ISOLATION
88-007	01/24/88	02/23/88	OPENING OF U 1 CONTAINMENT RESULTS IN SEC CONTAINMENT ENV OUTSIDE THE BOUNDARY SET FOR SURVEY TESTING OF AUXILIARY BLDG GTS
88-008	01/30/88	02/25/88	PERSONNEL NOT PROPERLY IMPLEMENTING APPROVED ADMIN PROCEDURE RESULTING IN INAPP EXITING A TS ACTION STMT ON RAD MON
88-009	02/04/88	02/26/88	INADEQUATE PROCEDURE CAUSED INACCURATE PRIMARY TO SECONDARY LEAK RATES TO BE MEASURED RESULTING IN NONCOM WITH A LCO
88-010	02/05/88	03/05/88	INADEQUATE REV OF DESIGN BASIS OF TWO ESF ACTUATED VALVES RESULTED IN POTENTIAL FOR PLANT OPER OUTSIDE THE DESIGN BASIS
88-011	02/15/88	03/16/88	INADEQUATE DETERMINATION OF THE EFFECT OF ROUTINE D/G TESTING RESULTED IN BOTH TRAINS OF THE CONTROL RM EMER VENT SYS INO
88-012	03/01/88	03/25/88	ENG SAFETY FEATURE ACTUATION CONTAINMENT VENTILATION ISOLATION CAUSED BY ELECTROMAGNETIC INTERFERENCE

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1. Docket: 50-328 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: DAVID DUPREE (615) 870-6722

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1220

6. Design Electrical Rating (Net MWe): 1148

7. Maximum Dependable Capacity (Gross MWe): 1183

8. Maximum Dependable Capacity (Net MWe): 1148

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	51,145.0
13. Hours Reactor Critical	.0	.0	21,984.5
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.0	.0	21,494.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	0	69,127,974
18. Gross Elec Ener (MWH)	0	0	23,536,780
19. Net Elec Ener (MWH)	-22,004	-42,598	22,465,548
20. Unit Service Factor	.0	.0	42.0
21. Unit Avail Factor	.0	.0	42.0
22. Unit Cap Factor (MDC Net)	.0	.0	38.3
23. Unit Cap Factor (DER Net)	.0	.0	38.3
24. Unit Forced Outage Rate	100.0	100.0	53.6
25. Forced Outage Hours	744.0	2,184.0	24,827.3

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

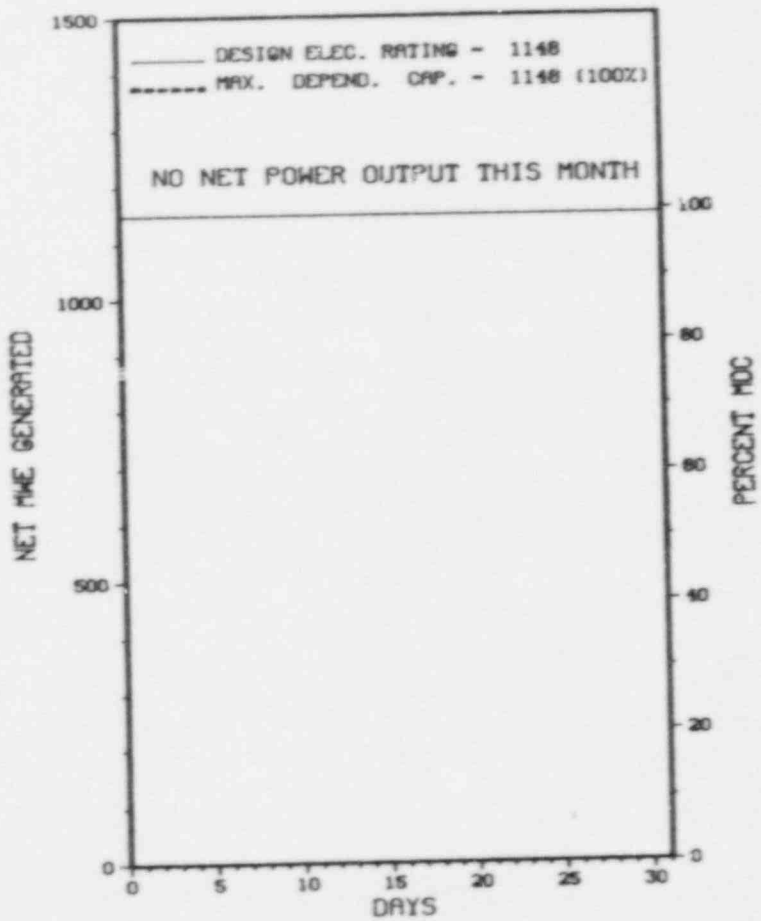
NONE

27. If Currently Shutdown Estimated Startup Date: 04/01/88

****
* SEQUOYAH 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SEQUOYAH 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* SEQUOYAH 2 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	08/21/85	F	744.0	F	4				DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

****
* SUMMARY *
****

SEQUOYAH 2 REMAINED SHUTDOWN IN MARCH BECAUSE OF DESIGN CONTROL, CONFIGURATION UPDATING, AND EMPLOYEE CONCERNS.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SEQUOYAH 2 *
****

FACILITY DATA

Report Period MAR 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 24-28 - SEPTEMBER 8-11 (87-59): THIS ANNOUNCED TEAM INSPECTION WAS CONDUCTED TO EVALUATE MANAGEMENT EFFECTIVENESS AT THE SEQUOYAH SITE IN THE AREAS OF OPERATIONS, MAINTENANCE, QUALITY ASSURANCE, MODIFICATIONS, ENGINEERING AND LICENSING. CORPORATE INTERFACES WITH SOME SITE DISCIPLINES WERE ALSO EXAMINED. IN ADDITION, CORPORATE PROGRAMS FOR MANAGEMENT IMPROVEMENT WERE EXAMINED. SELECTED COMMITMENTS MADE IN VOLUMES 1 AND 2 OF THE TVA NUCLEAR PERFORMANCE PLANS WERE ALSO MONITORED. THIS INSPECTION FOCUSED ON MANAGEMENT FUNCTIONS AND WAS NOT A TYPICAL NRC INSPECTION DEALING DIRECTLY WITH REGULATORY COMPLIANCE ISSUES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION. ONE ISSUE WAS IDENTIFIED AS A RESTART ITEM. OVERALL, THE RESULTS OF THIS INSPECTION INDICATE THAT THE SEQUOYAH SITE MANAGEMENT PROCESSES ARE SUFFICIENTLY EFFECTIVE TO SUPPORT PLANT RESTART.

INSPECTION OCTOBER 5-18 (87-68): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF ALLEGATIONS AND LICENSEE ACTION ON INSPECTOR IDENTIFIED ITEMS. THREE VIOLATIONS WERE IDENTIFIED INVOLVING DIVISION OF NUCLEAR ENGINEERING (DNE) TRAINING, INEFFECTIVE FOLLOWUP ON AUDIT FINDINGS AND IMPROPER CORRECTIONS TO QUALITY ASSURANCE (QA) RECORDS.

INSPECTION OCTOBER 26-30, 1987 - JANUARY 4-14, 1988 (87-73): THIS SPECIAL ANNOUNCED INSPECTION WAS CONDUCTED TO ASSESS TVA'S READINESS TO SUPPORT SEQUOYAH UNIT 2 ENTRY INTO MODE 4 AND MODE 3. THE AREAS REVIEWED INCLUDED STATUS OF MC94300 ITEMS ASSOCIATED WITH HEATUP, TESTING ACTIVITIES, PLANT HEATUP PROCEDURE, TVA'S OPERATIONAL READINESS ASSESSMENT, COMPENSATORY MEASURES, AND CONTROL OF OPERATIONS. IN AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED THAT INVOLVED THE FAILURE TO PERFORM OR ADEQUATELY PERFORM A WRITTEN SAFETY EVALUATION FOR MODIFICATIONS TO THE FACILITY WHICH INVOLVED COMPENSATORY ACTION FOR DEFEATED SAFETY FUNCTIONS.

INSPECTION SUMMARY

INSPECTION DECEMBER 14-18 AND FEBRUARY 2-4 (87-78): THIS ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF RESTART EMPLOYEE CONCERNS RECEIVED BY THE NRC. VIOLATIONS IDENTIFIED DURING THIS INSPECTION INCLUDE: TECHNICAL SPECIFICATION (TS) 6.8.1 FOR FAILURE TO ADEQUATELY IMPLEMENT THE REQUIREMENTS OF AI-30 AND AI-2 FOR CONTROL OF OPERATOR OVERTIME. EXAMPLES WERE NOTED WHERE PLANT MANAGER AUTHORIZATION WAS NOT OBTAINED TO EXCEED SPECIFIED OVERTIME LIMITS AND WHERE THE DEVIATION FORMS WERE NOT FORWARDED WITHIN ONE WORKING DAY AFTER THE DEVIATION OCCURRED. A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION V FOR FAILURE TO PRESCRIBE IN INSTRUCTIONS OR PROCEDURES THE TRAINING AND QUALIFICATION REQUIREMENTS FOR COMPOSITE CREWS. COMPOSITE CREWS WERE IMPLEMENTED PRIOR TO HAVING ESTABLISHED TRAINING AND QUALIFICATION REQUIREMENTS FOR FOREMEN AND GENERAL FOREMEN SUPERVISING PERSONNEL IN OTHER CRAFTS AND FOR CRAFTSMEN PERFORMING WORK AND INDEPENDENT VERIFICATION OUTSIDE OF THEIR CRAFT.

INSPECTION JANUARY 25-29 (88-11): THIS ROUTINE, UNANNOUNCED PHYSICAL SECURITY INSPECTION EXAMINED: MANAGEMENT EFFECTIVENESS - SECURITY PROGRAM, SECURITY PROGRAM AUDIT, PHYSICAL BARRIERS - PROTECTED AND VITAL AREAS, ACCESS CONTROL - PERSONNEL AND PACKAGES, DETECTION AIDS - PROTECTED AND VITAL AREAS, AND ALARM STATIONS. NO VIOLATIONS OF REGULATORY REQUIREMENTS WERE IDENTIFIED.

INSPECTION FEBRUARY 8-12 (88-15): THIS ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, LICENSEE EVENT REPORT FOLLOW-UP, NRC INFORMATION NOTICES, POTENTIAL REPORTABLE OCCURRENCES, PROBLEM IDENTIFICATION REPORTS, INDUSTRY GENERATED NUCLEAR EXPERIENCE REVIEW ITEMS, IE BULLETINS, AND CONDITION ADVERSE TO QUALITY REPORTS (CAQRS). THE INSPECTION WAS CONDUCTED TO DETERMINE IF THE PROGRAMS AND CORRECTIVE ACTIONS IMPLEMENTED ARE EFFECTIVE IN ASSURING ADVERSE CONDITIONS, INCLUDING GENERIC ISSUES ARE DISPOSITIONED ADEQUATELY. NO VIOLATIONS WERE IDENTIFIED DURING THIS INSPECTIO EFFORT. HOWEVER, BASED ON THE ISSUES DISCUSSED IN THE DETAILS SECTION OF THIS REPORT, THE LICENSEE'S CORRECTIVE ACTION PROGRAM NEEDS IMPROVEMENT IN THE FOLLOWING AREAS IN ORDER TO ENSURE PROMPT EVALUATION AND CORRECTION OF CONDITIONS ADVERSE TO QUALITY (CAQS), PROBLEM IDENTIFICATION REPORTS (PIRS) AND NUCLEAR EXPERIENCE REVIEW (NER) ITEMS AND IT IS NOT APPROPRIATE TO CONSIDER REMOVAL OF THE RESTRICTIONS APPLIED TO THE SEQUOYAH SITE BY ORDER EA 85-49. AREAS REQUIRING ADDITIONAL LICENSEE ACTION ARE: IMPROVE THE SPEED AND RELIABILITY OF OPERABILITY/SIGNIFICANCE DETERMINATIONS, AND ROOT CAUSE DETERMINATION. ENSURE THOSE PERSONNEL WHO MAKE OPERABILITY/SIGNIFICANCE DETERMINATIONS IN THE GENERIC CAQ, AND NUCLEAR EXPERIENCE REVIEW (NER) PROCESSES ARE ADEQUATELY TRAINED AND POSSESS THE CORRECT QUALIFICATIONS TO MAKE OPERABILITY/SIGNIFICANCE DETERMINATIONS. IMPROVE THE COMPLETENESS AND AUDITABILITY OF CAQ DOCUMENTATION REQUIRED FOR ADEQUATE MANAGEMENT REVIEWS PRIOR TO CLOSURE. ENSURE MANAGERIAL CAQR TRAINING REQUIREMENTS IMPOSED BY ORDER EA 85-49 ARE CURRENT. RESOLVE SPECIFIED TECHNICAL QUESTIONS UNIQUE TO CERTAIN INDIVIDUAL CAQRS. THE LICENSEE'S CORRECTIVE ACTIONS WILL BE REVIEWED IN A FOLLOWUP INSPECTION, 327,328/88-19.

INSPECTION FEBRUARY 12 - 26 (88-17): 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 EXTENDED CONTROL ROOM AND PLANT ACTIVITY COVERAGE BY NRC INSPECTORS AND MANAGERS. ONE VIOLATION WAS IDENTIFIED, 327,328/88-17-01; FAILURE TO FOLLOW PROCEDURE - THREE EXAMPLES. AN ADDITIONAL EXAMPLES OF PREVIOUS VIOLATION 327,328/87-78-01 WAS ALSO IDENTIFIED.

INSPECTION MARCH 3 (88-21): THIS SPECIAL, ANNOUNCED INSPECTION INVOLVED A REVIEW OF THE PREVIOUSLY IDENTIFIED VITAL AREA BARRIER ISSUES AND A FOLLOWUP TO THE LICENSEE'S INSPECTOR GENERAL'S OFFICE INVESTIGATION OF ALLEGED DRUG USE. NO VIOLATIONS WERE IDENTIFIED.

INSPECTION JANUARY 19-22 (88-23): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED INSPECTION ONSITE BY MEMBERS OF THE OFFICE OF SPECIAL PROJECTS STAFF IN THE AREA OF EVENT EVALUATION AND LICENSEE EVENT REPORT GENERATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED. FOUR RECOMMENDED ACTIONS 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

ENFORCEMENT SUMMARY

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 (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

ENFORCEMENT SUMMARY

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 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)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

ENVIRONMENTAL QUALIFICATION OF EQUIPMENT.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

MODE 5.

LAST IE SITE INSPECTION DATE: JANUARY 19-22, 1988 +

INSPECTION REPORT NO: 50-328/88-23 +

Report Period MAR 1988 REPORTS FROM LICENSEE

****
* SEQUOYAH 2 *
****

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-003	01/19/88	02/25/88	ICE BUILDUP IN THE FLOW PASSAGE OF THE ICE CONDENSER DUE TO SUBLIMATION WHICH COULD RESULT IN INCREASED CONT. PRESSURE
88-004	01/27/88	02/18/88	INADVERTENT START OF ALL EMERGENCY DIESEL GENERATORS DURING SURVEILLANCE TESTING DUE TO DAMAGED LOCKOUT RELAY
88-005	02/12/88	03/08/88	LOOSENING OF GLAND SEALS BOLTS ON SPEED INCREASER LUBE OIL PUMPS; POTENTIAL INOPERABILITY OF U-2 CENTERIFUGAL PUMPS
88-006	02/07/88	03/05/88	ESF MAIN STEAM LINE ISOLATION AND RX TRIP DUE TO MAINTENANCE ACT. AND INHERENT INSTR RESPONSE DURING STEAM PLANT HEATUP
88-007	02/10/88	02/08/88	MAIN STEAM ISOLATION OCCURRED (ESF ACTUATION) DUE TO AN INADEQUATE CALIBRATION PROCEDURE
88-008	02/09/88	03/08/88	FAILURE TO INITIATE PERFORMANCE OF A REQ'D SURV INSTRUCTION IN A TIMELY MANNER; TECH SPEC SURV INTERVAL BEING EXCEEDED
88-009	02/07/88	03/25/88	ESF MAIN STEAM LINE ISOLATION ACTUATION DURING MAINTENANCE ACTIVITIES DUE TO IMPROPER VERIFICATION OF ACTUATION LOGIC
88-010	03/09/88	03/25/88	CCP PLACED IN THE PULL-TO-LOCK POSITION WHILE THE SECOND CCP WAS INOPERABLE RESULTED IN AN INADVERT. ENTRY INTO TS 3.0.3

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1. Docket: 50-498 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 39.1
3. Utility Contact: C.A. AYALA (512) 972-8628
4. Licensed Thermal Power (MWt): 3817
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	39.1	39.1	39.1
13. Hours Reactor Critical	12.3	12.3	12.3
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	.6	.6	.6
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	3,439	3,439	3,439
18. Gross Elec Ener (MWH)	43	43	43
19. Net Elec Ener (MWH)	-1,371	-1,371	-1,371
20. Unit Service Factor		NOT IN	
21. Unit Avail Factor		COMMERCIAL	
22. Unit Cap Factor (MDC Net)		OPERATION	
23. Unit Cap Factor (DER Net)			
24. Unit Forced Outage Rate			
25. Forced Outage Hours	38.5	38.5	38.5

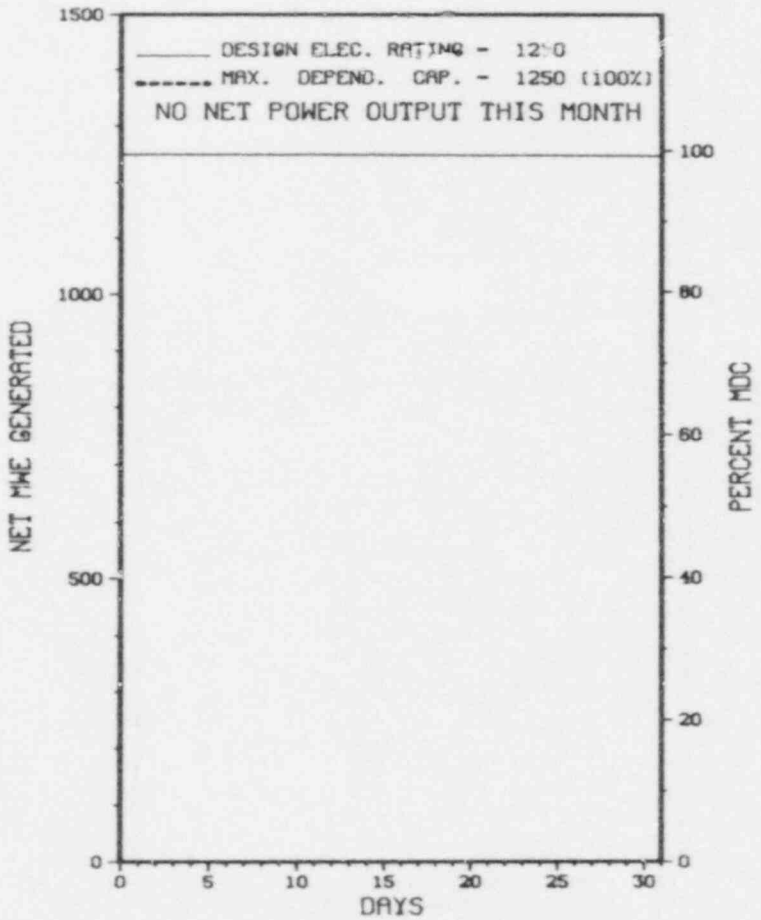
26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):
NONE

27. If Currently Shutdown Estimated Startup Date: 04/03/88

****
* SOUTH TEXAS 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SOUTH TEXAS 1



MARCH 1988

Report Pericd MAR 1988

U N I T S H U T D O W N S / R E D U C T I O N S

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	38.5	B	3	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.

SUMMARY

SOUTH TEXAS 1 GENERATED INITIAL ELECTRICITY ON MARCH 30,1988.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SOUTH TEXAS 1 *
****

FACILITY DATA

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

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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

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

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

1. Docket: 50-335 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (MWt): 2700

5. Nameplate Rating (Gross MWe): 1000 X 0.89 = 890

6. Design Electrical Rating (Net MWe): 830

7. Maximum Dependable Capacity (Gross MWe): 872

8. Maximum Dependable Capacity (Net MWe): 839

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	98,856.0
13. Hours Reactor Critical	723.1	2,163.1	74,714.9
14. Rx Reserve Shtdwn Hrs	.0	.0	205.3
15. Hrs Generator On-Line	717.0	2,157.0	73,127.5
16. Unit Reserve Shtdwn Hrs	.0	.0	39.3
17. Gross Therm Ener (MWH)	1,903,649	5,787,912	187,133,549
18. Gross Elec Ener (MWH)	640,430	1,949,430	61,473,015
19. Net Elec Ener (MWH)	607,535	1,851,795	58,043,384
20. Unit Service Factor	96.4	98.8	74.0
21. Unit Avail Factor	96.4	98.8	74.0
22. Unit Cap Factor (MDC Net)	97.3	101.1	70.0
23. Unit Cap Factor (DER Net)	98.4	102.2	70.7
24. Unit Forced Outage Rate	3.6	1.2	3.9
25. Forced Outage Hours	27.0	27.0	2,967.9

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

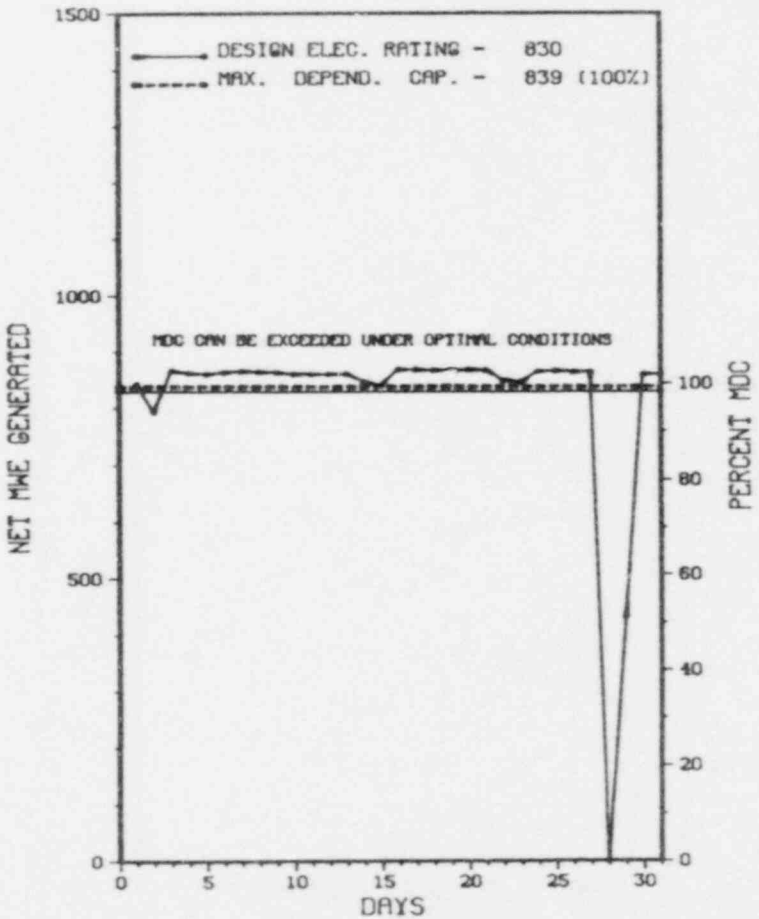
NONE

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

****
* ST LUCIE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

ST LUCIE 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
01	03/28/88	F	27.0	A	1		CH	VALVEX	MANUAL CONTROL OF THE FEEDWATER REGULATING VALVES WAS TAKEN WHEN CONTROL ROOM PERSONNEL NOTED INCREASING STEAM GENERATOR LEVEL ON A STEAM GENERATOR. THIS MANUAL CONTROL RESULTED IN A DECREASING LEVEL AND PERSONNEL WERE UNABLE TO RECOVER LEVEL PRIOR TO A REACTOR TRIP ON LOW STEAM GENERATOR LEVEL. THE PROBLEM WAS RESOLVED AND THE UNIT RETURNED TO FULL POWER OPERATION.

SUMMARY

ST. LUCIE 1 INCURRED 1 FORCED OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* ST LUCIE 1 *
****

FACILITY DATA

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

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3209 VIRGINIA AVENUE
FT. PIERCE, FLORIDA 33450

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 3 - FEBRUARY 6 (88-01): THIS INSPECTION INVOLVED ON SITE ACTIVITIES IN THE AREAS OF TECHNICAL SPECIFICATION COMPLIANCE, OPERATOR PERFORMANCE, OVERALL PLANT OPERATIONS, QUALITY ASSURANCE PRACTIVES, STATION AND CORPORATE MANAGEMENT PRACTICES, CORRECTIVE AND PREVENTIVE MAINTENANCE ACTIVITIES, SITE SECURITY PROCEDURES, RADIATION CONTROL ACTIVITIES, AND SURVEILLANCE ACTIVITIES. OF THE AREAS INSPECTION, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 7 - MARCH 5 (88-03): THIS INSPECTION INVOLVED ON SITE ACTIVITIES IN THE AREAS OF TECHNICAL SPECIFICATION COMPLIANCE, OPERATOR PERFORMANCE, OVERALL PLANT OPERATIONS, QUALITY ASSURANCE PRACTICES, STATION AND CORPORATE MANAGEMENT PRACTICES,, CORRECTIVE AND PREVENTIVE MAINTENANCE ACTIVITIES, SITE SECURITY PROCEDURES, RADIATION CONTROL ACTIVITIES AND SURVEILLANCE ACTIVITIES. OF THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 7-11 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF FIRE PROTECTION/ PREVENTION. 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:

NORMAL OPERATIONS.

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

INSPECTION REPORT NO: 50-335/88-05 +

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

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	02/05/88	03/07/88	INADVERTENT START OF 1C HIGH PRESSURE SAFETY INJECTION PUMP DUE TO ELECTRICAL TRANSIENT
88-002	02/10/88	03/11/88	TOTAL BYPASS LEAKAGE ON CONTAINMENT RAD MON ISOLATION VALVE EXCEEDED TECH SPEC LIMIT DUE TO STEAM CORROSION

1. Docket: 50-389 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (MWt): 2700

5. Nameplate Rating (Gross MWe): 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	744.0	2,184.0	40,753.0
13. Hours Reactor Critical	744.0	2,184.0	34,941.9
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,184.0	34,221.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,005,459	5,887,264	88,883,906
18. Gross Elec Ener (MWH)	675,480	1,985,020	29,683,680
19. Net Elec Ener (MWH)	641,508	1,885,687	28,053,475
20. Unit Service Factor	100.0	100.0	84.0
21. Unit Avail Factor	100.0	100.0	84.0
22. Unit Cap Factor (MDC Net)	102.8	102.9	82.0
23. Unit Cap Factor (DER Net)	103.9	104.0	82.9
24. Unit Forced Outage Rate	.0	.0	6.8
25. Forced Outage Hours	.0	.0	2,511.7

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

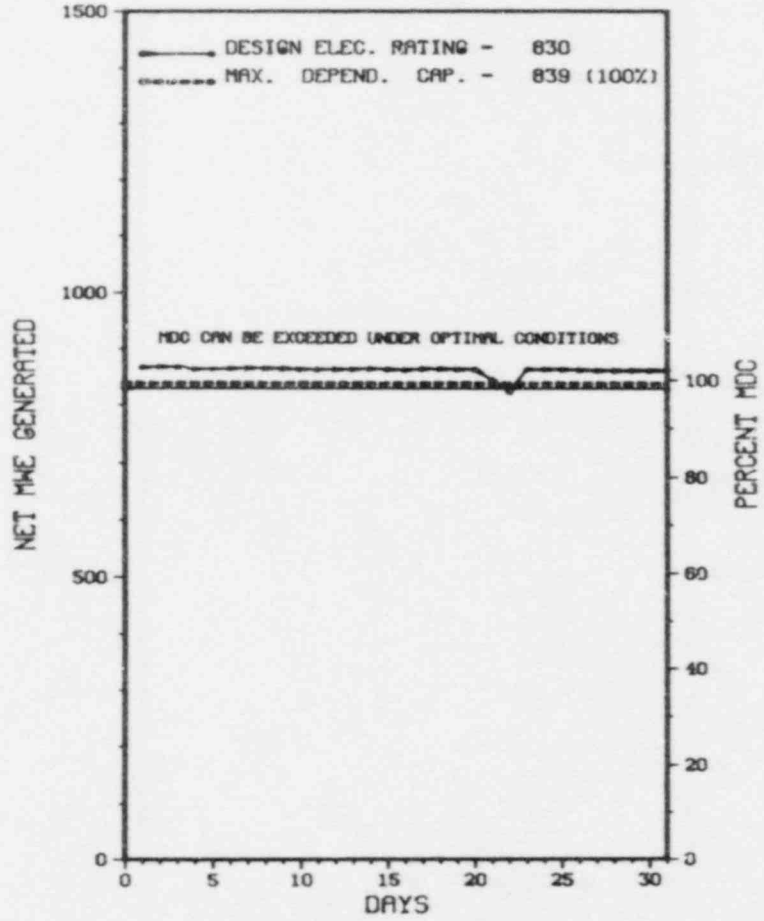
NONE

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

****
* ST LUCIE 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ST LUCIE 2



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* ST LUCIE 2 *
****

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

NONE

****
* SUMMARY *
****

ST. LUCIE 2 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* ST LUCIE 2 *
****

FACILITY DATA

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

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3209 VIRGINIA AVENUE
FT. PIERCE, FLORIDA 33450

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 3 - FEBRUARY 6 (88-01): THIS INSPECTION INVOLVED ON SITE ACTIVITIES IN THE AREAS OF TECHNICAL SPECIFICATION COMPLIANCE, OPERATOR PERFORMANCE, OVERALL PLANT OPERATIONS, QUALITY ASSURANCE PRACTIVES, STATION AND CORPORATE MANAGEMENT PRACTICES, CORRECTIVE AND PREVENTIVE MAINTENANCE ACTIVITIES, SITE SECURITY PROCEDURES, RADIATION CONTROL ACTIVITIES, AND SURVEILLANCE ACTIVITIES. OF THE AREAS INSPECTION, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 7 - MARCH 5 (88-03): THIS INSPECTION INVOLVED ON SITE ACTIVITIES IN THE AREAS OF TECHNICAL SPECIFICATION COMPLIANCE, OPERATOR PERFORMANCE, OVERALL PLANT OPERATIONS, QUALITY ASSURANCE PRACTICES, STATION AND CORPORATE MANAGEMENT PRACTICES,, CORRECTIVE AND PREVENTIVE MAINTENANCE ACTIVITIES, SITE SECURITY PROCEDURES, RADIATION CONTROL ACTIVITIES AND SURVEILLANCE ACTIVITIES. OF THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION MARCH 7-11 (88-05): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF FIRE PROTECTION/ PREVENTION. 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:

NORMAL OPERATIONS.

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

INSPECTION REPORT NO: 50-389/88-05 +

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

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	02/01/88	03/01/88	SAFETY INJECTION TANKS SIMULTANEOUSLY OUT OF SERVICE DUE TO UNRELATED VALVE RESEATING PROBLEMS
88-002	02/18/88	03/19/88	REACTOR CONTAINMENT BLDG POLAR POWER SUPPLY BREAKER FOUND IN ITS REQ TAGGED OPEN POSITION BUT NOT LOCKED; PERSONNEL ERROR

1. Docket: 50-395 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: J. W. HALTIWANGER (803) 345-5209

4. Licensed Thermal Power (MWt): 2775

5. Nameplate Rating (Gross MWe): 900

6. Design Electrical Rating (Net MWe): 900

7. Maximum Dependable Capacity (Gross MWe): 900

8. Maximum Dependable Capacity (Net MWe): 885

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	37,248.0
13. Hours Reactor Critical	744.0	2,149.1	28,818.0
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,140.9	28,269.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,063,020	5,907,481	74,691,161
18. Gross Elec Ener (MWH)	689,820	1,975,120	24,804,533
19. Net Elec Ener (MWH)	662,255	1,894,213	23,633,796
20. Unit Service Factor	100.0	98.0	75.9
21. Unit Avail Factor	100.0	98.0	75.9
22. Unit Cap Factor (MDC Net)	100.6	98.0	71.7
23. Unit Cap Factor (DER Net)	98.9	96.4	70.5
24. Unit Forced Outage Rate	.0	2.0	6.2
25. Forced Outage Hours	.0	43.1	1,866.2

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

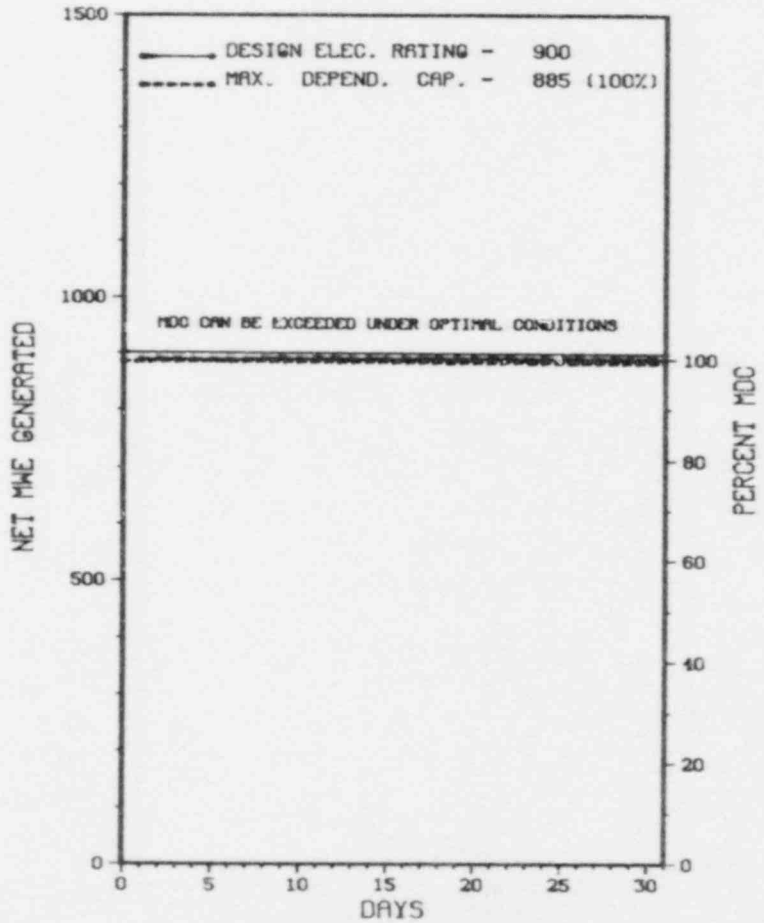
REFUELING OUTAGE-9/16/88, 85 DAY DURATION.

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

****
* SUMMER 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUMMER 1



MARCH 1988

Report Period MAR 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 ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SUMMER 1 *
****

FACILITY DATA

Report Period MAR 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

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 1-5 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF THE SEISMIC MONITORING PROGRAM AND THE FIRE PROTECTION/PREVENTION PROGRAM. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 1-29 (88-05): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED BY THE RESIDENT INSPECTORS ONSITE, IN THE AREAS OF MONTHLY SURVEILLANCE OBSERVATIONS, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, ENGINEERED SAFETY FEATURES SYSTEM WALKDOWN, RADIOLOGICAL PROTECTION, PHYSICAL SECURITY, AND ONSITE FOLLOWUP OF EVENTS AND SUBSEQUENT WRITTEN REPORTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 29 - MARCH 4 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF REVIEW OF POST-REFUELING STARTUP TESTS, AND REVIEW OF LOCAL LEAK RATE TESTING. ONE VIOLATION WAS IDENTIFIED: FAILURE TO PROPERLY IMPLEMENT PROCEDURES.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

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: FEBRUARY 29 - MARCH 4, 1988 +

INSPECTION REPORT NO: 50-395/88-07 +

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
88-001	02/04/88	03/01/88	THREE VIDEO CAMERAS: LOST VARIOUS SECURITY DOORS FAILED UNLOCKED DUE TO SYSTEM VOLTAGE
88-002	02/16/88	03/11/88	REACTOR TRIP DURING SURVEILLANCE TESTING WITH N-42 INOPERABLE
88-003	02/01/88	03/08/88	LEVEL INDICATION ERRORS CAUSED BY CONDENSATION IN SENSING LINES

1. Docket: 50-280 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: L. A. WARREN (804) 357-3184

4. Licensed Thermal Power (MWt): 2441

5. Nameplate Rating (Gross MWe): 942 X 0.9 = 848

6. Design Electrical Rating (Net MWe): 788

7. Maximum Dependable Capacity (Gross MWe): 820

8. Maximum Dependable Capacity (Net MWe,: 781

9. If Changes Occur Above Since Last Repor\. Give Reasons:

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	133,896.0
13. Hours Reactor Critical	695.5	2,119.0	86,858.6
14. Rx Reserve Shtdwn Hrs	.0	.0	3,774.5
15. Hrs Generator On-Line	688.8	2,104.8	85,075.6
16. Unit Reserve Shtdwn Hrs	.0	.0	3,736.2
17. Gross Therm Ener (MWH)	1,535,816	4,953,560	197,180,826
18. Gross Elec Ener (MWH)	516,735	1,674,430	64,049,603
19. Net Elec Ener (MWH)	490,151	1,592,556	60,744,718
20. Unit Service Factor	92.6	96.4	63.5
21. Unit Avail Factor	92.6	96.4	66.3
22. Unit Cap Factor (MDC Net)	84.4	93.4	58.1
23. Unit Cap Factor (DER Net)	83.6	92.5	57.6
24. Unit Forced Outage Rate	7.4	3.6	17.6
25. Forced Outage Hours	55.2	79.2	14,499.5

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

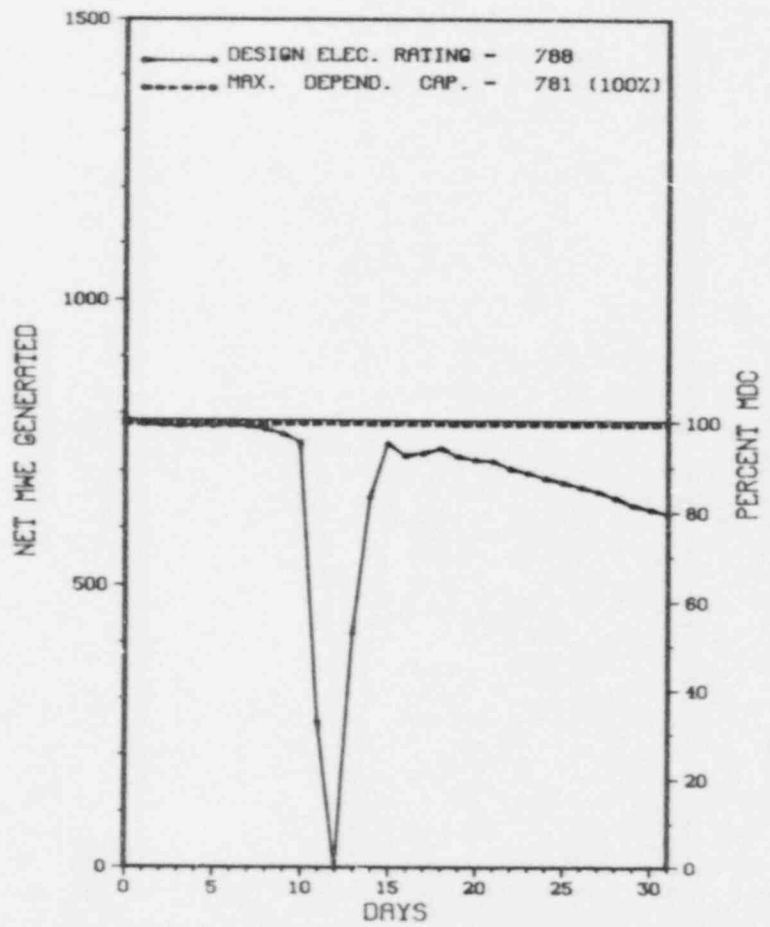
REFUELING - 4/8/88 - 62 DAY DURATION.

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

****
* SURRY 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SURRY 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

SURRY 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-04	03/10/88	F	55.2	A	1	88-008			PLANT WAS SHUTDOWN DUE TO AN INOPERABLE 1-SI-P-1B. PUMP MOTOR WAS REPLACED AND PUMP WAS RETURNED TO SERVICE.

SUMMARY

SURRY 1 INCURRED 1 POWER OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SURRY 1 *
****

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

FACILITY DESCRIPTION

LOCATION
STATE.....VIRGINIA

COUNTY.....SURRY

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...17 MI NW OF
NEWPORT NEWS, VA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...JULY 1, 1972

DATE ELEC ENER 1ST GENER...JULY 4, 1972

DATE COMMERCIAL OPERATE....DECEMBER 22, 1972

CONDENSER COOLING METHOD...ONCE THRU

CONDENSER COOLING WATER....JAMES RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....VIRGINIA POWER

CORPORATE ADDRESS.....P.O. BOX 26666
RICHMOND, VIRGINIA 23261

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

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....D. BURKE

LICENSING PROJ MANAGER.....C. PATEL
DOCKET NUMBER.....50-280

LICENSE & DATE ISSUANCE....DPR-32, MAY 25, 1972

PUBLIC DOCUMENT ROOM.....SWEM LIBRARY
COLLEGE OF WILLIAM AND MARY
WILLIAMSBURG, VIRGINIA 23185

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

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 1-5 (88-02): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED IN ACCORDANCE WITH TI 2515/83, "BALANCE OF PLANT TRIAL INSPECTION INSPECTION PROGRAM (FEEDWATER SYSTEM)" TO ASSESS THE LICENSEE'S PRACTICES CONCERNING BALANCE OF PLANT IN PROGRAMMATIC AREAS OF OPERATIONS AND TRAINING, MAINTENANCE, DESIGN CONTROL AND MODIFICATIONS, AND MANAGEMENT SUPPORT AND QUALITY ASSURANCE. OUTSTANDING OPEN ITEMS WERE ALSO INSPECTED. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 1-27 (88-04): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF PLANT OPERATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, FOLLOWUP ON INSPECTOR IDENTIFIED ITEMS, AND LICENSEE EVENT REPORT REVIEW. ONE VIOLATION WAS IDENTIFIED FOR FAILURE TO MAINTAIN AND VERIFY OPERABILITY OF HEAT TRACE CIRCUITRY FOR BORIC ACID FLOW PATH AS REQUIRED BY THE TECHNICAL SPECIFICATIONS. THIS VIOLATION IS BEING CONSIDERED FOR ESCALATED ENFORCEMENT ACTION AND WILL BE FORWARDED UNDER SEPARATE COVER.

INSPECTION FEBRUARY 16-19 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF PLANT CHEMISTRY. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 22-26 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOW-UP ON PREVIOUSLY IDENTIFIED INSPECTIOIN ITEMS. ONE VIOLATION WAS IDENTIFIED: USE OF FIRE PROTECTION EQUIPMENT FOR NON-FIRE PROTECTION ACTIVITIES.

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: FEBRUARY 22-26, 1988 +

INSPECTION REPORT NO: 50-280/88-07 +

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/31/88	03/01/88	CONTAINMENT ISOLATION VALVE NOT PROPERLY LOCKED UNDER ADMINISTRATIVE CONTROL DUE TO HUMAN ERROR
88-002	02/06/88	02/29/88	INOPERABLE INDIVIDUAL ROD POSITION INDICATORS DUE TO INSTRUMENT DRIFT
88-003	02/16/88	03/17/88	REACTOR TRIP DUE TO PERSONNEL FAILING TO FOLLOW PROCEDURE
88-004	02/16/88	03/04/88	IODINE SPIKE DUE TO DEFECTIVE FUEL ELEMENT
88-005	02/19/88	03/18/88	INOPERABLE HEAT TRACING DUE TO INADEQUATE PROCEDURES
88-006	02/19/88	03/09/88	INDIVIDUAL ROD POSITION INDICATORS INOPERABLE DUE TO INSTRUMENT DRIFT
88-007	02/24/88	03/17/88	CONTROL/RELAY ROOM CHILLERS INOPERABLE DUE TO INADEQUATE SERVICE WATER FLOW

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1. Docket: 50-281 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: L. A. WARREN (804) 357-3184

4. Licensed Thermal Power (MWt): 2441

5. Nameplate Rating (Gross MWe): 942 X 0.9 = 848

6. Design Electrical Rating (Net MWe): 788

7. Maximum Dependable Capacity (Gross MWe): 820

8. Maximum Dependable Capacity (Net MWe): 781

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	130,776.0
13. Hours Reactor Critical	640.4	2,080.4	86,749.1
14. Rx Reserve Shtdwn Hrs	.0	.0	23.8
15. Hrs Generator On-Line	640.4	2,080.4	85,378.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,552,907	5,037,815	200,208,164
18. Gross Elec Ener (MWH)	515,810	1,679,650	65,047,474
19. Net Elec Ener (MWH)	490,865	1,598,681	61,677,462
20. Unit Service Factor	86.1	95.3	65.3
21. Unit Avail Factor	86.1	95.3	65.3
22. Unit Cap Factor (MDC Net)	84.5	93.7	60.4
23. Unit Cap Factor (DER Net)	83.7	92.9	59.9
24. Unit Forced Outage Rate	13.9	4.7	13.8
25. Forced Outage Hours	103.6	103.6	10,962.7

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

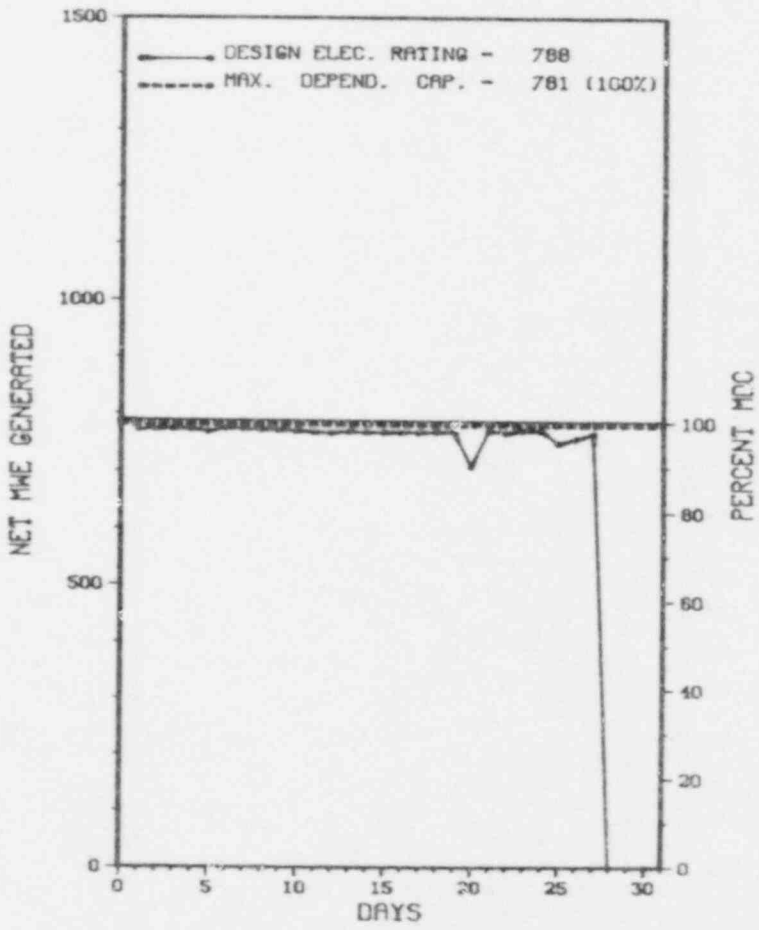
REFUELING - 9/3/88 - 48 DAY DURATION.

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

SURRY 2

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SURRY 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

SURRY 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-03	03/20/88	S	0.0	B	5				UNIT WAS REDUCED TO 73% POWER, 600 MW'S TO ALLOW TESTING OF TURBINE VALVES (PT-29.1).
88-04	03/25/88	S	0.0	B	5				UNIT WAS REDUCED TO 72% POWER, 600 MW'S TO ALLOW TESTING OF TURBINE VALVES (PT-29.1).
88-05	03/27/88	F	103.6	A	2	88-004			REACTOR WAS MANUALLY TRIPPED DUE TO A LOSS OF VITAL BUS 2-III INVERTER WHICH REQUIRES SECURING "A" RCP. VITAL BUS 2-III INVERTER WAS REPAIRED AND WILL BE REPLACED WITH A NEW UPS SYSTEM DURING THE NEXT REFUELING OUTAGE.

SUMMARY

SURRY 2 INCURRED 1 OUTAGE AND 2 POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SURRY 2 *
****

FACILITY DATA

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
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WILLIAMSBURG, VIRGINIA 23185

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION FEBRUARY 1-5 (88-02): THIS SPECIAL, ANNOUNCED INSPECTION WAS CONDUCTED IN ACCORDANCE WITH TI 2515/83, "BALANCE OF PLANT TRIAL INSPECTION INSPECTION PROGRAM (FEEDWATER SYSTEM)" TO ASSESS THE LICENSEE'S PRACTICES CONCERNING BALANCE OF PLANT IN PROGRAMMATIC AREAS OF OPERATIONS AND TRAINING, MAINTENANCE, DESIGN CONTROL AND MODIFICATIONS, AND MANAGEMENT SUPPORT AND QUALITY ASSURANCE. OUTSTANDING OPEN ITEMS WERE ALSO INSPECTED. IN THE AREAS INSPECTED, VIOLATIONS OR DEVIATIONS WERE NOT IDENTIFIED.

INSPECTION FEBRUARY 1-27 (88-04): THIS ROUTINE INSPECTION WAS CONDUCTED IN THE AREAS OF PLANT OPERATIONS, PLANT MAINTENANCE, PLANT SURVEILLANCE, FOLLOWUP ON INSPECTOR IDENTIFIED ITEMS, AND LICENSEE EVENT REPORT REVIEW. ONE VIOLATION WAS IDENTIFIED FOR FAILURE TO MAINTAIN AND VERIFY OPERABILITY OF HEAT TRACE CIRCUITRY FOR BORIC ACID FLOW PATH AS REQUIRED BY THE TECHNICAL SPECIFICATIONS. THIS VIOLATION IS BEING CONSIDERED FOR ESCALATED ENFORCEMENT ACTION AND WILL BE FORWARDED UNDER SEPARATE COVER.

INSPECTION FEBRUARY 16-19 (88-06): THIS ROUTINE, UNANOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF PLANT CHEMISTRY. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 22-26 (88-07): THIS ROUTINE, UNANNOUNCED INSPECTION WAS IN THE AREAS OF FIRE PROTECTION/PREVENTION AND FOLLOW-UP ON PREVIOUSLY IDENTIFIED INSPECTIOIN ITEMS. ONE VIOLATION WAS IDENTIFIED: USE OF FIRE PROTECTION EQUIPMENT FOR NON-FIRE PROTECTION ACTIVITIES.

****
* SURRY 2 *
****

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: FEBRUARY 22-26, 1988 +

INSPECTION REPORT NO: 50-281/88-07 +

REPORTS FROM LICENSEE

SURRY 2

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/27/88	02/26/88	IMPROPER ADMINISTRATIVE CONTROL OF CONTAINMENT ISOLATION VALVES DUE TO PERSONNEL ERROR
88-002	02/02/88	03/03/88	INOPERABLE CONTAINMENT ISOLATION VALVES DUE TO EXCESSIVE LEAKAGE
88-003	02/20/88	03/04/88	INDIVIDUAL ROD POSITION INDICATORS INOPERABLE DUE TO INSTRUMENT DRIFT
88-005	03/05/88	03/30/88	INOPERABLE CONTROL RODS DUE TO FAILED PHASE CONTROL CARD

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1. Docket: 50-387 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	42,217.0
13. Hours Reactor Critical	469.0	1,909.0	30,563.0
14. Rx Reserve Shtdwn Hrs	.0	.0	773.2
15. Hrs Generator On-Line	425.4	1,865.4	29,814.2
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,284,559	5,898,026	91,944,451
18. Gross Elec Ener (MWH)	422,628	1,949,392	29,959,991
19. Net Elec Ener (MWH)	407,597	1,879,159	28,726,555
20. Unit Service Factor	57.2	85.4	70.6
21. Unit Avail Factor	57.2	85.4	70.6
22. Unit Cap Factor (MDC Net)	53.1	83.4	65.9
23. Unit Cap Factor (DER Net)	51.4	80.8	63.9
24. Unit Forced Outage Rate	25.9	7.4	10.7
25. Forced Outage Hours	149.0	149.0	3,565.6

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

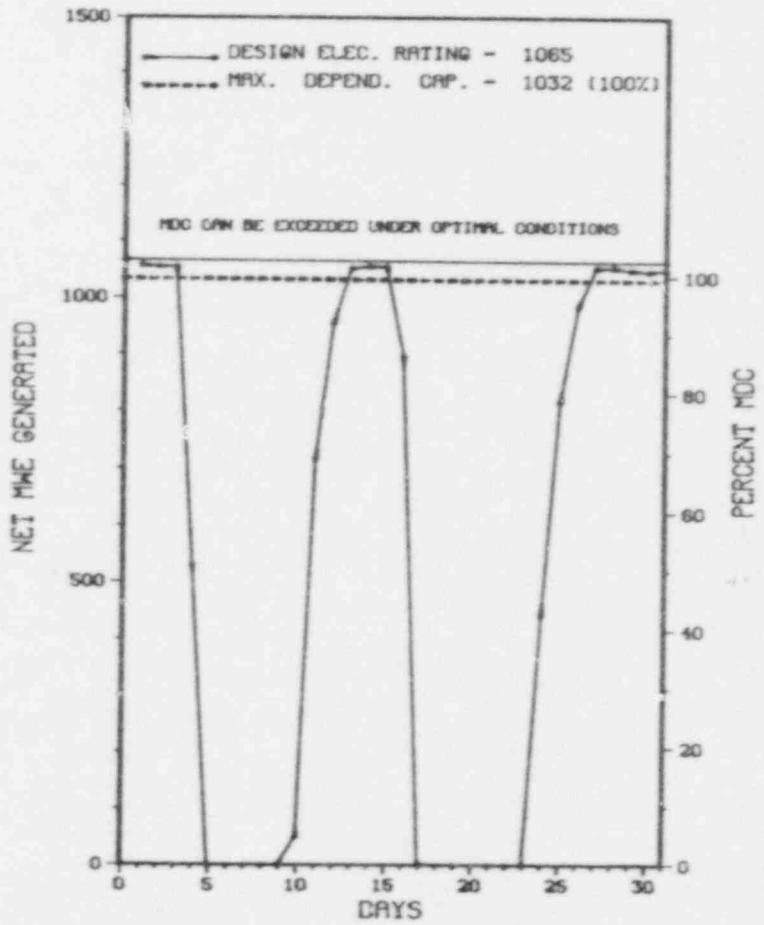
NONE

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

****
* SUSQUEHANNA 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

SUSQUEHANNA 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	03/04/88	F	149.0	G	3	88-006-00	JC	ZZZZZZ	ON MARCH 4, 1988, AN OPERATOR BUMPED AGAINST THE SPAN PROTECTION AUXILIARY RELAY IN THE 230 KV SWITCHYARD. THIS CAUSED A GENERATOR LOAD REJECT AND A SUBSEQUENT REACTOR SCRAM. NO EMERGENCY CORE COOLING SYSTEMS ACTUATED AND NONE WERE REQUIRED. NO OPERATOR ACTIONS WERE REQUIRED TO PLACE THE UNIT IN A STABLE CONDITION. THE SUBJECT RELAY, WHICH PROTRUDED ABOUT SIX INCHES OUT OF THE FRONT OF THE RELAY PANEL, WAS REPLACED WITH A FLUSH MOUNTED RELAY. IN ADDITION, PROTECTIVE BARRIERS HAVE BEEN INSTALLED ABOVE AND BELOW THE SUBJECT RELAY TO PROTECT AGAINST BUMPING. THE UNIT RETURNED TO SERVICE ON MARCH 10, 1988, AT 1705 HOURS.
3	03/17/88	S	169.6	B	1		AD	SEAL	ON MARCH 16, 1988, AT APPROXIMATELY 1900 HOURS, OPERATIONS PERSONNEL BEGAN REDUCING REACTOR POWER IN PREPARATION FOR A PLANNED MAINTENANCE OUTAGE. PLANT OPERATORS MANUALLY INSERTED THE CONTROL RODS AND AT 0025 HOURS, ON MARCH 17, 1988, THEY REMOVED THE TURBINE/ GENERATOR FROM SERVICE. APPROXIMATELY ONE HOUR LATER THE REACTOR MODE SWITCH WAS PLACED IN THE "START-UP" POSITION. THE SHUTDOWN WAS COMPLETED AT 0425 HOURS ON MARCH 17, 1988. THE MAJOR WORK ITEM FOR THE OUTAGE WAS THE REPAIR OF A LEAKING REACTOR RECIRCULATION PUMP SEAL. THE UNIT WAS RETURNED TO SERVICE ON MARCH 24, 1988, AT 0254 HOURS.

SUMMARY

SUSQUEHANNA 1 INCURRED 2 POWER OUTAGES IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* SUSQUEHANNA 1 *
****

FACILITY DATA

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

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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.

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* 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.

REPORTS FROM LICENSEE

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: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: J. A. HIRT (717) 542-3917
4. Licensed Thermal Power (MWt): 3293
5. Nameplate Rating (Gross MWe): 1152
6. Design Electrical Rating (Net MWe): 1065
7. Maximum Dependable Capacity (Gross MWe): 1068
8. Maximum Dependable Capacity (Net MWe): 1032
9. If Changes Occur Above Since Last Report, Give Reasons:

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	27,456.0
13. Hours Reactor Critical	120.0	1,560.0	23,111.8
14. Rx Reserve Shtdwn Hrs	.0	.0	693.9
15. Hrs Generator On-Line	96.5	1,536.5	22,697.4
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	186,551	4,798,980	71,424,698
18. Gross Elec Ener (MWH)	57,640	1,572,662	23,379,424
19. Net Elec Ener (MWH)	55,176	1,517,894	22,518,858
20. Unit Service Factor	13.0	70.4	82.7
21. Unit Avail Factor	13.0	70.4	82.7
22. Unit Cap Factor (MDC Net)	7.2	67.3	79.5
23. Unit Cap Factor (DER Net)	7.0	65.3	77.0
24. Unit Forced Outage Rate	.0	.0	8.6
25. Forced Outage Hours	.0	.0	2,149.0

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

NONE

27. If Currently Shutdown Estimated Startup Date: 05/21/88

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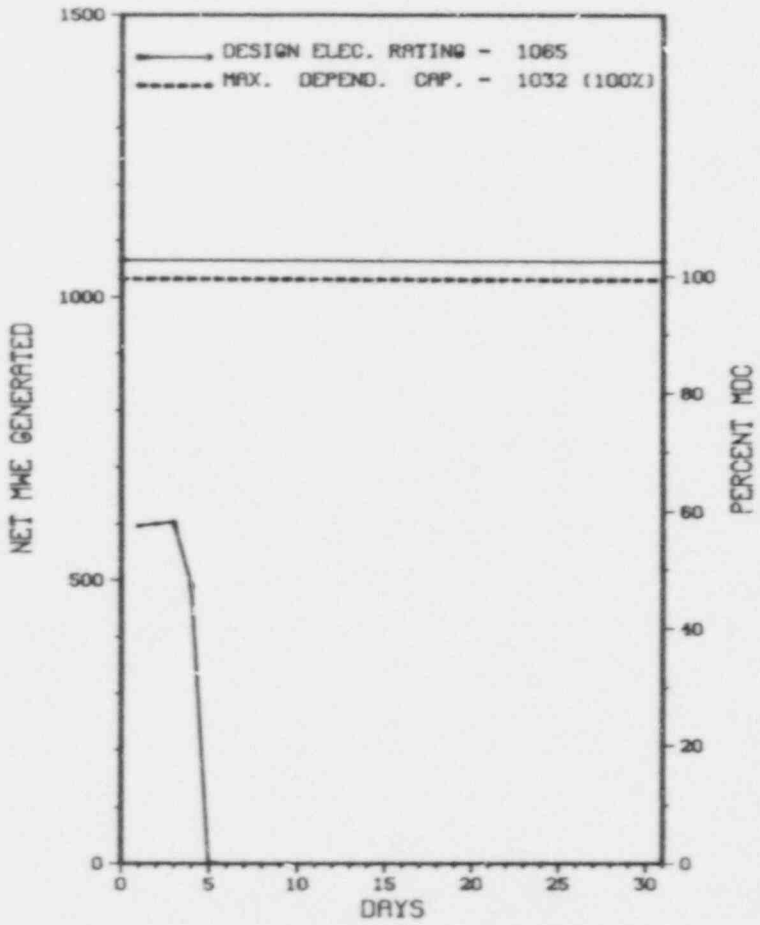
* SUSQUEHANNA 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

SUSQUEHANNA 2



MARCH 1988

Report Period MAR 1988 U N I T S H U T D O W N S / R E D U C T I O N S

SUSQUEHANNA 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/05/88	S	647.5	C	1		ZZZ	ZZZZZZ	ON MARCH 5, 1988, AT 0208 HOURS, OPERATIONS PERSONNEL PLACED THE REACTOR MODE SWITCH IN THE "SHUTDOWN" POSITION TO COMMENCE THE UNIT'S SECOND REFUELING OUTAGE. THE OUTAGE IS SCHEDULED TO LAST 77 DAYS.

SUMMARY

SUSQUEHANNA 2 COMMENCED SCHEDULED REFUELING OUTAGE IN MARCH.

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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* SUSQUEHANNA 2 *
****

FACILITY DATA

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.

OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-289 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
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): 829
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	744.0	2,184.0	119,041.0
13. Hours Reactor Critical	744.0	2,122.4	48,642.8
14. Rx Reserve Shtdwn Hrs	.0	61.6	1,947.8
15. Hrs Generator On-Line	744.0	2,120.4	47,720.2
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,881,173	5,341,752	115,829,452
18. Gross Elec Ener (MWH)	647,679	1,842,141	38,710,362
19. Net Elec Ener (MWH)	612,425	1,739,127	36,243,410
20. Unit Service Factor	100.0	97.1	40.1
21. Unit Avail Factor	100.0	97.1	40.1
22. Unit Cap Factor (MDC Net)	106.1	102.6	39.0*
23. Unit Cap Factor (DER Net)	100.5	97.2	37.2
24. Unit Forced Outage Rate	.0	2.9	55.5
25. Forced Outage Hours	.0	63.6	59,376.5

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

REFUELING - JUNE 17, 1988 - 63 DAY DURATION.

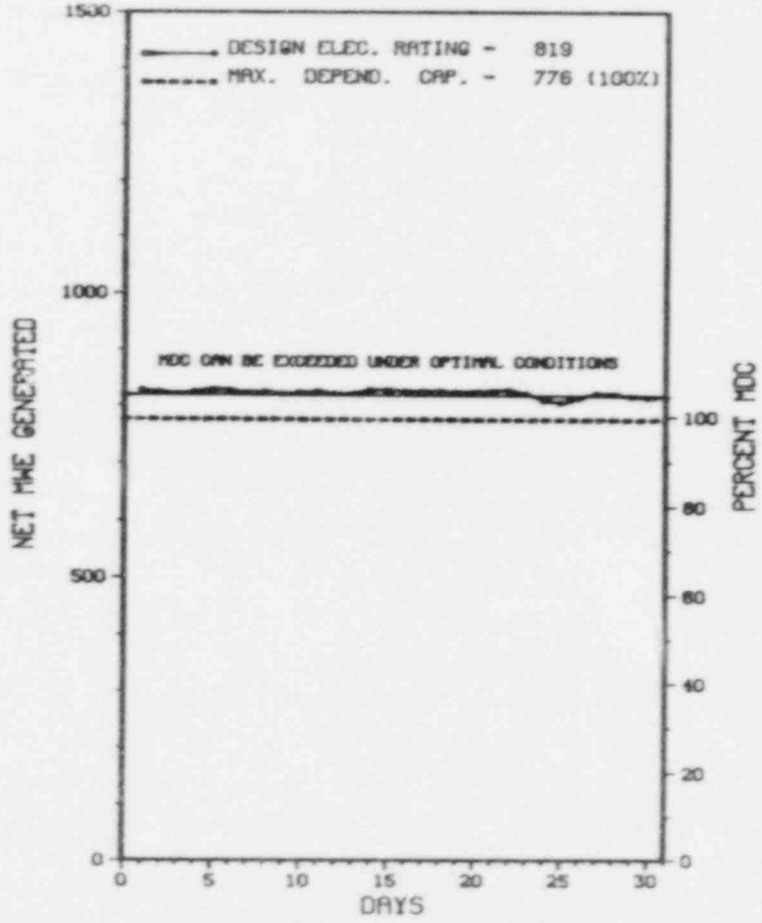
27. If Currently Shutdown Estimated Startup Date: N/A

* Item calculated with a Weighted Average

****
* THREE MILE ISLAND 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

THREE MILE ISLAND 1



MARCH 1988

Report Period MAR 1988

U N I T S H U T D O W N S / R E D U C T I O N S

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 1 OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* THREE MILE ISLAND 1 *
****

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

FACILITY DESCRIPTION

LOCATION
STATE.....PENNSYLVANIA

COUNTY.....DAUPHIN

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...10 MI SE OF
HARRISBURG, PA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...JUNE 5, 1974

DATE ELEC ENER 1ST GENER..JUNE 19, 1974

DATE COMMERCIAL OPERATE....SEPTEMBER 2, 1974

CONDENSER COOLING METHOD... COOLING TOWERS

CONDENSER COOLING WATER....SUSQUEHANNA RIVER

ELECTRIC RELIABILITY
COUNCIL.....MID-ATLANTIC
AREA COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GPU NUCLEAR CORP.

CORPORATE ADDRESS.....P.O. BOX 480
MIDDLETOWN, PENNSYLVANIA 17057

CONTRACTOR
ARCHITECT/ENGINEER.....GILBERT ASSOCIATES

NUC STEAM SYS SUPPLIER...BABCOCK & WILCOX

CONSTRUCTOR.....UNITED ENG. & CONSTRUCTORS

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....R. CONTE

LICENSING PROJ MANAGER....R. HERNAN
DOCKET NUMBER.....50-289

LICENSE & DATE ISSUANCE....DPR-50, APRIL 19, 1974

PUBLIC DOCUMENT ROOM.....GOVERNMENT PUBLICATIONS SECTION
STATE LIBRARY OF PENNSYLVANIA
FORUM BUILDING
COMMONWEALTH AND WALNUT STREET
HARRISBURG, PENNSYLVANIA 17105

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

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

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.

REPORTS FROM LICENSEE

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

1. Docket: 50-344 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: F. J. UHMER (503) 556-3713 X495

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1280 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	744.0	2,184.0	101,520.0
13. Hours Reactor Critical	744.0	2,057.3	64,402.3
14. Rx Reserve Shtdwn Hrs	.0	.0	3,875.4
15. Hrs Generator On-Line	744.0	2,054.9	62,726.1
16. Unit Reserve Shtdwn Hrs	.0	.0	3,237.0
17. Gross Therm Ener (MWH)	2,535,287	6,986,367	200,331,731
18. Gross Elec Ener (MWH)	857,916	2,367,608	65,255,679
19. Net Elec Ener (MWH)	821,728	2,261,345	61,760,622
20. Unit Service Factor	100.0	94.1	61.8
21. Unit Avail Factor	100.0	94.1	65.0
22. Unit Cap Factor (MDC Net)	100.9	94.6	55.6
23. Unit Cap Factor (DER Net)	97.7	91.6	53.8
24. Unit Forced Outage Rate	.0	5.9	13.7
25. Forced Outage Hours	.0	129.1	9,932.6

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

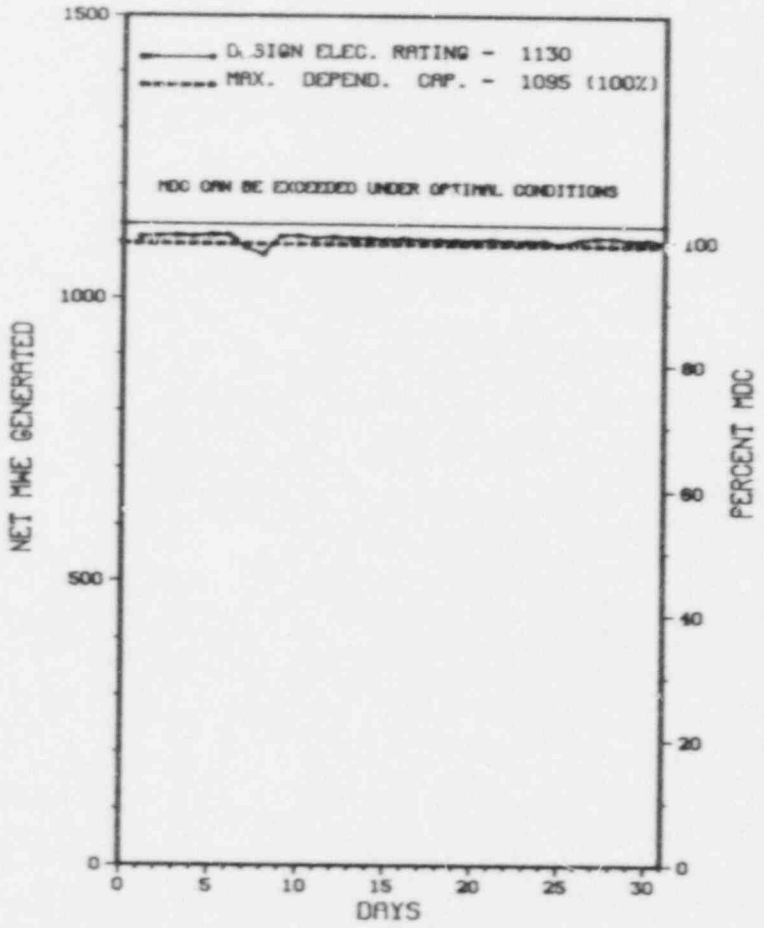
REFUELING-APRIL 13, 1988, 49 DAY DURATION.

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

****
* TROJAN *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TROJAN



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* TROJAN *
****

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

****
* SUMMARY *
****

TROJAN OPERATED ROUTINELY IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* TROJAN *
****

FACILITY DATA

Report Period MAR 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 NOVEMBER 1, 1986 - NOVEMBER 30, 1987 (REPORT NO. 50-344/87-41) YEARLY SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE; REPORT SENT MARCH 30, 1988.

+ INSPECTION ON FEBRUARY 8 - MARCH 4, 1988 (REPORT NO. 50-344/88-04) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, ORGANIZATION AND MANAGEMENT, TRAINING AND QUALIFICATIONS, SOLID WASTES, TRANSPORTATION, AND FACILITY TOURS (SURVEYS AN MONITORING). DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: IN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED: TECHNICAL SPECIFICATION 6.11, FAILURE TO FOLLOW PROCEDURES.

+ INSPECTION ON FEBRUARY 19 - MARCH 11, 1988 (REPORT NO. 50-344/88-05) AREAS INSPECTED: SECURITY PLAN AND IMPLEMENTING PROCEDURES; RECORDS AND REPORTS; PHYSICAL BARRIERS; LIGHTING; ACCESS CONTROL; SAFEGUARDS CONTINGENCY PLAN IMPLEMENTATION REVIEW; AND FOLLOW-UP. 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. 50-344/88-08) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 28 - APRIL 14, 1988 (REPORT NO. 50-344/88-09) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

INSPECTION SUMMARY

+ INSPECTION ON MARCH 14-18, 1988 (REPORT NO. 50-344/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 29 - APRIL 5, 1988 (REPORT NO. 50-344/88-11) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 25, 1988 (REPORT NO. 50-344/88-12) 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:

POWER LEVEL 100%.

LAST IE SITE INSPECTION DATE: 03/28 - 04/14/88+

INSPECTION REPORT NO: 50-344/88-09+

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01-LO	01-08-88	02-05-88	REACTOR TRIP DUE TO FAILED OVERPOWER DELTA TEMPERATURE.
88-02-LO	02-03-88	03-04-88	CONTAINMENT VENTILATION ISOLATION ON HIGH CONTAINMENT-RADIOACTIVITY SIGNALS

1. Docket: 50-250 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (MWt): 2200

5. Nameplate Rating (Gross MWe): 894 X 0.85 = 760

6. Design Electrical Rating (Net MWe): 693

7. Maximum Dependable Capacity (Gross MWe): 700

8. Maximum Dependable Capacity (Net MWe): 666

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	134,313.6
13. Hours Reactor Critical	483.5	995.4	90,690.1
14. Rx Reserve Shtdwn Hrs	.0	.0	844.3
15. Hrs Generator On-Line	440.9	910.0	87,705.2
16. Unit Reserve Shtdwn Hrs	.0	.0	121.8
17. Gross Therm Ener (MWH)	888,882	1,777,923	181,582,188
18. Gross Elec Ener (MWH)	292,245	572,930	58,170,931
19. Net Elec Ener (MWH)	271,711	526,223	55,005,009
20. Unit Service Factor	59.3	41.7	65.3
21. Unit Avail Factor	59.3	41.7	65.4
22. Unit Cap Factor (MDC Net)	54.8	36.2	62.9*
23. Unit Cap Factor (DER Net)	52.7	34.8	59.1
24. Unit Forced Outage Rate	40.7	58.0	11.2
25. Forced Outage Hours	303.1	1,258.1	10,505.4

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

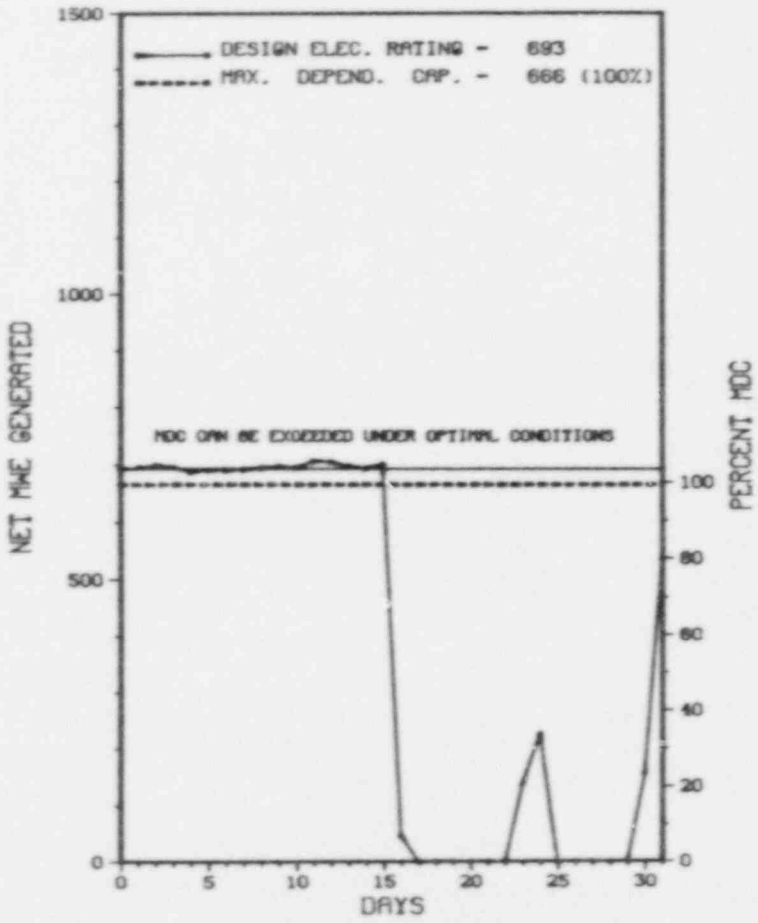
NONE

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

****
* TURKEY POINT 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TURKEY POINT 3



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

TURKEY POINT 3

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
03	03/16/88	F	169.5	A	1		HB	HTEXCH	FOLLOWING AN INITIAL POWER REDUCTION TO INVESTIGATE EXCESSIVE NOISE IN THE 3D MOISTURE SEPARATOR REHEATER (MSR), THE UNIT WAS SHUTDOWN, REPAIRS WERE IMPLEMENTED ON THE MSR AND THE UNIT BEGAN RETURN TO POWER WHERE A HOLD WAS EXPERIENCED TO ADJUST NUCLEAR INSTRUMENTATION.
04	03/24/88	F	133.6	A	1		HC	HTEXCH	WHILE RETURNING TO POWER THE UNIT WAS SHUTDOWN FROM APPROXIMATELY 30% POWER DUE TO HIGH SECONDARY CONDENSATE CONDUCTIVITY CAUSED BY A CONDENSER TUBE LEAK. THE LEAK WAS REPAIRED AND THE UNIT BEGAN TO RETURN TO POWER WHERE SEVERAL HOLDS WERE EXPERIENCED FOR SECONDARY CHEMISTRY.

SUMMARY

TURKEY POINT 3 INCURRED 2 OUTAGES IN MARCH FOR REASONS STATED ABOVE.

Type
F-Forced
S-Sched

Reason
A-Equip Failure
B-Maint or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Admin
G-Oper Error
H-Other

Method
1-Manual
2-Manual Scram
3-Auto Scram
4-Continued
5-Reduced Load
9-Other

System & Component
Exhibit F & H
Instructions for Preparation of Data Entry Sheet
Licensee Event Report (LER) File (NUREG-0161)

****
* TURKEY POINT 3 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....FLORIDA
COUNTY.....DADE
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

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FLORIDA INTERNATIONAL UNIVERSITY
MIAMI, FLORIDA 33199

INSPECTION STATUS

INSPECTION SUMMARY

* INSPECTION DECEMBER 28 - JANUARY 8 (87-54): 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. TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 22-26 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSEE ACTIONS ON PREVIOUS ENFORCEMENT MATTERS (92701B) (92702B), HOUSEKEEPING (54834B), MATERIAL IDENTIFICATION AND CONTROL (42902I3) MATERIAL CONTROL (42940B), WELDING (55050), MAINTENANCE NONDESTRUCTIVE (NDR) ACTIVITIES, NRC BULLETIN 87-01, AND INFORMATION NOTICE 87-36. IN THE AREAS INSPECTED, VIOLATIONS WERE NOT IDENTIFIED.

INSPECTION MARCH 7-11 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF PLANT CHEMISTRY AND CORROSION. NO VIOLATIONS OR DEVIATIONS WERE 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

ENFORCEMENT SUMMARY

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: MARCH 7-11, 1988 +

INSPECTION REPORT NO: 50-250/88-06 +

REPORTS FROM LICENSEE

TURKEY POINT 3

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-002	01/15/88	02/22/88	REACTOR COOLANT SYSEM PRESSURE DECREASE DUE TO MALFUNCTIONING PRESSURIZER SPRAY VALVE CAUSES PARTIAL ACCUMULATOR DISCHARGE

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1. Docket: 50-251 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: N. W. GRANT (305) 694-4432

4. Licensed Thermal Power (MWt): 2200

5. Nameplate Rating (Gross MWe): 894 X 0.85 = 760

6. Design Electrical Rating (Net MWe): 693

7. Maximum Dependable Capacity (Gross MWe): 709

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	744.0	2,184.0	128,041.0
13. Hours Reactor Critical	744.0	1,780.3	86,967.0
14. Rx Reserve Shtdwn Hrs	.0	.0	166.6
15. Hrs Generator On-Line	744.0	1,770.5	83,983.9
16. Unit Reserve Shtdwn Hrs	.0	.0	31.2
17. Gross Therm Ener (MWH)	1,557,447	3,765,807	177,230,430
18. Gross Elec Ener (MWH)	513,135	1,243,310	56,543,134
19. Net Elec Ener (MWH)	489,459	1,181,998	53,503,829
20. Unit Service Factor	100.0	81.1	65.6
21. Unit Avail Factor	100.0	81.1	65.6
22. Unit Cap Factor (MDC Net)	98.8	81.3	64.1*
23. Unit Cap Factor (DER Net)	94.9	78.1	60.3
24. Unit Forced Outage Rate	.0	18.9	11.0
25. Forced Outage Hours	.0	412.3	9,993.2

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

NONE

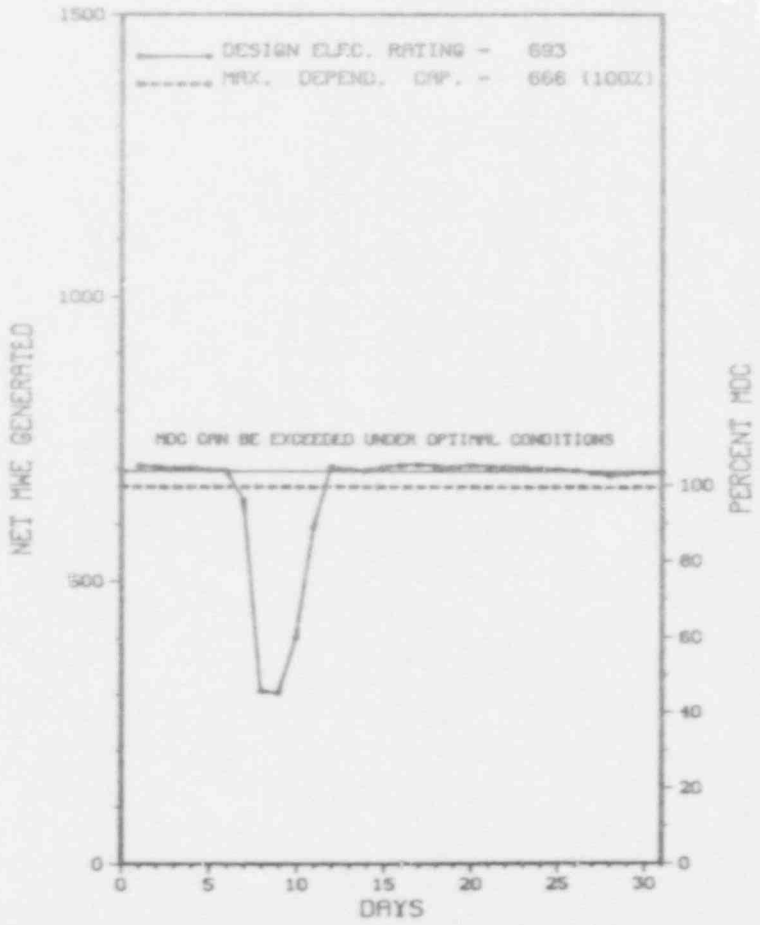
27. If Currently Shutdown Estimated Startup Date: N/A

* Item calculated with a Weighted Average

****
* TURKEY POINT 4 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

TURKEY POINT 4



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* TURKEY POINT 4 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
06	03/07/88	F	0.0	A	5		HH	PIPEXX	UNIT NO.4 REDUCED POWER TO REPAIR A LEAK IN THE 4A STEAM GENERATOR FEEDWATER PUMP SUCTION LINE. THE UNIT WAS THEN RETURNED TO FULL POWER OPERATIONS.

****
* SUMMARY *
****

TURKEY POINT 4 INCURRED 1 POWER REDUCTION IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* TURKEY POINT 4 *
****

FACILITY DATA

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 DECEMBER 28 - JANUARY 18 (87-54): 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. TWO VIOLATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 22-26 (88-04): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSEE ACTIONS ON PREVIOUS ENFORCEMENT MATTERS (92701B) (92702B), HOUSEKEEPING (54834B), MATERIAL IDENTIFICATION AND CONTROL (4290213) MATERIAL CONTROL (42940B), WELDING (55050), MAINTENANCE NONDESTRUCTIVE (NDR) ACTIVITIES, NRC BULLETIN 87-01, AND INFORMATION NOTICE 87-36. IN THE AREAS INSPECTED, VIOLATIONS WERE NOT IDENTIFIED.

INSPECTION MARCH 7-11 (88-06): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREA OF PLANT CHEMISTRY AND CORROSION. NO VIOLATIONS OR DEVIATIONS WERE 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

ENFORCEMENT SUMMARY

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, GTSC 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 (UPP) IN PROGRESS.

MANAGERIAL ITEMS:

PEP IN PROGRESS.

PLANT STATUS:

REFUELING OUTAGE. PLANT IN COLD SHUTDOWN.

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

INSPECTION REPORT NO: 50-251/88-06 +

TURKEY POINT 4

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-001	01/29/88	02/26/88	TECH SPEC LIMITS EXCEEDED FOR SAFETY SYSTEM SETTINGS DUE TO NON-CONSERVATIVE ACCEPTANCE CRITERIA IN PLANT PROCEDURES
88-002	02/02/88	03/03/88	CONTAINMENT AND CONTROL ROOM VENTILATION ISOLATION DUE TO PERSONNEL ERROR WHILE PERFORM MOD TO REMOVE REMOTE ALARM FUNCTION
88-003	02/07/88	03/08/88	UNIT 4 SHUTDOWN WHEN THREE BATTERY CHARGERS BECAME INOPERABLE DUE TO FAILURE OF A GATE FILTER MODULE

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1. Docket: 50-271 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: G. A. WALLIN (802) 257-7711 X2272

4. Licensed Thermal Power (MWt): 1593

5. Nameplate Rating (Gross MWe): 626 X 0.9 = 563

6. Design Electrical Rating (Net MWe): 514

7. Maximum Dependable Capacity (Gross MWe): 535

8. Maximum Dependable Capacity (Net MWe): 504

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	136,106.8
13. Hours Reactor Critical	744.0	2,184.0	107,029.1
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	2,184.0	104,474.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	1,163,020	3,439,002	153,179,700
18. Gross Elec Ener (MWH)	393,216	1,163,883	51,003,827
19. Net Elec Ener (MWH)	377,284	1,116,806	48,411,893
20. Unit Service Factor	100.0	100.0	76.8
21. Unit Avail Factor	100.0	100.0	76.8
22. Unit Cap Factor (MDC Net)	100.6	101.5	70.6
23. Unit Cap Factor (DER Net)	98.7	99.5	69.2
24. Unit Forced Outage Rate	.0	.0	6.2
25. Forced Outage Hours	.0	.0	5,593.4

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

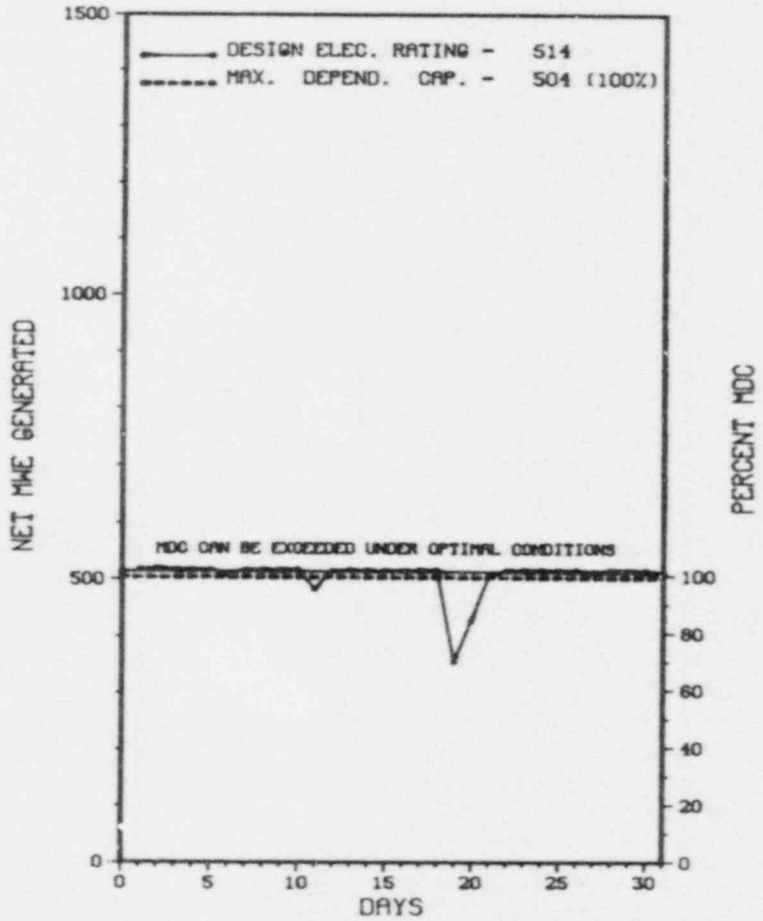
NONE

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

****
* VERMONT YANKEE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

VERMONT YANKEE 1



MARCH 1988

Report Period MAR 1988 UNIT SHUTDOWNS / REDUCTIONS

****
* VERMONT YANKEE 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	03/11/88	F	0.0	B	5		RB	CONROD	SPECTACLE FLANGE BOLTS LOOSENED. ALL BOLTS TORQUED TO SPECIFICATION. CONTROL ROD AND TURBINE SURVEILLANCE TESTING.
88-03	03/19/88	S	0.0	B	5		RB	CONROD	CONTROL ROD PATTERN EXCHANGE, SURVEILLANCE TESTING AND SCHEDULED MAINTENANCE.

****
* SUMMARY *
****

VERMONT YANKEE INCURRED 2 POWER REDUCTIONS IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* VERMONT YANKEE 1 *
****

FACILITY DATA

FACILITY DESCRIPTION

LOCATION
STATE.....VERMONT

COUNTY.....WINDHAM

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...5 MI S OF
BRATTLEBORO, VT

TYPE OF REACTOR.....BWR

DATE INITIAL CRITICALITY...MARCH 24, 1972

DATE ELEC ENER 1ST GENER...SEPTEMBER 20, 1972

DATE COMMERCIAL OPERATE....NOVEMBER 30, 1972

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER COOLING WATER....CONNECTICUT RIVER

ELECTRIC RELIABILITY
COUNCIL.....NORTHEAST POWER
COORDINATING COUNCIL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....VERMONT YANKEE NUCLEAR POWER

CORPORATE ADDRESS.....RD #5, BOX 169, FERRY ROAD
BRATTLEBORO, VERMONT 05301

CONTRACTOR
ARCHITECT/ENGINEER.....EBASCO

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....EBASCO

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR..... W. RAYMOND

LICENSING PROJ MANAGER.....V. ROONEY
DOCKET NUMBER.....50-271

LICENSE & DATE ISSUANCE....DPR-28, FEBRUARY 28, 1973

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224 MAIN STREET
BRATTLEBORO, VERMONT 05301

INSPECTION STATUS

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 OF3M 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 OFDINGS BRAKES IN THE LINITORQUE VALVE OPERATOR WAS NOT ESTABLISHED AT THE TIME OF THE INSPECTION

ENFORCEMENT SUMMARY

IN 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 OFROME XLPE/PUC 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: 03/01/88 Outage + On-line Hrs: 744.0

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	744.0	2,184.0	7,321.0
13. Hours Reactor Critical	744.0	1,620.3	5,668.4
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	744.0	1,580.1	5,500.5
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,456,340	5,208,997	17,869,935
18. Gross Elec Ener (MWH)	819,810	1,735,340	5,919,230
19. Net Elec Ener (MWH)	779,730	1,626,460	5,547,980
20. Unit Service Factor	100.0	72.3	75.1
21. Unit Avail Factor	100.0	72.3	75.1
22. Unit Cap Factor (MDC Net)	97.1	69.0	70.2
23. Unit Cap Factor (DER Net)	95.2	67.6	68.8
24. Unit Forced Outage Rate	.0	26.1	21.4
25. Forced Outage Hours	.0	556.8	1,500.4

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

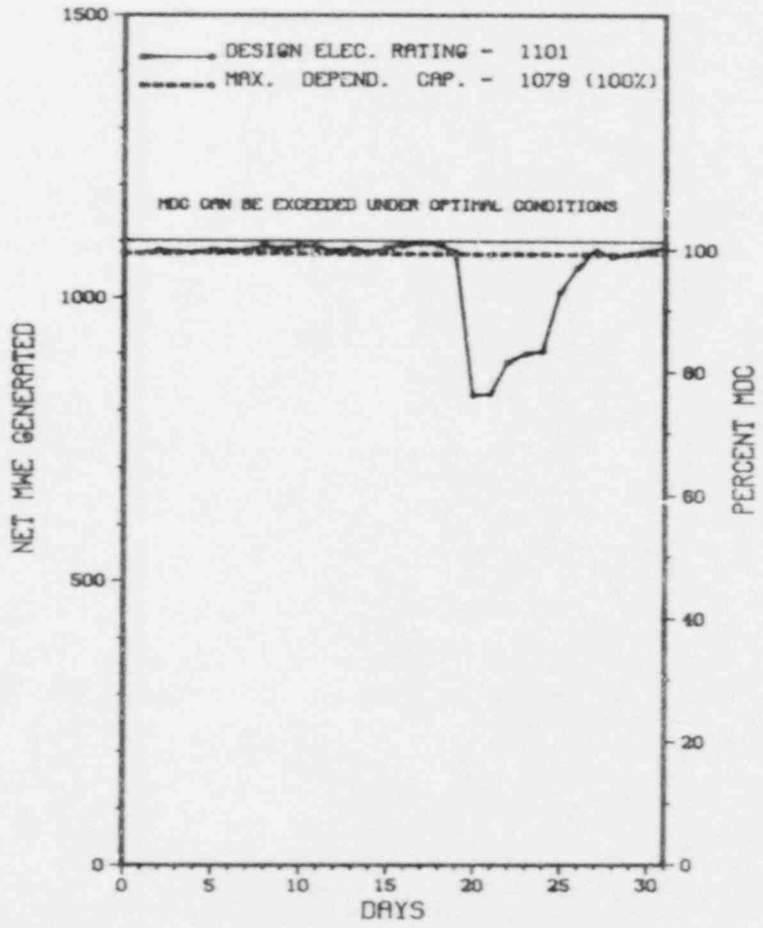
REFUELING - SEPTEMBER 19, 1988, 50 DAY DURATION.

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

****
* VOGTLE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

VOGTLE 1



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

****
* VOGTLE 1 *
****

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-5	03/19/88	F	0.0	A	5		IG	JX	REACTOR POWER RADIAL TILT CAUSED BY AN INOPERABLE NUCLEAR INSTRUMENTATION CHANNEL (NI-43). IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS, POWER WAS REDUCED TO 75%. THE POWER SUPPLY FEEDING NI-43 WAS FOUND TO BE INOPERABLE AND WAS REPLACED. THIS REPAIRED THE NI BUT THEN THE PLANT ENTERED A SCHEDULED MAINTENANCE DERATING TO REPAIR A LEAKING SEAL ON THE HEATER DRAIN PUMP "A".
88-6	03/21/88	S	0.0	A	5		TF	SEAL	HEATER DRAIN PUMP "A" SEAL WAS LEAKING. POWER WAS REDUCED TO 80% TO REPLACE THE SEAL. REPLACED HEATER DRAIN PUMP "A" SEAL AND RETURNED THE PLANT TO FULL POWER.

****
* SUMMARY *
****

VOGTLE INCURRED 2 POWER REDUCTIONS IN MARCH 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 & License Examination	5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
		9-Other	

****
* VOGTLE 1 *
****

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....GEORGIA

COUNTY.....BURKE

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...25 MI SSE OF
AUGUSTA, GA

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MARCH 9, 1987

DATE ELEC ENER 1ST GENER...MARCH 27, 1987

DATE COMMERCIAL OPERATE....JUNE 1, 1987

CONDENSER COOLING METHOD...CCCT

CONDENSER COOLING WATER....SAVANNAH RIVER

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

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....GEORGIA POWER

CORPORATE ADDRESS.....333 PIEDMONT AVENUE, N.E., P. O. BOX 4545
ATLANTA, GEORGIA 30302

CONTRACTOR
ARCHITECT/ENGINEER.....SOUTHERN SERVICES & BECHTEL

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....GEORGIA POWER CO.

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. ROGGE

LICENSING PROJ MANAGER.....J. HOPKINS
DOCKET NUMBER.....50-424

LICENSE & DATE ISSUANCE...NPF-68, MARCH 16, 1987

PUBLIC DOCUMENT ROOM.....BURKE COUNTY LIBRARY
412 FOURTH ST.
WAYNESBORO, GA. 30830

INSPECTION STATUS

INSPECTION SUMMARY

+ INSPECTION JANUARY 25-29 (88-07): THIS ROUTINE, ANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSED OPERATOR TRAINING, NON-LICENSED OPERATOR TRAINING, MAINTENANCE TRAINING, AND NATURAL CIRCULATION COOLDOWN EMERGENCY OPERATING PROCEDURES. ONE DEVIATION WAS IDENTIFIED WHEREIN THE LICENSEE DEVIATED FROM COMMITMENTS MADE IN THEIR NRC APPROVED PROCEDURE GENERATION PACKAGE (PGP) IN WRITING THEIR EMERGENCY OPERATING PROCEDURES FOR NATURAL CIRCULATION COOLDOWN.

INSPECTION JANUARY 30 -FEBRUARY 26 (88-09): 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. TWO VIOLATIONS WERE IDENTIFIED IN THE AREAS OF SURVEILLANCE AND QUALITY PROGRAMS (FAILURE TO ESTABLISH AN ADEQUATE SURVEILLANCE PROCEDURE FOR THE HYDROGEN MONITORS AND FAILURE TO SUBMIT A LER FOR MISSED SURVEILLANCES).

INSPECTION FEBRUARY 9-11 (88-10): THIS ROUTINE, ANNOUNCED INSPECTION OF THE LICENSEE INVESTIGATION AND CORRECTION OF THE FAILURES EXPERIENCED IN RESIDUAL HEAT REMOVAL (RHR) SYSTEM VALVES 1-HV-8716A AND B. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION FEBRUARY 22-26 (88-13): THIS ROUTINE, UNANNOUNCED INSPECTION WAS CONDUCTED IN THE AREAS OF LICENSEE ACTION ON PREVIOUS ENFORCEMENT MATTERS, AUDITS, ONSITE FOLLOWUP OF EVENTS, EXTERNAL EXPOSURE CONTROL, ORGANIZATION AND MANAGEMENT CONTROLS, SOLID WASTES, TRANSPORTATION, AND FOLLOWUP ON INSPECTOR IDENTIFIED ITEMS. FOUR VIOLATIONS WITH EXAMPLES WERE IDENTIFIED - THREE EXAMPLES OF FAILURE TO PROVIDE ADEQUATE HIGH RADIATION AREA CONTROLS, FAILURE TO ADHERE TO PROCEDURES FOR INSTALLATION OF TEMPORARY SHIELDING, FAILURE TO PERFORM ADEQUATE RADIATION SURVEYS AND TWO EXAMPLES OF FAILURE TO DOCUMENT SURVEYS.

****
* VOGTLE 1 *
****

INSPECTION SUMMARY

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

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

INSPECTION REPORT NO: 50-424/88-13 +

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-003	02/01/88	03/01/88	PERSONNEL ERROR CAUSES A HIGH STEAM GENERATOR WATER LEVEL AND EST ACTUATION
88-004	02/01/88	03/02/88	CONTAINMENT HYDROGEN [illegible] INDICATION INOPERABLE DUE TO PERSONNEL ERROR
88-005	02/02/88	03/03/88	PERSONNEL ERROR LEADS [illegible] EXCEEDING TECH SPEC TIME INTERVAL FOR AN ACTION REQUIREMENT
88-006	02/13/88	03/16/88	REACTOR TRIP WHICH RES[illegible]D FROM A GENERATOR FIELD GROUND CAUSED BY A PERSONNEL ERROR

1. Docket: 50-397 OPERATING STATUS
2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0
3. Utility Contact: LEONARD HUTCHISON (509) 377-2486
4. Licensed Thermal Power (MWt): 3323
5. Nameplate Rating (Gross MWe): 1201
6. Design Electrical Rating (Net MWe): 1100
7. Maximum Dependable Capacity (Gross MWe): 1140
8. Maximum Dependable Capacity (Net MWe): 1095
9. If Changes Occur Above Since Last Report, Give Reasons:

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

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	28,904.2
13. Hours Reactor Critical	544.3	1,520.2	21,427.3
14. Rx Reserve Shtdwn Hrs	.0	.0	340.4
15. Hrs Generator On-Line	519.2	1,474.8	20,616.7
16. Unit Reserve Shtdwn Hrs	.0	.0	381.7
17. Gross Therm Ener (MWH)	1,497,600	4,439,698	54,822,465
18. Gross Elec Ener (MWH)	509,490	1,497,610	18,314,750
19. Net Elec Ener (MWH)	491,111	1,445,297	17,613,249
20. Unit Service Factor	69.8	67.5	71.3
21. Unit Avail Factor	69.8	67.5	72.6
22. Unit Cap Factor (MDC Net)	60.3	60.4	55.6
23. Unit Cap Factor (DER Net)	60.0	60.2	55.4
24. Unit Forced Outage Rate	30.2	32.5	10.2
25. Forced Outage Hours	224.8	709.2	2,354.3

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

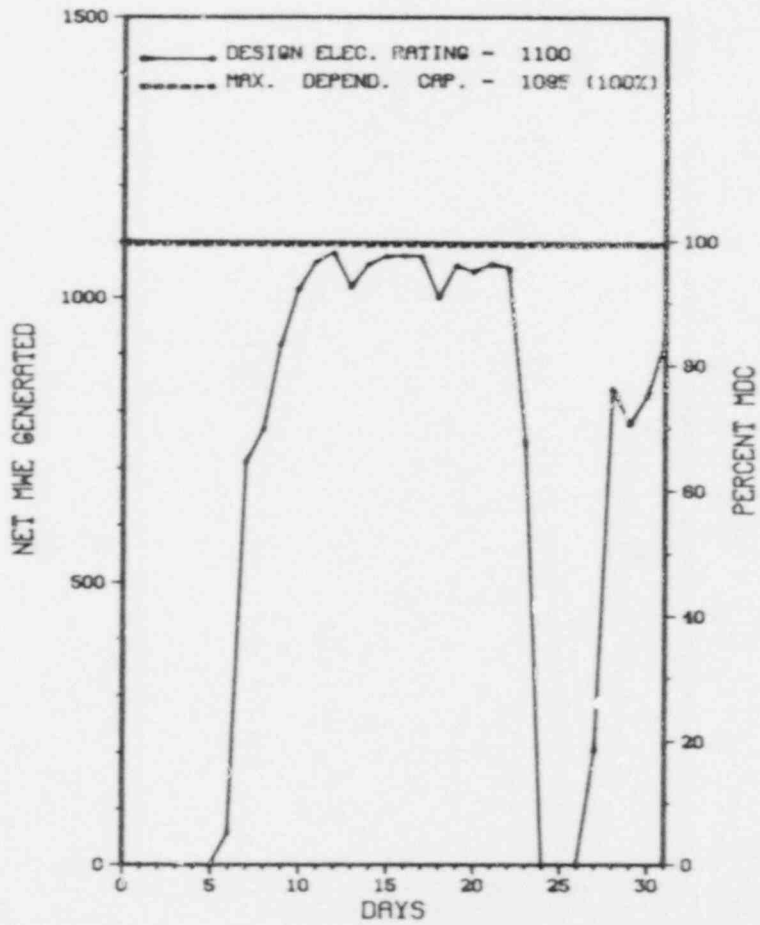
REFUELING/MAINT-APRIL 25, 1988 - 45 DAY DURATION.

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

****
* WASHINGTON NUCLEAR 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WASHINGTON NUCLEAR 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

WASHINGTON NUCLEAR 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-05	02/13/88	F	138.3	A	4	88-07	HC	HTEXCH	CONCLUDED EXTENDED OUTAGE FOR ROOF REPAIR.
88-06	03/23/88	F	86.5	A	1		HC	HTEXCH	PLANT WAS SHUT DOWN DUE TO HIGH CONDUCTIVITY AS A RESULT OF A CONDENSER IN-LEAKAGE PROBLEM. REPAIRS WERE PERFORMED AND UNIT RETURNED TO SERVICE.

*** SUMMARY ***

WASHINGTON NUCLEAR 2 EXPERIENCED 2 POWER OUTAGES IN MARCH 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 & License Examination	5-Reduced Load	Licensee Event Report
		9-Other	(LER) File (NUREG-0161)

FACILITY DATA

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 19 - MARCH 10, 1988 (REPORT NO. 50-397/88-02) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON FEBRUARY 21-26, 1988 (REPORT NO. 50-397/88-04) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR OF LIQUID AND LIQUID WASTES, GASEOUS WASTE SYSTEM, SOLID WASTES, INCLUDING FOLLOWUP OF PREVIOUS INSPECTION FINDINGS, AND A TOUR OF THE LICENSEE'S FACILITY. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON APRIL 26-29, 1988 (REPORT NO. 50-397/88-06) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ MANAGEMENT MEETING ON MARCH 1, 1988 (REPORT NO. 50-397/88-07) A MANAGEMENT MEETING WAS HELD ON THE ABOVE DATE TO DISCUSS ISSUES OF CURRENT INTEREST RELATING TO THE WNP-2 NUCLEAR GENERATING STATION.

+ INSPECTION ON JUNE 1, 1987 - MAY 31, 1988 (REPORT NO. 50-397/88-08) INSPECTION TO BE CONDUCTED IN JUNE 1988.

+ INSPECTION ON MARCH 7-11, 1988 (REPORT NO. 50-397/88-09) AREAS INSPECTED: ROUTINE PROJECT INSPECTION IN THE AREAS OF SCRAM DISCHARGE VOLUME CAPACITY, RESPONCE TO NRC BULLETIN 85-03, "MOTOR OPERATED VALVE COMMON MODE FAILURE;" FOLLOWUP OF INSPECTOR IDENTIFIED ITEMS, AND ON-SITE REVIEW OF EVENTS. DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON MARCH 11 - APRIL 7, 1988 (REPORT NO. 50-397/88-10) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON MARCH 14-18, 1988 (REPORT NO. 50-397/88-11) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION BY A REGIONALLY BASED INSPECTOR OF THE LICENSEE'S ACTIONS TAKEN TO IMPLEMENT GENERIC LETTER 84-11, "INSPECTIONS OF BWR STAINLESS STEEL PIPING," AND THEIR RESPONSE TO NRC BULLETIN 87-01, "THINNING OF PIPE WALLS IN NUCLEAR POWER PLANTS." DURING THIS INSPECTION, VARIOUS INSPECTION PROCEDURES WERE UTILIZED.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE UTILIZED.

+ INSPECTION ON APRIL 25 - MAY 13, 1988 (REPORT NO. 50-397/88-12) INSPECTION CONTINUING; TO BE REPORTED AT A LATER DATE.

+ INSPECTION ON APRIL 5-13, 1988 (REPOORT NO. 50-397/88-13) REPORT BEING PREPARED TO BE REPORTED NEXT MONTH.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ REPAIRS TO THE REACTOR BUILDING ROOF AND VENTILATION FANS (REFER TO LAST MONTH'S REPORT) CONTINUED UNTIL PLANT RESTART ON MARCH 6, 1988.

FACILITY ITEMS (PLANS AND PROCEDURES)

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE PLANT RESTARTED ON MARCH 6, 1988, AFTER COMPLETING REPAIRS TO THE REACTOR BUILDING ROOF AND OPERATED AT OR NEAR FULL POWER DURING THE REMAINDER OF THE MONTH EXCEPT FOR A CONDENSER TUBE REPAIR OUTAGE ON MARCH 23-26, 1988.

LAST IE SITE INSPECTION DATE: 06/01/1987 - 05/31/1988+

INSPECTION REPORT NO: 50-397/88-08+

Report Period MAR 1988

REPORTS FROM LICENSEE

****
* WASHINGTON NUCLEAR 2 *
****

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
88-01-L0	01-18-88	02-15-88	REACTOR PROTECTIVE SYSTEM AUTO ACTION DURING PLANT SHUTDOWN DUE TO INADEQUATE PROCEDURES
88-02-L0	01-22-88	02-19-88	RCIC PUMP SUCTION LINE NOT SEISMICALLY QUALIFIED DUE TO A/E DESIGN ERROR
88-03-L0	02-04-88	03-07-88	REACTOR SCRAM DUE TO MAIN STEAMLINE ISOLATION CAUSED BY PERSONNEL ERROR
88-04-L0	02-04-88	03-04-88	SLC SYSTEM INOPERABLE LONGER
88-05-L0	02-08-88	03-09-88	CONTROL ROOM EMERGENCY FILTRATION SYSTEM BYPASS FLOW NOT IN COMPLIANCE WITH TECH SPECS.

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1. Docket: 50-382 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: GEORGE MILLER (504) 467-8211

4. Licensed Thermal Power (MWt): 3390

5. Nameplate Rating (Gross MWe): 1153

6. Design Electrical Rating (Net MWe): 1104

7. Maximum Dependable Capacity (Gross MWe): 1120

8. Maximum Dependable Capacity (Net MWe): 1075

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	22,081.0
13. Hours Reactor Critical	698.3	2,084.1	18,188.7
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	688.3	2,029.5	17,843.9
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,298,501	6,781,518	58,242,490
18. Gross Elec Ener (MWH)	779,400	2,298,230	19,679,040
19. Net Elec Ener (MWH)	745,084	2,198,775	18,731,233
20. Unit Service Factor	92.5	92.9	80.8
21. Unit Avail Factor	92.5	92.9	80.8
22. Unit Cap Factor (MDC Net)	93.2	93.7	78.9
23. Unit Cap Factor (DER Net)	90.7	91.2	76.8
24. Unit Forced Outage Rate	7.5	5.2	9.3
25. Forced Outage Hours	55.7	111.3	1,840.1

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

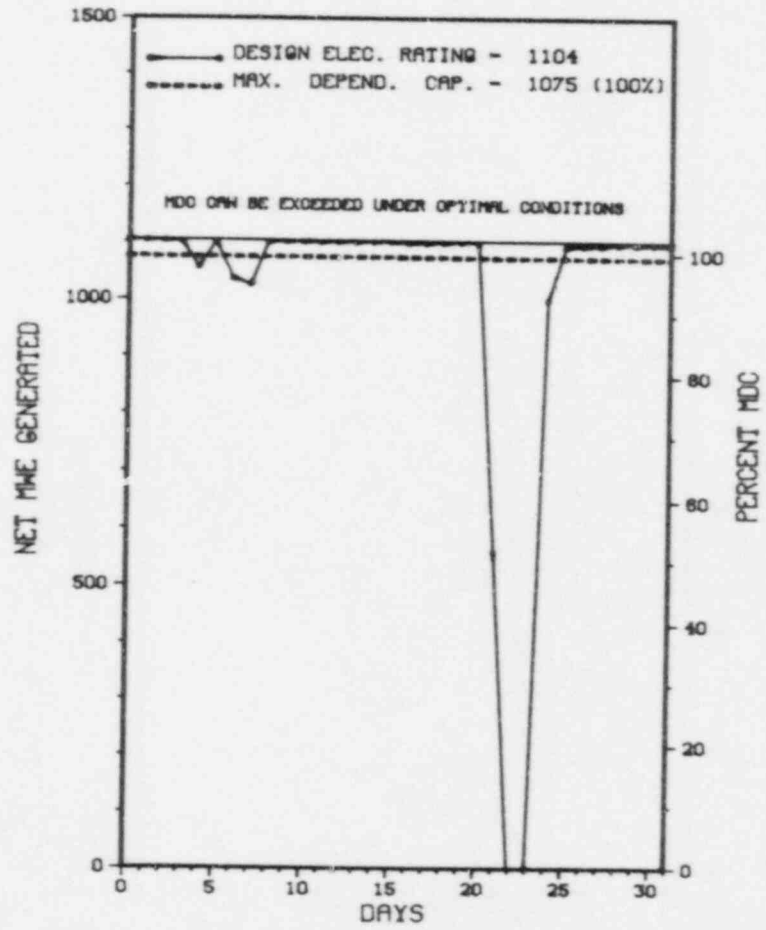
REFUELING/MAINT OUTAGE, 4/2/88, 60 DAY DURATION.

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

****
* WATERFORD 3 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WATERFORD 3



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

WATERFORD 3

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-02	03/21/88	F	55.7	B	1		AB	STR	UNIT SHUTDOWN TO REMOVE LUBE OIL STRAINER ON REACTOR COOLANT PUMP 2B.

SUMMARY

WATERFORD 3 INCURRED 1 OUTAGE IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* WATERFORD 3 *
****

FACILITY DATA

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 FEB. 1 - MARCH 15, 1988 (88-04)) ROUTINE, UNANNOUNCED INSPECTION CONSISTING OF: (1) OPERATIONAL SAFETY VERIFICATION, (2) MONTHLY MAINTENANCE OBSERVATION, (3) ONSITE FOLLOWUP OF EVENTS, (4) ENGINEERED SAFETY FEATURE (ESF) SYSTEM WALKDOWN, (5) MONTHLY SURVEILLANCE OBSERVATION, (6) FOLLOWUP OF PREVIOUSLY IDENTIFIED ITEMS, (7) LICENSEE EVENT REPORT FOLLOWUP, (8) COLD WEATHER PREPARATION, AND (9) PLANT STATUS. WTHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED. THIS VIOLATION INVOLVED A FAILURE TO ADHERE TO FIRE PROTECTION PROCEDURES.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

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):

FACILITY WILL COMMENCE RFO-2 ON APRIL 1, 1988 (UNLESS DELAYED BY FORCED OUTAGE).

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

OPERATING AT FULL POWER

LAST IE SITE INSPECTION DATE: MARCH 15, 1988

INSPECTION REPORT NO: 50-382/88-04

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

1. Docket: 50-482 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: M. WILLIAMS (316) 364-8831

4. Licensed Thermal Power (MWt): 3411

5. Nameplate Rating (Gross MWe): 1250

6. Design Electrical Rating (Net MWe): 1170

7. Maximum Dependable Capacity (Gross MWe): 1170

8. Maximum Dependable Capacity (Net MWe): 1128

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

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	22,583.7
13. Hours Reactor Critical	744.0	1,580.6	17,047.1
14. Rx Reserve Shtdwn Hrs	.0	89.5	339.8
15. Hrs Generator On-Line	744.0	1,427.4	16,630.5
16. Unit Reserve Shtdwn Hrs	.0	.0	19.0
17. Gross Therm Ener (MWH)	2,526,972	4,700,104	54,126,488
18. Gross Elec Ener (MWH)	891,867	1,648,260	18,837,151
19. Net Elec Ener (MWH)	858,455	1,562,809	17,975,117
20. Unit Service Factor	100.0	65.4	73.6
21. Unit Avail Factor	100.0	65.4	73.7
22. Unit Cap Factor (MDC Net)	102.3	63.4	54.5*
23. Unit Cap Factor (DER Net)	98.6	61.2	68.0
24. Unit Forced Outage Rate	.0	31.0	8.4
25. Forced Outage Hours	.0	640.7	1,517.0

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

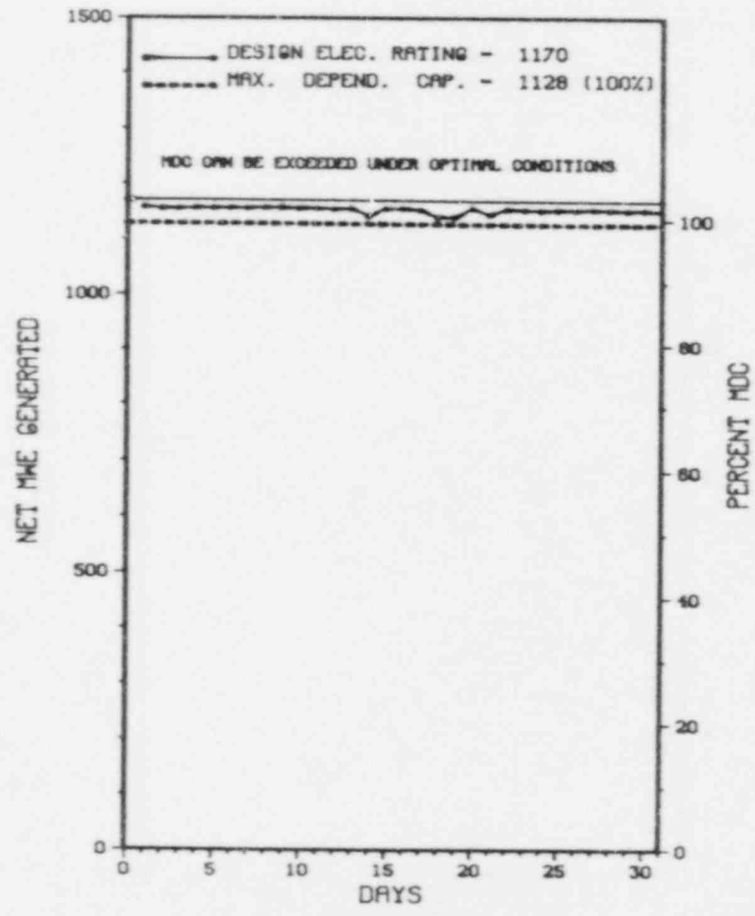
NONE

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

****
* WOLF CREEK 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

WOLF CREEK 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 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 *
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WOLF CREEK OPERATED ROUTINELY IN MARCH WITH NO POWER 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* WOLF CREEK 1 *
****

FACILITY DATA

Report Period MAR 1988

FACILITY DESCRIPTION

LOCATION
STATE.....KANSAS

COUNTY.....COFFEY

DIST AND DIRECTION FROM
NEAREST POPULATION CTR...3.5 MI NE OF
BURLINGTON, KAN

TYPE OF REACTOR.....PWR

DATE INITIAL CRITICALITY...MAY 22, 1985

DATE ELEC ENER 1ST GENER...JUNE 12, 1985

DATE COMMERCIAL OPERATE....SEPTEMBER 3, 1985

CONDENSER COOLING METHOD...COOLING LAKE

CONDENSER COOLING WATER....COOLING LAKE

ELECTRIC RELIABILITY
COUNCIL.....SOUTHWEST POWER POOL

UTILITY & CONTRACTOR INFORMATION

UTILITY
LICENSEE.....KANSAS GAS & ELECTRIC

CORPORATE ADDRESS.....P.O. BOX 208
WICHITA, KANSAS 67201

CONTRACTOR
ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....DANIEL INTERNATIONAL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....IV

IE RESIDENT INSPECTOR.....J. CUMMINS

LICENSING PROJ MANAGER.....P. OCONNOR
DOCKET NUMBER.....50-482

LICENSE & DATE ISSUANCE....NPF-42, JUNE 4, 1985

PUBLIC DOCUMENT ROOM.....WILLIAM ALLAN WHITE LIBRARY
GOVERNMENT DOCUMENTS DIVISION
EMPORIA STATE UNIVERSITY
1200 COMMERCIAL STREET
EMPORIA, KANSAS 66801

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION CONDUCTED NOV. 19, 1987 - JAN. 3, 1988 (87-33) ROUTINE, UNANNOUNCED INSPECTION INCLUDING PLANT STARTUP FROM REFUELING, OPERATIONAL SAFETY VERIFICATION, MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, ONSITE EVENT FOLLOWUP, PHYSICAL SECURITY VERIFICATION, RADIOLOGICAL PROTECTION, COLD WEATHER PREPARATION, AND CATHODIC PROTECTION SYSTEM. WITHIN THE NINE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED (FAILURE TO REPORT AS REQUIRED BY 10 CFR 50.72).

INSPECTION CONDUCTED JAN 4 - FEB 14, 1988 (88-01) ROUTINE, UNANNOUNCED INSPECTION INCLUDING ONSITE EVENT FOLLOWUP, ENGINEERED SAFETY FEATURES SYSTEM WALKDOWN, OPERATIONAL SAFETY VERIFICATION, MONTHLY MAINTENANCE OBSERVATION, MONTHLY SURVEILLANCE OBSERVATION, PART 21 FOLLOWUP, ALLEGATION FOLLOWUP, PHYSICAL SECURITY VERIFICATION, AND RADIOLOGICAL PROTECTION. WITHIN THE NINE AREAS INSPECTED, ONE VIOLATION (FAILURE TO COMPLY WITH THE LICENSEE'S TEMPORARY MODIFICATION PROCEDURE WAS IDENTIFIED).

INSPECTION CONDUCTED JAN 25-29, 1988 (88-04) NONROUTINE AND ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S ACTIONS IN REGARD TO A REPORTED LEAK FROM THE REACTOR VESSEL TO VESSEL HEAD SEALS, REVIEW OF THE LICENSEE'S QUALITY ASSURANCE PROGRAM IMPLEMENTATION INCLUDING THE AREAS OF AUDIT PROGRAMS; AUDIT PROGRAM IMPLEMENTATION; RECEIPT, STORAGE, AND HANDLING OF MATERIALS; AND CONTROL OF RECORDS. WITHIN THE AREAS INSPECTED, A VIOLATION WAS IDENTIFIED (FAILURE TO HAVE PROCEDURES APPROPRIATE TO THE CIRCUMSTANCES). NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED IN THE REMAINING AREAS.

INSPECTION CONDUCTED JAN 25-29, 1988 (88-05) ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S PHYSICAL SECURITY PROGRAM INCLUDING

****
* WOLF CREEK 1 *
****

INSPECTION SUMMARY

VITAL AREA BARRIERS AND DETECTION AIDS, COMPENSATORY MEASURES, ALARM STATIONS, COMMUNICATIONS, AND FOLLOWUP ON PREVIOUS INSPECTION FINDINGS. WITHIN THE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED (INADEQUATE ACCESS CONTROL, PARAGRAPH 3).

INSPECTION CONDUCTED JAN 25-29, 1988 (88-06) ROUTINE, UNANNOUNCED INSPECTION OF EVENTS ASSOCIATED WITH THE REACTOR PRESSURE VESSEL WATER LEVEL AND THE RHR SYSTEM, VERIFICATION OF CONTAINMENT INTEGRITY, AND CONTAINMENT LOCAL LEAK RATE TESTING. WITHIN THE THREE AREAS INSPECTED, ONE VIOLATION WAS IDENTIFIED (FAILURE TO HAVE PROCEDURES APPROPRIATE TO THE CIRCUMSTANCES, PARAGRAPHS 2 & 3).

INSPECTION CONDUCTED FEB 8-12, 1988 (88-08) ROUTINE, UNANNOUNCED INSPECTION OF ACTIONS TAKEN IN RESPONSE TO IE BULLETIN 85-03 AND A REVIEW OF THE EVALUATION OF THE RECENT COMPONENT COOLING WATER (CCW) WATERHAMMER PROBLEM. WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED FEB 22-26, 1988 (88-11) ROUTINE, UNANNOUNCED INSPECTION OF INSERVICE TESTING OF PUMPS AND VALVES. SUBJECTS ADDRESSED IN THIS AREA OF INSPECTION INCLUDED PROGRAM AND ORGANIZATION, PROCEDURE AND RECORDS, TEST WITNESS, AND PERSONNEL QUALIFICATION AND TRAINING. WITHIN THE ONE AREA INSPECTED, ONE VIOLATION WAS IDENTIFIED (FAILURE TO MAKE PERTINENET PUMP STATUS ENTRIES IN PUMP AND VALVE EVENTS LOG).

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

PLANT STATUS:

LAST IE SITE INSPECTION DATE: NOV 17, 1987

INSPECTION REPORT NO: 50-482/87-36

REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
NONE			

1. Docket: 50-029 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: S. WHIPPLE (617) 872-8100

4. Licensed Thermal Power (MWt): 600

5. Nameplate Rating (Gross MWe): 185 X 1.0 = 185

6. Design Electrical Rating (Net MWe): 175

7. Maximum Dependable Capacity (Gross MWe): 180

8. Maximum Dependable Capacity (Net MWe): 167

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	239,949.0
13. Hours Reactor Critical	677.1	2,117.1	193,230.0
14. Rx Reserve Shtdwn Hrs	.0	.0	.0
15. Hrs Generator On-Line	654.6	2,094.6	188,176.0
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	361,734	1,181,514	102,794,539
18. Gross Elec Ener (MWH)	110,514	358,861	31,143,806
19. Net Elec Ener (MWH)	103,228	335,428	29,139,972
20. Unit Service Factor	88.0	95.9	78.4
21. Unit Avail Factor	88.0	95.9	78.4
22. Unit Cap Factor (MDC Net)	83.1	92.0	74.5*
23. Unit Cap Factor (DER Net)	79.3	87.8	71.0*
24. Unit Forced Outage Rate	12.0	4.1	5.1
25. Forced Outage Hours	89.4	89.4	8,993.3

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

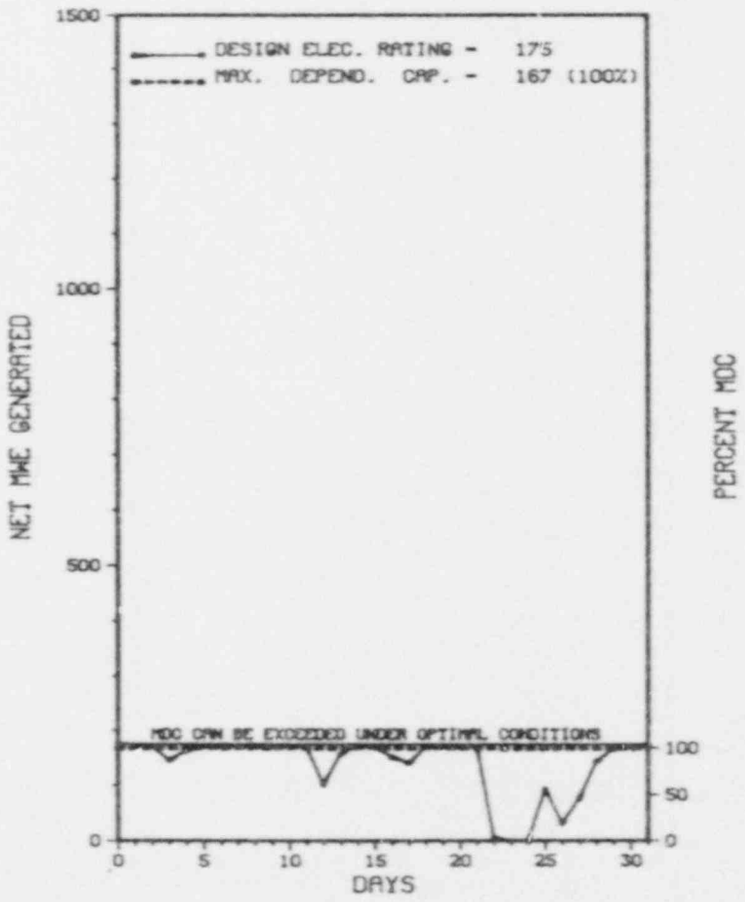
NONE

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

****
* YANKEE-ROWE 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

YANKEE-ROWE 1



MARCH 1988

* Item calculated with a Weighted Average

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

YANKEE-ROWE 1

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
88-5	03/03/88	F	0.0	B	5				LOAD RELDUCTION - REPAIR NO. 1 HEATER DRAIN PUMP.
88-6	03/12/88	F	0.0	A	5				LOAD REDUCTION - CONDENSER LEAK CHECK/TUBE PLUGGING.
88-7	03/16/88	F	0.0	A	5				LOAD REDUCTIONS - REPAIR NO. 1 AND NO. 2 HEATER DRAIN PUMP.
88-8	03/22/88	F	68.7	A	3	88-2	JC	XFMR	FAILED SOLA TRANSFORMER FOR NUCLEAR INSTRUMENTATION CABINET A. REPLACED TRANSFORMER.
88-9	03/26/88	F	20.7	A	3	88-3	JB	JX	STEAM GENERATOR NO. 2 FEEDWATER FLOW CONTROLLER ERRATIC. REPLACED FLOW CONTROLLER POWER SUPPLY.

SUMMARY

YANKEE ROWE INCURRED 3 FORCED POWER REDUCTIONS AND 2 FORCED OUTAGES IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report (LER) File (NUREG-0161)
			9-Other	

****
* YANKEE-ROWE 1 *
****

FACILITY DATA

Report Period MAR 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

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

ENFORCEMENT SUMMARY

10 CFR 50, PART 50.72(B)(I)(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)(I)(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. (8701 5)

OTHER ITEMS

****
* YANKEE-ROWE 1 *
****

OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

REPORTS FROM LICENSEE

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

1. Docket: 50-295 OPERATING STATUS

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: GERRI AUSTIN (312) 746-2084

4. Licensed Thermal Power (MWt): 3250

5. Nameplate Rating (Gross MWe): 1220 X 0.9 = 1098

6. Design Electrical Rating (Net MWe): 1040

7. Maximum Dependable Capacity (Gross MWe): 1085

8. Maximum Dependable Capacity (Net MWe): 1040

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	124,920.0
13. Hours Reactor Critical	.0	1,306.2	87,391.6
14. Rx Reserve Shtdwn Hrs	.0	.0	2,621.8
15. Hrs Generator On-Line	.0	1,306.2	84,846.7
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	0	3,999,310	245,225,637
18. Gross Elec Ener (MWH)	0	1,362,489	78,578,098
19. Net Elec Ener (MWH)	-5,218	1,300,046	74,672,439
20. Unit Service Factor	.0	59.8	67.9
21. Unit Avail Factor	.0	59.8	67.9
22. Unit Cap Factor (MDC Net)	.0	57.2	57.5
23. Unit Cap Factor (DER Net)	.0	57.2	57.5
24. Unit Forced Outage Rate	.0	.9	12.7
25. Forced Outage Hours	.0	12.0	11,680.2

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

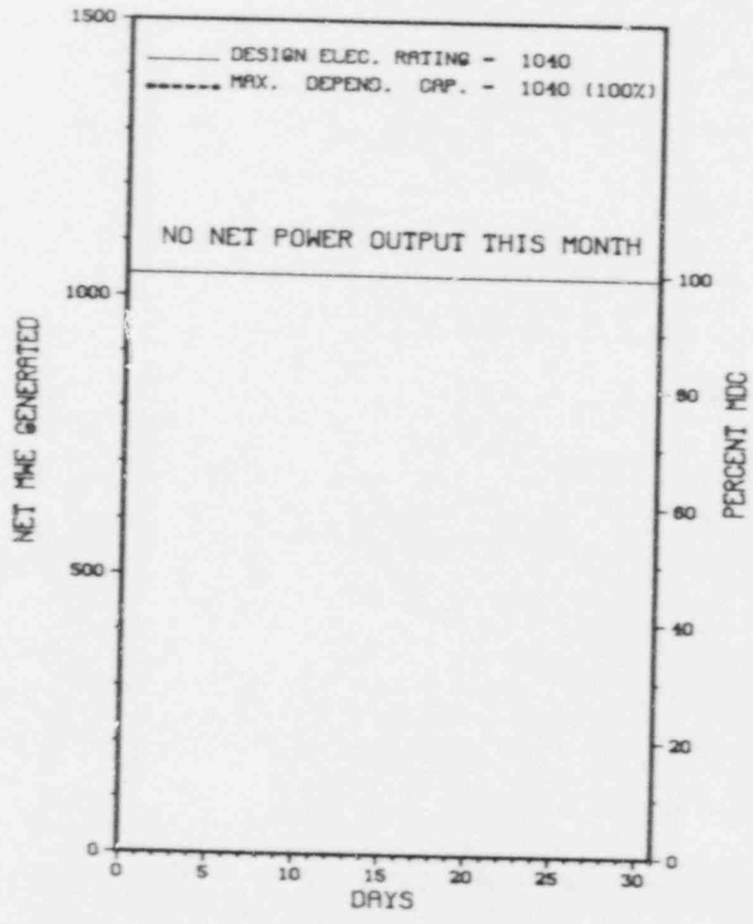
NONE

27. If Currently Shutdown Estimated Startup Date: 04/30/88

****
* ZION 1 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 1



MARCH 1988

Report Period MAR 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	744.0	C	4				CYCLE 10-11 REFUELING OUTAGE.

SUMMARY

ZION 1 REMAINED SHUTDOWN IN MARCH 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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

****
* ZION 1 *
****

FACILITY DATA

Report Period MAR 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 FEBRUARY 1 THROUGH 19, 1988 (88008; 88009). THE SPECIAL INSPECTION REVIEWED THE CIRCUMSTANCES SURROUNDING THE INADEQUATE SEARCH OF PACKAGED MATERIAL WHICH WAS OBSERVED ON FEBRUARY 1, 1988. ON VIOLATION WAS IDENTIFIED AND IS DESCRIBED BELOW:

ACCESS CONTROL PACKAGES: A PACKAGE ENTERING THE PROTECTED AREA WAS NOT SEARCHED AS REQUIRES. (DETAILS: UNCLASSIFIED SAFEGUARDS INFORMATION)

INSPECTION ON SEPTEMBER 14-18, 1987 (87024; 87025). SPECIAL, ANNOUNCED INSPECTION OF THE CHECK VALVE TESTING PROGRAM, CHECK VALVE LOCATION, CHECK VALVE MAINTENANCE AND FAILURE HISTORY, AND THE RESPONSE TO THE INSTITUTE OF NUCLEAR POWER OPERATION'S (INPO) SIGNIFICANT OPERATING EVENT REPORT (SOER) 86-3. THE FINDINGS OF THIS INSPECTION WERE THAT (1) PRESSURE ISOLATION VALVES ARE NOT BEING TESTED INDIVIDUALLY AS REQUIRED BY AN NRC CONFIRMATORY ORDER ISSUED FEBRUARY 29, 1980; (2) VALVE TESTING DOES NOT ENSURE THAT ALL SAFETY FUNCTIONS WILL BE FULFILLED; (3) TEST PROCEDURES DO NOT RESULT IN VALID TESTS OF ALL VALVES LISTED AS BEING TESTED; AND (4) VALVES FAILING LEAK.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT OPERATED FOR THE ENTIRE PERIOD IN MODE 1 AT POWER LEVELS UP TO 100% POWER.

LAST IE SITE INSPECTION DATE: 02/19/88

INSPECTION REPORT NO: 88008

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
88-05	022488	032588	REACTOR TRIP DUE TO STEAM GENERATOR LEVEL TRANSIENT AFTER FEEDWATER PUMP TEST

1. Docket: 50-304 O P E R A T I N G S T A T U S

2. Reporting Period: 03/01/88 Outage + On-line Hrs: 744.0

3. Utility Contact: GERRI AUSTIN (312) 746-2084

4. Licensed Thermal Power (MWt): 3250

5. Nameplate Rating (Gross MWe): 1220 X 0.9 = 1098

6. Design Electrical Rating (Net MWe): 1040

7. Maximum Dependable Capacity (Gross MWe): 1085

8. Maximum Dependable Capacity (Net MWe): 1040

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

NONE

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

11. Reasons for Restrictions, If Any:

NONE

	MONTH	YEAR	CUMULATIVE
12. Report Period Hrs	744.0	2,184.0	118,633.0
13. Hours Reactor Critical	744.0	2,184.0	86,956.6
14. Rx Reserve Shtdwn Hrs	.0	.0	226.1
15. Hrs Generator On-Line	744.0	2,184.0	84,548.3
16. Unit Reserve Shtdwn Hrs	.0	.0	.0
17. Gross Therm Ener (MWH)	2,172,524	6,683,176	251,376,943
18. Gross Elec Ener (MWH)	729,724	2,251,596	79,593,729
19. Net Elec Ener (MWH)	700,469	2,158,976	75,784,796
20. Unit Service Factor	100.0	100.0	71.3
21. Unit Avail Factor	100.0	100.0	71.3
22. Unit Cap Factor (MDC Net)	90.5	95.1	61.4
23. Unit Cap Factor (DER Net)	90.5	95.1	61.4
24. Unit Forced Outage Rate	.0	.0	14.0
25. Forced Outage Hours	.0	.0	13,795.9

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

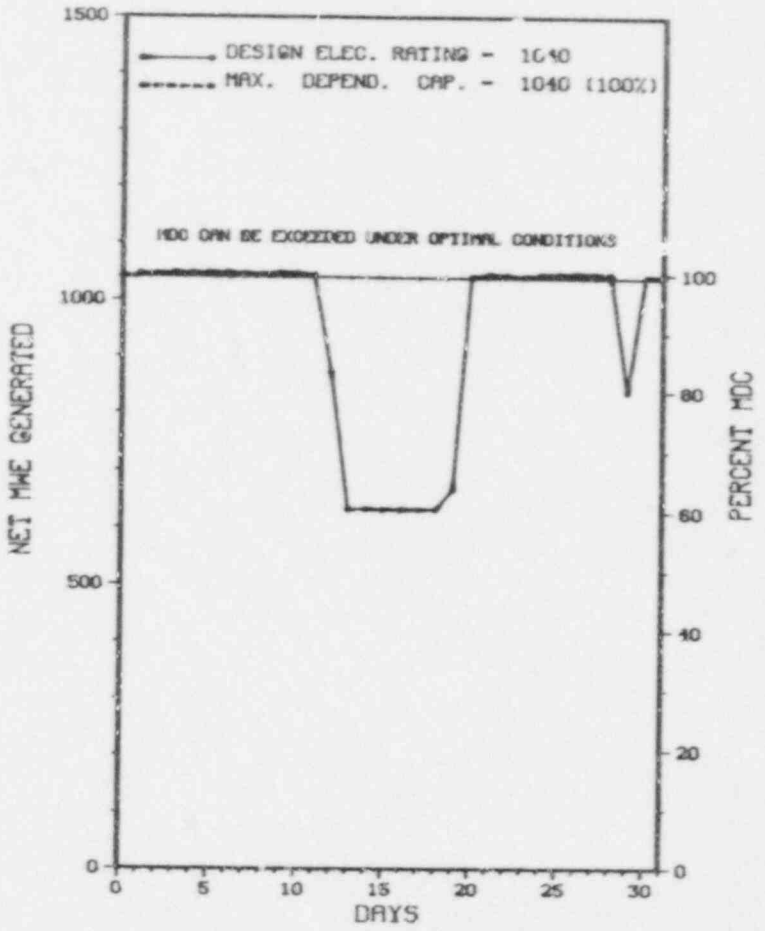
NONE

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

****
* ZION 2 *
****

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 2



MARCH 1988

Report Period MAR 1988

UNIT SHUTDOWNS / REDUCTIONS

ZION 2

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3	03/12/88	S	0.0	A	5				STARTED RAMP DOWN TO 65% DUE TO DISCOVERY THAT 3 "Q" TYPE STEAM GENERATOR SAFETIES WERE IMPROPERLY SET.
4	03/29/88	S	0.0	A	5				LOAD REDUCTION DUE TO LOSS OF CONTROL ROD DRIVE VENT FANS. 2A CONTROL ROD DRIVE VENT FAN WAS RESTARTED AND LOAD REDUCTION WAS THEN STOPPED.

SUMMARY

ZION 2 INCURRED 2 LOAD REDUCTIONS IN MARCH FOR REASONS STATED ABOVE.

Type	Reason		Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhibit F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)
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 & License Examination		5-Reduced Load	
			9-Other	

****
* ZION 2 *
****

FACILITY DATA

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 STRLET
WAUKEGAN, ILLINOIS 60085

INSPECTION STATUS

INSPECTION SUMMARY

INSPECTION ON FEBRUARY 1 THROUGH 19, 1988 (88008; 88009). THE SPECIAL INSPECTION REVIEWED THE CIRCUMSTANCES SURROUNDING THE INADEQUATE SEARCH OF PACKAGED MATERIAL WHICH WAS OBSERVED ON FEBRUARY 1, 1988. ON VIOLATION WAS IDENTIFIED AND IS DESCRIBED BELOW:

ACCESS CONTROL PACKAGES: A PACKAGE ENTERING THE PROTECTED AREA WAS NOT SEARCHED AS REQUIRES. (DETAILS: UNCLASSIFIED SAFEGUARDS INFORMATION)

INSPECTION ON SEPTEMBER 14-18, 1987 (87024; 87025). SPECIAL, ANNOUNCED INSPECTION OF THE CHECK VALVE TESTING PROGRAM, CHECK VALVE LOCATION, CHECK VALVE MAINTENANCE AND FAILURE HISTORY, AND THE RESPONSE TO THE INSTITUTE OF NUCLEAR POWER OPERATION'S (INPO) SIGNIFICANT OPERATING EVENT REPORT (SOER) 86-3. THE FINDINGS OF THIS INSPECTION WERE THAT (1) PRESSURE ISOLATION VALVES ARE NOT BEING TESTED INDIVIDUALLY AS REQUIRED BY AN NRC CONFIRMATORY ORDER ISSUED FEBRUARY 29, 1980; (2) VALVE TESTING DOES NOT ENSURE THAT ALL SAFETY FUNCTIONS WILL BE FULFILLED; (3) TEST PROCEDURES DO NOT RESULT IN VALID TESTS OF ALL VALVES LISTED AS BEING TESTED; AND (4) VALVES FAILING LEAK.

ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT OPERATED AT POWER LEVELS UP TO 100% UNTIL OCTOBER 2, 1987, WHEN THE UNIT WAS SHUT DOWN TO REPAIR A PACKING LEAKS ON BOTH PRESSURIZER SPRAY VALVES. FOLLOWING OCTOBER 6, 1987. THE UNIT WAS HOLDING AT 50% POWER FOR STEAM GENERATOR CHEMISTRY AT THE END OF THE PERIOD.

LAST IE SITE INSPECTION DATE: 02/19/88

INSPECTION REPORT NO: 88009

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

STATUS OF SPENT FUEL STORAGE CAPABILITY

PRESSURIZED WATER REACTORS

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
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(l)	874	438(l)(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	80	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

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			
ST LUCIE 1	217	728	372	356		N/S	1993
ST LUCIE 2	217	1076	152	924		N/S	1993
SUMMER 1	157	1276	96	1180		N/S	2008
SURRY 1	157	1044(c)	901(c)	143(c)		N/S	1987
SURRY 2	157					N/S	1987
THREE MILE ISLAND 1	177	752	284	468		07-88	1991
THREE MILE ISLAND 2	177	442	0	442		N/S	
TROJAN	193	1408	425	983		04-88	1993
TURKEY POINT 3	157	1404	445	959(m)		N/S	1993
TURKEY POINT 4	157	1404	482	922		N/S	1993
VOGTLE 1	0	0	0	0		N/S	
WATERFORD 3	217	1088	0	1088		N/S	1993
WOLF CREEK 1	193	1340	0	1340		04-88	
YANKEE-ROWE 1	76	721	325	396		N/S	1993
ZION 1	193	2112(c)	1148(c)	964(c)		02-88	1995
ZION 2	193					10-88	1995

INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS(h)

MORRIS OPERATIONS	750 MTU(j)	315	385 MTU(j)	1490 MTU(j)	
NFS(i)	250 MTU	170 MTU	80 MTU		

(a) At each refueling outage approximately 1/3 of a PWR core and 1/4 of a BWR core is off-loaded.
(b) Some of these dates have been adjusted by staff assumptions.
(c) This is the total for both units.
(d) Plant not in commercial operation.
(e) Some spent fuel stored at Brunswick.
(f) Authorized a total 2772 BWR and 1232 PWRassemblies 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

STATUS OF SPENT FUEL STORAGE CAPABILITY

BOILING WATER REACTORS

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
BIG ROCK POINT 1	84	441	212	229		04-88	1995
BROWNS FERRY 1	764	3471	1288	2183		N/S	1993
BROWNS FERRY 2	764	3471	1161	2310(m)	1819	N/S	1993
BROWNS FERRY 3	764	3471	1004	2467(m)		N/S	1993
BRUNSWICK 1	560	1803	169PWR+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 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
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 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 PWRassemblies 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

(INCLUDES BOTH LICENSED AND NON-LICENSED UNITS)

REACTOR YEARS OF EXPERIENCE

	YEARS	1ST ELEC GENERATE	UNIT
**********	-----	--------	----
* LICENSED *	13.47	08/01/74	ARKANSAS 1
* OPERATING *	.62	08/17/87	BEAVER VALLEY 2
* ELECTRICAL *	14.46	10/15/73	BROWNS FERRY 1
* PRODUCING *	11.32	12/04/76	BRUNSWICK 1
* UNITS *	1.15	02/06/87	BYRON 2
**********	11.32	12/07/76	CALVERT CLIFFS 2
	.94	04/24/87	CLINTON 1
	13.89	05/10/74	COOPER STATION
	3.39	11/11/84	DIABLO CANYON 1
	16.70	07/22/71	DRESDEN 3
	6.85	05/25/81	FARLEY 2
	14.60	08/25/73	FORT CALHOUN 1
	3.45	10/20/84	GRAND GULF 1
	13.39	11/11/74	HATCH 1
	14.77	06/26/73	INDIAN POINT 2
	5.57	09/04/82	LASALLE 1
	15.39	11/08/72	MAINE YANKEE
	17.34	11/29/70	MILLSTONE 1
	17.08	03/05/71	MONTICELLO
	9.96	04/17/78	NORTH ANNA 1
	14.32	12/05/73	OCONEE 2
	16.25	12/31/71	PALISADES
	.34	11/28/87	PALO VERDE 3
	1.28	12/19/86	PERRY 1
	15.66	08/02/72	POINT BEACH 2
	15.97	04/12/72	QUAD CITIES 1
	2.33	12/03/85	RIVER BEND 1
	6.83	06/03/81	SALEM 2
	4.52	09/25/83	SAN ONOFRE 3
	.01	03/30/88	SOUTH TEXAS 1
	5.37	11/16/82	SUMMER 1
	5.37	11/16/82	SUSQUEHANNA 1
	12.27	12/23/75	TROJAN
	15.53	09/20/72	VERMONT YANKEE 1
	3.04	03/18/85	WATERFORD 3
	14.76	06/28/73	ZION 1
	9.26	12/26/78	ARKANSAS 2
	25.31	12/03/62	BIG ROCK POINT 1
	13.59	08/28/74	BROWNS FERRY 2
	12.93	04/29/75	BRUNSWICK 2
	3.44	10/24/84	CALLAWAY 1
	3.19	01/22/85	CATAWBA 1
	13.14	02/10/75	COOK 1
	11.17	01/30/77	CRYSTAL RIVER 3
	2.45	10/20/85	DIABLO CANYON 2
	13.87	05/19/74	DUANE ARNOLD
	1.53	09/21/86	FERMI 2
	11.30	12/11/76	FORT ST VRAIN
	20.65	08/07/67	HADDAM NECK
	9.52	09/22/78	HATCH 2
	11.93	04/27/76	INDIAN POINT 3
	3.95	04/20/84	LASALLE 2
	6.75	06/30/81	MCGUIRE 1
	12.39	11/09/75	MILLSTONE 2
	18.39	11/09/69	NINE MILE POINT 1
	7.60	08/25/80	NORTH ANNA 2
	13.58	09/01/74	OCONEE 3
	2.81	06/10/85	PALO VERDE 1
	14.12	02/18/74	PEACH BOTTOM 2
	15.70	07/19/72	PILGRIM 1
	14.32	12/04/73	PRAIRIE ISLAND 1
	15.86	05/23/72	QUAD CITIES 2
	17.51	09/26/70	ROBINSON 2
	20.71	07/16/67	SAN ONOFRE 1
	7.69	07/22/80	SEQUOYAH 1
	11.90	05/07/76	ST LUCIE 1
	15.74	07/04/72	SURRY 1
	3.75	07/03/84	SUSQUEHANNA 2
	15.41	11/02/72	TURKEY POINT 3
	1.02	03/27/87	VOGTLE 1
	2.80	06/12/85	WOLF CREEK 1
	14.26	12/26/73	ZION 2
	11.80	06/14/76	BEAVER VALLEY 1
	.72	07/12/87	BRAIDWOOD 1
	11.55	09/12/76	BROWNS FERRY 3
	3.09	03/01/85	BYRON 1
	13.24	01/03/75	CALVERT CLIFFS 1
	1.87	05/18/86	CATAWBA 2
	10.03	03/22/78	COOK 2
	10.59	08/28/77	DAVIS-BESSE 1
	17.97	04/13/70	DRESDEN 2
	10.62	08/18/77	FARLEY 1
	13.16	02/01/75	FITZPATRICK
	18.33	12/02/69	GINNA
	1.20	01/19/87	HARRIS 1
	1.67	08/01/86	HOPE CREEK 1
	13.98	04/08/74	KEWAUNEE
	2.97	04/13/85	LIMERICK 1
	4.86	05/23/83	MCGUIRE 2
	2.13	02/12/86	MILLSTONE 3
	.65	08/08/87	NINE MILE POINT 2
	14.90	05/06/73	OCONEE 1
	18.52	09/23/69	OYSTER CREEK 1
	1.87	05/20/86	PALO VERDE 2
	13.58	09/01/74	PEACH BOTTOM 3
	17.40	11/06/70	POINT BEACH 1
	13.28	12/21/74	PRAIRIE ISLAND 2
	13.47	10/13/74	RANCHO SECO 1
	11.27	12/25/76	SALEM 1
	5.53	09/20/82	SAN ONOFRE 2
	6.27	12/23/81	SEQUOYAH 2
	4.80	06/13/83	ST LUCIE 2
	15.06	03/10/73	SURRY 2
	13.79	06/19/74	THREE MILE ISLAND 1
	14.78	06/21/73	TURKEY POINT 4
	3.85	05/27/84	WASHINGTON NUCLEAR 2
	27.39	11/10/60	YANKEE-ROWE 1

TOTAL 1085.48 YRS

	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
	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

TOTAL 93.78 YRS

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* RESEARCH *
* REACTORS *
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NON-POWER REACTORS IN THE U.S.

STATE	CITY	LICENSEE	REACTOR TYPE	DOCKET	LICENSE NUMBER	DATE OL 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

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NON-POWER REACTORS IN THE U.S.

STATE	CITY	LICENSEE	REACTOR TYPE	DOCKET	LICENSE NUMBER	DATE OF ISSUED	AUTHORIZED POWER LEVEL (KW)
MASSACHUSETTS	LOWELL	UNIVERSITY OF LOWELL	GE	50-223	R-125	12-24-74	1000.0
	WORCESTER	WORCESTER POLYTECHNIC INSTITUTE	GE	50-134	R-61	12-16-59	10.0
MICHIGAN	ANN ARBOR	UNIVERSITY OF MICHIGAN	FOOL	50-002	R-28	09-13-57	2000.0
	EAST LANSING	MICHIGAN STATE UNIVERSITY	TRIGA MARK I	50-294	R-114	03-21-69	250.0
	MIDLAND	DOW CHEMICAL COMPANY	TRIGA	50-264	R-108	07-03-67	100.0
MISSOURI	COLUMBIA	UNIVERSITY OF MISSOURI, COLUMBIA	TANK	50-186	R-103	10-11-66	10000.0
	ROLLA	UNIVERSITY OF MISSOURI	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	MANHATTAN COLLEGE - PYHSICS DEPT.	TANK	50-199	R-94	03-24-64	0.0001
	BUFFALO	STATE UNIVERSITY OF NEW YORK	PULSTAR	50-057	R-77	03-24-61	2000.0
	ITHACA	CORNELL UNIVERSITY	TRIGA MARK II	50-157	R-80	01-11-62	100.0
	ITHACA	CORNELL UNIVERSITY	ZPR	50-097	R-89	12-11-62	0.1
	NEW YORK	COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	TRIGA MARK II	50-208	R-128	04-14-77	250.0
	TUXEDO	CINTICHEM INC.	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	OREGON STATE UNIVERSITY	TRIGA MARK II	50-243	R-106	03-07-67	1000.0
	PORTLAND	REED COLLEGE	TRIGA MARK I	50-288	R-112	07-02-68	250.0
PENNSYLVANIA	UNIVERSITY PARK	PENNSYLVANIA STATE UNIVERSITY	TRIGA MK. III	50-005	R-2	07-08-55	1000.0
RHODE ISLAND	NARRAGANSETT	RHODE ISLAND NUCLEAR SCIENCE CENTER	GE POOL	50-193	R-95	07-21-64	2000.0
TENNESSEE	MEMPHIS	MEMPHIS STATE UNIVERSITY	AGN-201 #108	50-538	R-127	12-10-76	0.0001
TEXAS	AUSTIN	UNIVERSITY OF TEXAS	TRIGA MARK I	50-192	R-92	08-26-63	250.0
	COLLEGE STATION	TEXAS A&M UNIVERSITY	AGN-201M #106	50-059	R-23	08-26-57	0.005
	COLLEGE STATION	TEXAS A&M UNIVERSITY	TRIGA	50-128	R-83	12-07-61	1000.0
UTAH	PROVO	BRIGHAM YOUNG UNIVERSITY	L-77	50-262	R-109	09-07-67	0.01
	SALT LAKE CITY	THE UNIVERSITY OF UTAH	TRIGA MARK I	50-407	R-126	09-30-75	100.0

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NON-POWER REACTORS IN THE U.S.

STATE	CITY	LICENSEE	REACTOR TYPE	DOCKET	LICENSE NUMBER	DATE OL ISSUED	AUTHORIZED POWER LEVEL (KW)
UTAH	SALT LAKE CITY	UNIVERSITY OF UTAH	AGN-201M #107	50-072	R-25	09-12-57	0.005
VIRGINIA	BLACKSBURG	VIRGINIA POLYTECHNIC INSTITUTE	UTR-10	50-124	R-62	12-18-59	100.0
	CHARLOTTESVILLE	UNIVERSITY OF VIRGINIA	CAVALIER	50-396	R-123	09-24-74	0.1
	CHARLOTTESVILLE	UNIVERSITY OF VIRGINIA	POOL	50-062	R-66	06-27-60	2000.0
	LYNCHBURG	BABCOCK & WILCOX COMPANY	LPR	50-099	R-47	09-05-58	1000.0
WASHINGTON	PULLMAN	WASHINGTON STATE UNIVERSITY	TRIGA	50-027	R-76	03-06-61	1000.0
	SEATTLE	UNIVERSITY OF WASHINGTON	ARGONAUT	50-139	R-73	03-31-61	100.0
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1. REPORT NUMBER (Assigned by TIDC and Vol. No., if any)
NUREG-0020, Volume 12, No. 4

2. TITLE AND SUBTITLE
Licensed Operating Reactors
Status Summary Report

3. LEAVE BLANK

4. DATE REPORT COMPLETED
MONTH: May
YEAR: 1988

5. AUTHOR(S)
Ina Schwartz

6. DATE REPORT ISSUED
MONTH: May
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. FIN 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)
March 1988

12. SUPPLEMENTARY NOTES
Status Summary Report

13. ABSTRACT (200 words or less)

The OPERATING UNITS STATUS REPORT - LICENSED OPERATING REACTORS provides data on the operation of nuclear units as timely and accurately as possible. This information is collected by the Office of Administration and Resources Management from the Headquarters staff of NRC's Office of Enforcement (OE), from NRC's Regional Offices, and from utilities. The three sections of the report are: monthly highlights and statistics for commercial operating units, and errata from previously reported data; a compilation of detailed information on each unit, provided by NRC's Regional Offices, OE Headquarters and the utilities; and an appendix for miscellaneous information such as spent fuel storage capability, reactor-years of experience and non-power reactors in the U. S. It is hoped the report is helpful to all agencies and individuals interested in maintaining an awareness of the U. S. energy situation as a whole.

14. DOCUMENT ANALYSIS - a. KEYWORDS/DESCRIPTORS
Licensed Operating Reactors
Commercial Operating Units

b. IDENTIFIERS/OPEN-ENDED TERMS

15. AVAILABILITY STATEMENT

16. SECURITY CLASSIFICATION
(This page)
(This report)

17. NUMBER OF PAGES

18. PRICE

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