NUREG-0020 Vol. 8, No. 10 October 1984

# LICENSED OPERATING REACTORS

## STATUS SUMMARY REPORT DATA AS OF 09-30-84

UNITED STATES NUCLEAR REGULATORY COMMISSION



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NUREG-0020 Vol. 8, No. 10 October 1984

## LICENSED OPERATING REACTORS

## STATUS SUMMARY REPORT DATA AS OF 09-30-84

Manuscript Completed: November 1984 Date Published: November 1984

OFFICE OF RESOURCE MANAGEMENT U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555



#### AUTHORIZATION AND CLEARANCE

The U.S. Nuclear Regulatory Commission's Office of Resource Management publishes this month status report "as part of the reporting requirements in Section 50.36 of 10 CFR Part 50 under GAO Clearance Number B-180225, with an expiration date of September 30, 1981," as stated in the October 3, 1978 letter from John M. Lovelady, Assistant Director, General Government Division, U.S. General Accounting Office, to J.M. Felton, Director, Division of Rules and Records, U.S. Nuclear Regulatory Commission

\*Extended to April 30, 1985 by OMB Directive 3150-0011.

#### 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 Resource 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 <u>actual</u> vs. <u>potential</u> energy production on Page 1-2 are computed using actual data for the period of consideration. The percentages listed in power generation on Page 1-2 are computed as an arithmetic average. The factors for the life-span of each unit (the "Cumulative" column) are reported by the utility and are not entirely re-computed by NRC. Utility power production data is checked for consistency with previously submitted statistics.

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

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ARKANSAS 1 THROUGH ZION 2

2-002 through 2-374

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#### GLOSSARY

The net electrical energy generated during the AVERAGE DAILY POWER LEVEL day (measured from 0001 to 2400 hours inclusive) (Mula) in megawatts hours, divided by 24 hours.

(MW+)

FORCED OUTAGE

The maximum thermal power of the reactor authorized LICENSED THERMAL POWER by the NRC, expressed in megawatts.

Date unit was declared by utility owner to be DATE OF COMMERCIAL OPERATION 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.

The nominal net electrical output of the unit DESIGN ELECTRICAL RATING specified by the utility and used for the purpose (DER) (NET MWe) of plant design.

> An outage required to be initiated no later than the weekend following discovery of an offnormal condition.

The clock hours during the report period that a FORCED OUTAGE HOURS unit is unavailable due to forced cutages.

Electrical output of the unit during the report GROSS ELECTRICAL ENERGY period as measured at the output terminals of the GENERATED (MWH) turbine generator, in megawatts hours.

The clock hours from the beginning of a specified GROSS HOURS situation until its end. For outage durations, the clock hours during which the unit is not in power production.

The thermal energy produced by the unit during the GROSS THERMAL ENERGY GENERATED report period as measured or computed by the (MWH) licensee in megawatt hours.

Also, "Unit Service Hours." The total clock hours HOURS GENERATOR ON-LINE 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.

For units in power ascension at the end of the period, HOURS IN REPORTING 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.

#### GLOSSARY (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.

#### GLOSSARY (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

Reactor Available Hours x 100 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

UNIT

Hours Reactor Critical x 100 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.

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.)

PAGE iv

#### GLOSSARY (continued)

U	NIL	AVAILA	BILITY	FACTOR	

Unit Available Hours x 100 Period Hours

UNIT CAPACITY FACTORS

- Using DER

- Using Licensed Thermal Power <u>Gross Thermal Energy Generated x 100</u> Period Hours x LIc. Thermal Power
- Using Nameplate Rating
- Gross Electrical Energy Generated x 100 Period Hours x Nameplate Rating
- Net Electrical Energy Generated x 100 Period Hours x DER
- Using MDC Gross <u>Gross Electrical Energy Generated x 100</u> Period Hours x MDC Gross
- Using MDC Net <u>Net Electrical Energy Generated x 100</u> Period Hours x 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	Forced Outage Hours Unit Service Hours + 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	Unit Service Hours x 100 Period Hours
UNIT SERVICE HOURS	See "Hours Generator On-Line."

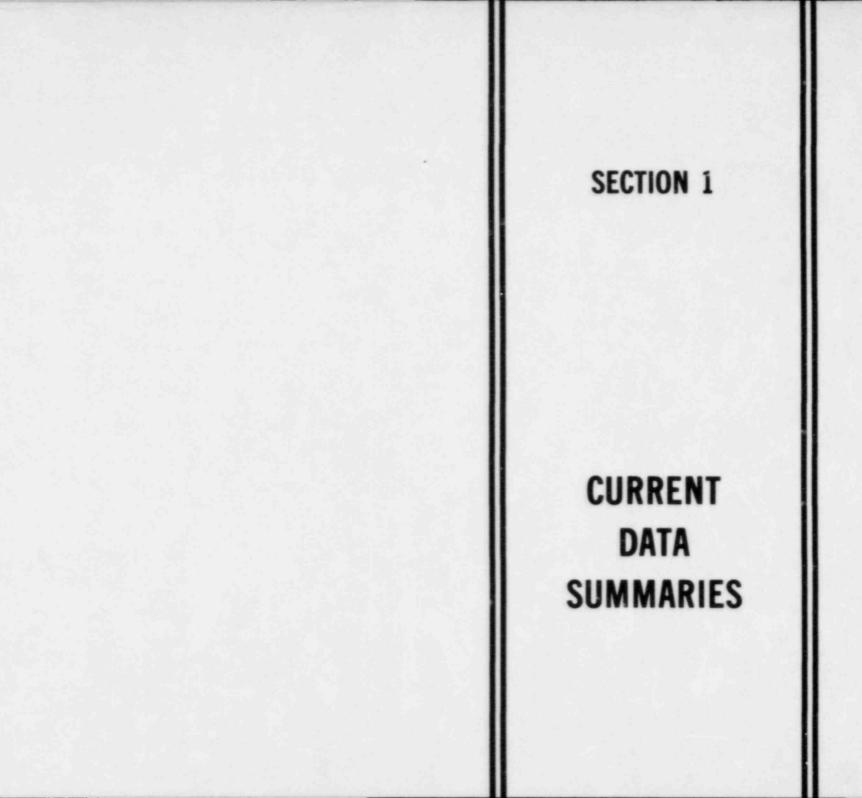
#### NOTE:

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

PAGE

ARKANSAS 1 ARKANSAS 2 BEAVER VALLEY 1 BIG ROCK POINT 1 BROWNS FERRY 1 BROWNS FERRY 2 BROWNS FERRY 3 BRJNSWICK 1 BRUNSWICK 2 CALVERT CLIFFS 1 CALVERT CLIFFS 2 COOK 1 COOPER STATION CRYSTAL RIVER 3 DAVIS-BESSE 1 DRESDEN 2 DRESDEN 2 DRESDEN 3 DUANE ARNOLD FARLEY 1 FARLEY 2 FITZPATRICK FORT CALHOUN 1 FORT ST VRAIN GINNA HADDAM NECK HATCH 1 HATCH 2 INDIAN POINT 2 INDIAN POINT 3 KEWAUNEE LASALLE 1 LASALLE 2 MAINE YANKEE MCGUIRE 1 MCGUIRE 1 MCGUIRE 2 MILLSTONE 1 MILLSTONE 1	2-002 2-012 2-012 2-020 2-020 2-026 2-032 2-038 2-050 2-054 2-058 2-058 2-064 2-0682 2-076 2-076 2-099 2-0994 2-0994 2-0994 2-0994 2-0994 2-0994 2-106 2-110 2-120 2-124 2-130 2-134 2-134 2-150 2-154 2-150 2-154 2-164 2-164 2-164 2-164 2-164 2-164 2-164 2-176	NORTH ANNA 1 NORTH ANNA 2 OCONEE 1 OCONEE 2 OCONEE 3 OYSTER CREEK 1 PALISADES PEACH BOTTOM 2 PEACH BOTTOM 3 PILGRIM 1 POINT BEACH 1 POINT BEACH 1 POINT BEACH 2 PRAIRIE ISLAND 2 QUAD CITIES 1 QUAD CITIES 2 RANCHO SECO 1 ROBINSON 2 SALEM 1 SALEM 2 SAN ONOFRE 1 SAN ONOFRE 1 SAN ONOFRE 3 SEQUOYAH 1 SEQUOYAH 2 ST LUCIE 2 SUMMER 1 SURRY 1 SURRY 1 SURRY 2 SUSQUEHANNA 2 THREE MILE ISLAND 1 TROJAN TURKEY POINT 3 TURKEY POINT 4 VERMONT YANKEE 1 WASHINGTON NUCLEAR 2 YANKEE-ROWE 1 ZION 1 ZION 2	2-188 2-196 2-200 2-200 2-200 2-220 2-220 2-22222 2-222222
MCGUIRE 2 MILLSTONE 1 MILLSTONE 2 MONTICELLO NINE MILE POINT 1	2-168 2-172 2-176 2-180	VERMONT YANKEE 1 WASHINGTON NUCLEAR 2 YANKEE-ROWE 1 ZION 1 ZION 2	2-344 2-348 2-352 2-358 2-362
Hans Hass Foart I		Sector S	E 300



#### MONTHLY HIGHLIGHTS

REACTORS *	(a) 3 IN POWER ASCENSION	capacity; design elec. rati used if MDC not determined
SUSQUEHAN	2 1100 licensed for operation 2. HUMBOLDT BAY65 DIABLO Which are shut down 3. TMI 2906 CALLA indefinitely	DATE DER D GULF 1 06/16/82 1250 D CANYON 104/19/84 1084 WAY 1 06/11/84 1188
POWER *	REPORT MONTH         PREVIOUS MONTH           1. GROSS ELECTRICAL (MWHE)	YEAR-TO-DATE 253,089,808 240,650,990 63.8
	1. ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD27,390,030 NET	% OF POTENTIAL PRODUCTION 61.2
	2. ENERGY NOT PRODUCED DUE TO SCHEDULED OUTAGES (NET) 9,018,628 MWHe	20.2
	3. ENERGY NOT PRODUCED DUE TO FORCED OUTAGES (NET) 5,223,783 MWHe	11.7
***********	4. ENERGY NOT PRODUCED FOR OTHER REASONS (NET)	6.9
OTENTIAL ENERGY	PRODUCTION IN THIS PERIOD BY UNITS IN COMMERCIAL OPERATION 44,724,960 MWHe (Using Maximum Dependable Capacity Net)	
	5. ENERGY NOT PRODUCED DUE TO NRC-REQUIRED OUTAGES	0 UNIT(S) WITH NRC RESTRICTION
OUTAGE * DATA *	1. FORCED OUTAGES DURING REPORT PERIOD 51 6,720.7 11.8 2. SCHEDULED OUTAGES DURING REPORT PERIOD 31 11,771.5 20.7	MWHE LOST PRODUCTION 5,223,783 9,018,628
***********	TOTAL 82 18,492.2 32.5	

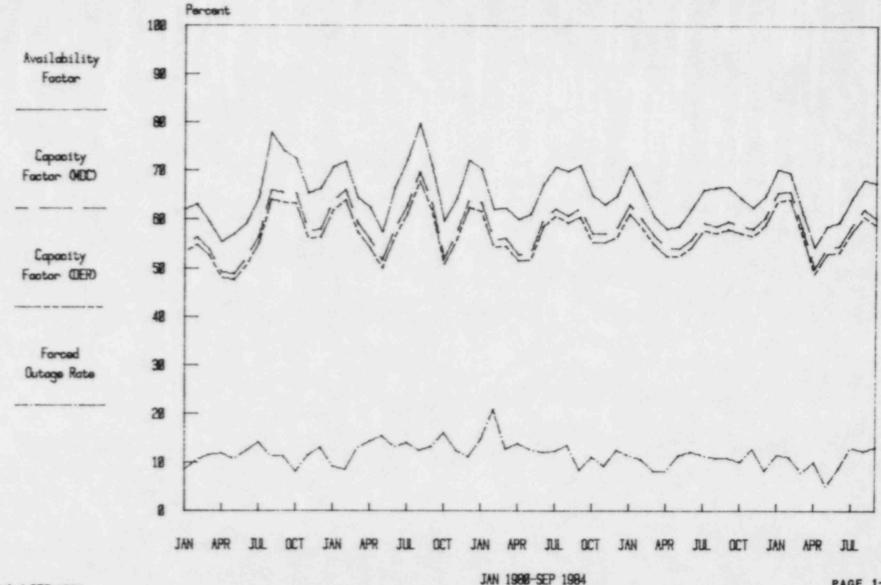
MWHE LOST PRODUCTION = Down time X maximum dependable capacity net

Report Period SEP 1984

PAGE 1-2

#### MONTHLY HIGHLIGHTS

************** * REASONS * * FOR * * SHUTDOWNS *	<ul> <li>B - Maintenance o</li> <li>C - Refueling</li> <li>D - Regulatory Re</li> <li>E - Operator Trai</li> <li>F - Administrativ</li> <li>G - Operational E</li> </ul>	strictio	n icense Examination	· · · ·	UMBER 33 11 21 1 0 1 5 10	HOURS LOST 4,459.7 1,497.6 10,352.0 720.0 0.0 17.9 254.4 1,190.6			
**************************************	FORT ST VRAIN	MDC	(MWe Net) POWER 330 280	TOTAL	82 We Net	18,492.2 ) TYPE Self-impor	sed		
************* * SHUTDOWNS * * GREATER * * THAN 72 HRS * * EACH * *****	UNIT BIG ROCK POINT 1 BRUNSWICK 2 DRESDEN 3 HADDAM NECK NORTH ANNA 1 PEACH BOTTOM 2 ROBINSON 2 SEQUOYAH 2 THREE MILE ISLAND	REASON A C C C C C C	UNIT BROWNS FERRY 2 CALVERT CLIFFS 2 FARLEY 2 INDIAN POINT 2 NORTH ANNA 2 PILGRIM 1 SALEM 1 ST LUCIE 1 TROJAN	REASON C A H C C C A H	COOF FIT. LA OYS PRA SAN ST	T WNS FERRY 3 PER STATION ZPATRICK CROSSE TER CREEK 1 IRIE ISLAND 2 ONOFRE 1 LUCIE 2 MONT YANKEE 1	REASON C B A C C B B,H	UNIT BRUNSWICK 1 DAVIS-BESSE 1 FORT ST VRAIN MONTICELLO PALISADES RANCHO SECO 1 SEQUOYAH 1 SURRY 1 ZION 1	REASON H C A C B,A A A C



### Unit Availability, Capacity, Forced Outage Avg. Unit Percentage as of 19-39-84

Report Period SEP 1984

PAGE 1-4

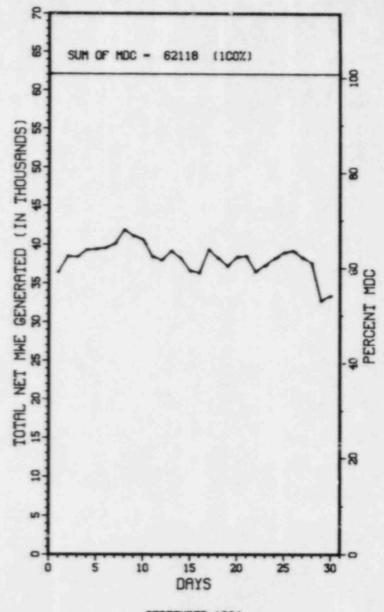
#### AVERAGE DAILY POWER LEVEL FOR ALL COMMERCIALLY OPERATING UNITS

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.

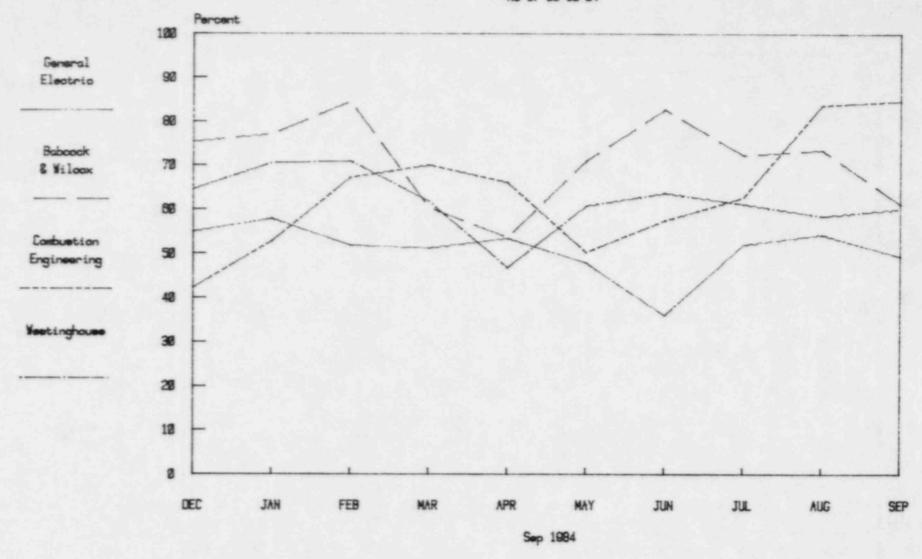
The scale on the left vertical axis runs in 1,000 MWe increments from 0 to 55,000 MWe (Net). The right vertical axis shows the percentage in 10% increments, up to 100% of the "SUM OF MDC".

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.



SEPTEMBER 1984

Vendor Average Capacity Factors



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 SEP 1984

PAGE 1-6

#### AVERAGE CAPACITY FACTORS BY VENDORS

	88.7 BROWNS FE 0.0 BRUNSWICK 62.2 DUANE ARN 55.7 LASALLE 1 0.0 OYSTER CR 92.7 QUAD CITI	2 28.7 C OLD 44.5 F 97.7 M EEK 1 0.0 P ES 1 93.9 Q		76.7 69.4 0.0 99.5 92.9	DRESDEN 2 HATCH 1 MONTICELLO PEACH BOTTOM 3 SUSQUEHANNA 1	58.4 54.7 96.9 0.0 49.0	BRUNSWICK 1 DRESDEN 3 HATCH 2 NINE MILE POINT 1 PILGRIM 1 VERMONT YANKEE 1
* BABCOCK & * WILCOX *	CFMDC 81.7 ARKANSAS 92.6 OCONEE 2		RYSTAL RIVER 3 CONEE 3	CFMDC 23.5 0.0	DAVIS-BESSE 1 RANCHO SECO 1	CFMDC 97.9 0.0	OCONEE 1 THREE MILE ISLAND 1
***************** * COMBUSTION * * ENGINEERING *	CFMDC 88.1 ARKANSAS 102.2 MAINE YAN 98.3 SAN DNOFR	CFMDC 2 103.4 C KEE 94.0 M E 3 73.8 S	ALVERT CLIFFS 1 ILLSTONE 2 T LUCIE 1	CFMDC 77.6 13.6 66.4	CALVERT CLIFFS 2 PALISADES ST LUCIE 2	CFMDC 95.7 97.6	FORT CALHOUN 1 SAN ONOFRE 2
************* * WESTINGHOUSE* ******	CFMDC 84.2 BEAVER VA 49.0 FARLEY 2 97.1 INDIAN PO 1.4 NORTH ANN 99.1 PRAIRIE I 80.5 SALEM 2 69.8 SUMMER 1 100.1 TURKEY PO 95.6 ZION 2	CFMDC LLEY 1 94.6 C 100.5 G INT 3 103.1 K A 1 0.0 N SLAND 1 6.3 P 0.0 S 63.8 S INT 3 87.2 T	OOK 1 INNA EWAUNEE ORTH ANNA 2 RAIRIE ISLAND 2 AN ONOFRE 1 URRY 1 URRY 1 URKEY POINT 4	CFMDC 94.2 0.0 95.6 100.5 0.0 66.4 86.7 91.4	COOK 2 HADDAM NECK MCGUIRE 1 POINT BEACH 1 ROBINSON 2 SEQUOYAH 1 SURRY 2 YANKEE-ROWE 1	CFMDC 102.1 0.0 89.8 86.0 0.0 55.6 0.0 18.7	FARLEY 1 INDIAN POINT 2 MCGUIRE 2 POINT BEACH 2 SALEM 1 SEQUOYAH 2 TROJAN ZION 1
* OTHER INFO *	Units excluded BIG ROCK POIN DRESDEN 1	are: T Capaci depe vend	ty factor in thi	s page, den See the co computed by	oted as CFMDC, is a rresponding definit	function ion in th	of the net maximum e glossary. The
	THREE MILE IS	LAND 2		Potential E	lectrical Productio	n by Vend	or in this Month
		7,276,459	West PWRs 11,556,262 26,641 60.2	Comb Pl 5,517, 9,	475 2,978,33	7 2	ALL PWRs 0,052,074 42,450 65.6

Report Period SEP 1984

PAGE 1-7

#### MEMORANDA

THE FOLLOWING UNITS USE WEIGHTED AVERAGES TO CALCULATE CAPACITY FACTORS:

ITEM 22

ITEM 22 8 23

BIG ROCK POINT 1 CALVERT CLIFFS 1 & 2 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 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 BEAVER VALLEY 1 SAN ONOFRE 1 ITEM 24 ONLY

BIG ROCK POINT 1

Report Period SEP 1984

#### ERRATA

CORRECTIONS TO PREVIOUSLY REPORTED DATA

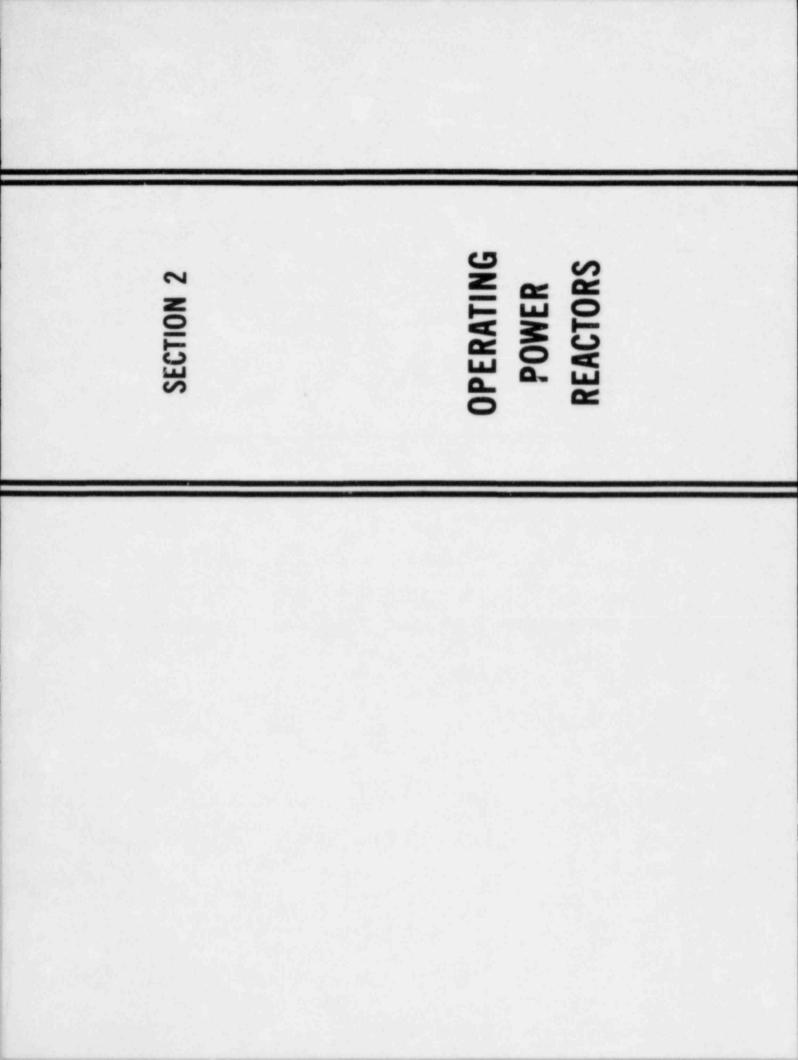
NOTE: THESE CHANGES ARE REFLECTED IN THE DATA CONTAINED IN THE CURRENT REPORT

REVISED MONTHLY HIGHLIGHTS

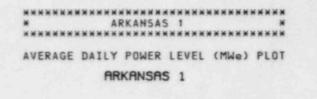
NONE

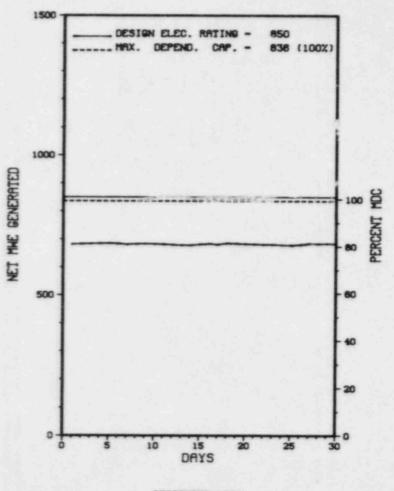
Report Period SEP 1984

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TUS	ING STAT	PERAT	Docket: 50-313	٤.,
720.0	+ On-line Hrs:	4_ Outage	Reporting Period:	2.
	964-3155	RTON (501)	Utility Contact: K. L. MC	3.
	2568	t):	Licensed Thermal Power (MM	4.
= 903	1003 X 0.9 :	e):	Nameplate Rating (Gross Ma	5.
	850	Net MWe):	Design Electrical Rating (	6.
	We):883	y (Gross M	Maximum Dependable Capacit	7.
	): 836	y (Net MWe	Maximum Dependable Capacit	8.
ons:	port, Give Reaso	ce Last Re	If Changes Occur Above Sir NONE	
	Any (Net MWe):	icted, If	Power Level To Which Restr	10.
		If Any:	Reasons for Restrictions,	11.
			NONE	
ULATIVE 5,770.0	YEAR CUMU 6,575.0 85	MONTH 720.0	Report Period Hrs	12.
8,379.7	5,944.4 58	720.0	Hours Reactor Critical	13.
5,044.0	0	. 0	Rx Reserve Shtdwn Hrs	14.
7,130.6	5,880.4 57	720.0	Hrs Generator On-Line	15.
817.5	0	. 0	Unit Reserve Shtdwn Hrs	16.
800,551	13,880,254 135,8	1,559,806	Gross Therm Ener (MWH)	17.
778,500	4,640,135 44,7	517,460	Gross Elec Ener (MWH)	18.
688,205	4,429,818 42,6	491,563	Net Elec Ener (MWH)	19.
66.6	89.4	100.0	Unit Service Factor	20.
67.6		100.0	Unit Avail Factor	21.
59.5	80.6	81.7	Unit Cap Factor (MDC Net)	22.
58.6		80.3	Unit Cap Factor (DER Net)	23.
15.2	1.0	. 0	Unit Forced Outage Rate	24.
0,239.1	61.0 10	. 0	Forced Outage Hours	25.
ion):	Type, Date, Durati	6 Months (	Shutdowns Sched Over Next	26.
1.1	12/22/84.	0/12/84 -	REFUELING & MAINTENANCE:	_
	Type, Date, Durati 12/22/84.	6 Months ( 0/12/84 -	Shutdowns Sched Over Next	26.





SEPTEMBER 1984

Report Period SEP 1984	UNIT SHUTDOWNS / R	E D U C T I O N S
No. Date Type Hours Reason	Method LER Number System Component	Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*\*\*\*\*\*\*\* ARKANSAS 1 OPERATED WITH NO OUTAGES OR REDUCTIONS DURING SEPTEMBER.

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)

#### 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

#### FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE......ARKANSAS POWER & LIGHT

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

CONTRACTOR

ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER... BABCOCK & WILCOX

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER ..... WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE..... IV

IE RESIDENT INSPECTOR.....B. JOHNSON

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

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

INSPECTION STATUS

#### INSPECTION SUMMARY

INSPECTION CONDUCTED JUNE 18-29, 1984 (84-19)

ROUTINE, UNANNOUNCED INSPECTION OF THE ONSITE LOW-LEVEL RADIOACTIVE WASTE (LLRW) FACILITY, IMPLEMENTATION OF 10 CFR PARTS 20.311 AND 61, LOW-LEVEL RADIOACTIVE WASTE (RW) DISPOSAL, RADIOACTIVE MATERIAL TRANSPORTATION PROGRAM, AND NONLICENSED TRAINING PROGRAM FOR ONSITE AND CORPORATE PERSONNEL.

WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JULY 1-31, 1984 (84-22)

ROUTINE, ANNOUNCED INSPECTION OF MAINTENANCE, SURVEILLANCE, OPERATIONAL SAFETY VERIFICATION, FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS, AND PREPARATION FOR REFUELING.

WITHIN THE AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JULY 9-13, 1984 (84-23)

ROUTINE, UNANNOUNCED INSPECTION OF THE AND EMERGENCY PREPAREDNESS PROGRAM, INCLUDING EMERGENCY DETECTION AND CLASSIFICATION, PROTECTIVE ACTION DECISIONMAKING, AND NOTIFICATION AND COMMUNICATIONS.

PI:GE 2-004

Report Period SEP 1984

Report Period SEP 1984

#### INSPECTION SUMMARY

WITHIN THE SCOPE OF THE INSPECTION, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JULY 23-27, 1984 (84-25) 50-368/84-25

ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIOACTIVE WASTE SYSTEMS INCLUDING: MANAGEMENT ORGANIZATIONS; TRAINING AND QUALIFICATIONS; RADIOACTIVE LIQUID AND GASEOUS EFFLUENT RELEASE; RECORDS AND REPORTS OF RADIOACTIVE EFFLUENTS; PROCEDURES FOR CONTROLLING EFFLUENT RELEASES; TESTING OF AIR CLEANING SYSTEMS; INSTRUMENTATION; REACTOR COOLANT WATER QUALITY; RADIOCHEMISTRY AND PLANT QUALITY CONTROLS; AND LICENSEE AUDITS OF RADIOCHEMISTRY ACTIVITIES.

WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

POWER LIMITED TO ABOUT 85% DUE TO ELEVATED 'A' STEAM GENERATOR + WATER LEVEL.

FACILITY ITEMS (PLANS AND PROCEDURES):

REFUELING OUTAGE SCHEDULED FOR 10/12/84

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER OPERATION

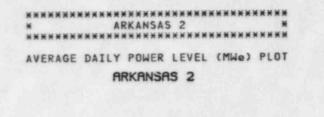
LAST IE SITE INSPECTION DATE: JULY 23-27, 1984 +

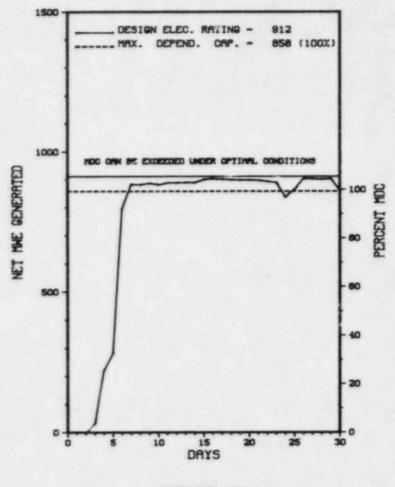
INSPECTION REPORT NO: 50-313/84-25 +

#### REPORTS FROM LICENSEE

NUMBER	DATE OF	DATE OF REPORT	SUBJECT		
		*********		 	 
NONE					

eporting Period: <u>09/01/8</u> tility Contact: <u>LINDY BR</u> icensed Thermal Power (MW ameplate Rating (Gross MW esign Electrical Rating ( aximum Dependable Capacit f Changes Occur Above Sin IONE ower Level To Which Restr ceasons for Restrictions,	AMLETT (50 Ht): Net MWe): Net MWe): Y (Gross M Y (Net MWe He Last Re Hicted, If	1) 964-3145 943 We): ): port, Give Any (Net MW	2815 912 897 858 Reasons:
icensed Thermal Power (MW ameplate Rating (Gross MW lesign Electrical Rating ( laximum Dependable Capacit daximum Dependable Capacit of Changes Occur Above Sin ONE	Ht): Net MWe): Ny (Gross M y (Net MWe ce Last Re ricted, If	943 We): port, Give Any (Net MW	2815 912 897 858 Reasons:
ameplate Rating (Gross MW lesign Electrical Rating ( laximum Dependable Capacit f Changes Occur Above Sin HONE cower Level To Which Restr	Net MWe): Net MWe): y (Gross M y (Net MWe ice Last Re icted, If	943 We): ): port, Give Any (Net MW	912 897 858 Reasons:
lesign Electrical Rating ( laximum Dependable Capacit daximum Dependable Capacit f Changes Occur Above Sin IONE Yower Level To Which Restr	Net MWe): y (Gross M y (Net MWe ice Last Re icted, If	We): ): port, Give Any (Net MW	912 897 858 Reasons:
laximum Dependable Capacit laximum Dependable Capacit f Changes Occur Above Sin IONE Yower Level To Which Restr	y (Gross M y (Net MWe ce Last Re icted, If	We): port, Give Any (Net MW	897 858 Reasons:
laximum Dependable Capacit f Changes Occur Above Sin IONE Yower Level To Which Restr	y (Net MWe ace Last Re ricted, If	aport, Give	858 Reasons:
f Changes Occur Above Sin IONE 'ower Level To Which Restr	ice Last Re	Any (Net MW	Reasons:
IONE 'ower Level To Which Restr	icted, If	Any (Net MW	
ower Level To Which Restr	icted, If		e):
			e):
leasons for Restrictions,	If Any:		
IONE			
leport Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 39,599.0
iours Reactor Critical	658.8	5,535.4	27,208.1
x Reserve Shtdwn Hrs			1,430.1
irs Generator On-Line	654.3	5,369.5	26,319.8
Unit Reserve Shtdwn Hrs		. 0	75.0
Gross Therm Ener (MWH)	1,715,685	13,839,424	66,383,964
Gross Elec Ener (MWH)	570,822	4,606,135	21,623,086
Net Elec Ener (MWH)	544,498	4,393,715	20,600,055
Unit Service Factor	90.9	81.7	66.5
Unit Avail Factor	90.9	81.7	66.7
Unit Cap Factor (MDC Net)	88.1	77.9	60.6
Unit Cap Factor (DER Net)	82.9	73.3	57.0
Unit Forced Outage Rate	9.1	7.8	18.1
Forced Outage Hours	65.7	454.3	5,832.8
	6 Months	(Type,Date,D	)uration):
	eport Period Hrs ours Reactor Critical x Reserve Shtdwn Hrs Irs Generator On-Line Init Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Het Elec Ener (MWH) Het Elec Ener (MWH) Het Elec Ener (MWH) Init Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Outage Rate Forced Outage Hours Shutdowns Sched Over Next HONE	ONE         eport Period Hrs       MONTH         ours Reactor Critical       658.8         x Reserve Shtdwn Hrs       .0         Irs Generator On-Line       654.3         Init Reserve Shtdwn Hrs       .0         Iross Therm Ener (MWH)       1,715,685         Gross Therm Ener (MWH)       570,822         Iet Elec Ener (MWH)       574,4298         Init Service Factor       90.9         Init Cap Factor (MDC Net)       88.1         Init Cap Factor (DER Net)       82.9         Init Forced Outage Rate       9.1         Forced Outage Hours       65.7         Shutdowns Sched Over Next 6 Months	MONTH 720.0YEAR 6,575.0Jours Reactor Critical658.85,535.4Jac Reserve Shtdwn Hrs.0.0Jac S Generator On-Line654.35,369.5Jait Reserve Shtdwn Hrs.0.0Jars Generator On-Line.0.0Jars Generator On-Line.0.0Jars S Therm Ener (MWH)1,715,68513,839,424Jaross Therm Ener (MWH).715,68513,839,424Jaross Elec Ener (MWH).570,8224,606,135Jet Elec Ener (MWH).544,4984,393,715Jait Service Factor.90.9.81.7Jait Avail Factor.90.9.81.7Jait Cap Factor (DER Net).88.1.77.9Jait Forced Outage Rate.9.1.7.8Forced Dutage Hours.65.7.454.3Shutdowns Sched Over Next 6 Months (Type, Date, D





SEPTEMBER 1984

Report	Period SI	EP 198	84		UN	IT	SHU	T	DOL	4 N	s	/ 8	E	D	U (	c	TI	0	N	s	**************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	5	ysten		omp	onent	=			C	aus	se i	8	Cori	rective Action to Prevent Recurrence	
8408	08/28/84	F	65.7	A	4	2-84	248		ZZ		ZZZ	ZZZ	WE	ENT	T	0 (	CSD	) T	0	REP	UE TO A DROPPED CEA. THE UNIT THEN AIR A FAULTY RCP SEAL AND A LEAKING NUAY.	

\*\*\*\*\*\*\*\*\*\*\*\* ARKANSAS 2 OPERATED WITH 1 OUTAGE FOR EQUIPMENT FAILURE.

Type	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Error C-Refueling H-Othor 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)

\*\*\*\*\*\* ARKANSAS 2 14 Report Period SEP 1984 FACILITY DATA \*\*\*\*\*\* UTILITY & CONTRACTOR INFORMATION FACILITY DESCRIPTION UTILITY LOCATION LICENSEE ..... ARKANSAS POWER & LIGHT STATE.....ARKANSAS CORPORATE ADDRESS.....NINTH & LOUISIANA STREETS LITTLE ROCK, ARKANSAS 72203 DIST AND DIRECTION FROM CONTRACTOR NEAREST POPULATION CTR. .. 6 MI WNW OF ARCHITECT/ENGINEER.....BECHTEL RUSSELLVILLE, AR NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING TYPE OF REACTOR ..... PWR CONSTRUCTOR.....BECHTEL DATE INITIAL CRITICALITY., DECEMBER 5, 1978 TURBINE SUPPLIER ...... GENERAL ELECTRIC DATE ELEC ENER 1ST GENER. .. DECEMBER 26, 1978 REGULATORY INFORMATION DATE COMMERCIAL OPERATE .... MARCH 26, 1980 IE REGION RESPONSIBLE..... IV CONDENSER COOLING METHOD ... COOLING TOWER IE RESIDENT INSPECTOR. ..... W. JOHNSON CONDENSER COOLING WATER.... DARDANELLE RESERVOIR LICENSING PROJ MANAGER.....R. LEE ELECTRIC RELIABILITY 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 ON JUNE 18-29, 1984 (84-19)

ROUTINE, UNANNOUNCED INSPECTION OF THE ONSITE LOW-LEVEL RADIOACTIVE WASTE (LLRW) FACILITY, IMPLEMENTAION OF 10 CFR PARTS 20.311 AND 61. LOW-LEVEL RADIOACTIVE WASTE (RW) DISPOSAL, RADIOACTIVE MATERIAL TRANSPORTATION PROGRAM, AND NONLICENSED TRAINING PROGRAM FOR ONSITE AND CORPORATE PERSONNEL.

WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JULY 1-31, 1984 (84-22)

ROUTINE, ANNOUNCED INSPECTION OF OPERATIONAL SAFETY VERIFICATION, MAINTENANCE, SURVEILLANCE, AND FOLLOWUP ON PREVIOUSLY IDENTIFIED ITEMS.

WITHIN THE AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JULY 9-13, 1984 (84-23)

ROUTINE, UNANNOUNCED INSPECTION OF THE AND EMERGENCY PREPAREDNESS PROGRAM INCLUDING EMERGENCY DETECTION AND CLASSIFICATION, PROTECTIVE ACTION DECISIONMAKING, AND NOTIFICATION AND COMMUNICATIONS.

Report Period SEP 1984

#### INSPECTION SUMMARY

WITHIN THE SCOPE OF THE INSPECTION, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED JULY 23-27, 1984 (84-25)

ROUTINE, UNANNOUNCED INSPECTION OF THE LICENSEE'S RADIOACTIVE WASTE SYSTEMS INCLUDING: MANAGEMENT ORGANIZATIONS; TRAINING AND QUALIFICATIONS; RADIOACTIVE LIQUID AND GASEOUS EFFLUENT RELEASE; RECORDS AND REPORTS OF RADIOACTIVE EFFLUENTS; PROCEDURES FOR CONTROLLING EFFLUENT RELEASES; TESTING OF AIR CLEANING SYSTEMS; INSTRUMENTATION; REACTOR COOLANT WATER QUALITY; RADIOCHEMISTRY AND PLANT QUALITY CONTROLS; AND LICENSEE AUDITS OF RADIOCHEMISTRY ACTIVITIES.

WITHIN THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

#### UTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

POWER OPERATION

LAST IE SITE INSPECTION DATE: JULY 23-27, 1984 +

INSPECTION REPORT NO: 50-368/84-25 +

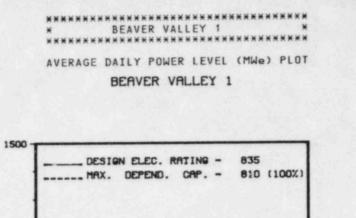
REPORTS FROM LICENSEE

Report Period SEP 1984

IUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
4-017-00	7-13-84	8-13-84	DEGRADED FIRE BARRIER
4-018-00	6-18-84	8-20-84	CATEGORY "E" VALVE IMPROPERLY ALIGNED
4-019-00	7-20-84	8-20-84	MANUAL REACTOR TRIP FOLLOWING TRANSFER OF INVERTER
4-020-00	7-26-84	8-29-84	REACTOR TRIP ON HIGH STEAM GENERATOR LEVEL
4-021-00	7-28-84	8-29-84	REACTOR TRIP ON HIGH STEAM GENERATOR LEVEL
84-025 00	7-27-84	9-10-84	CPC CHANNEL "D" RTD CALIBRATIO: AND RESPONSE TIME DEGRATATION

PAGE 2-011 THIS PAGE INTENTIONALLY LEFT BLANK ł \$

	Utility Contact: <u>J. L. HO</u> Licensed Thermal Power (MW			2660
	Nameplate Rating (Gross MW		1026 X	0.9 = 923
6.	Design Electrical Rating (			835
7.	Maximum Dependable Capacit			860
1.1	Maximum Dependable Capacit			
	If Changes Occor Above Sin			
	NONE			
0	Power Level To Which Restr	icted, If	Any (Net MW	e):
	Reasons for Restrictions,			
	NONE			
	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 73,799.0
13.	Hours Reactor Critical	720.0	6,221.3	37,104.6
14	Rx Reserve Shedun Hrs	. 0		4,482.7
			1 010 1	35,828.0
	Hrs Generator On-Line	720.0	6,049.1	33,020,0
15.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs	.0	.0	
15.		. 0		0
15. 16. 17.	Unit Reserve Shtdwn Hrs	. 0	.0 1 <u>5,150,169</u>	.0
15. 16. 17. 18.	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH)	.0 1,674,388 526,000	.0 1 <u>5,150,169</u>	.0 82,739,701 26,284,440
15. 16. 17. 18.	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH)	.0 1,674,388 526,000	.0 1 <u>5,150,169</u> <u>4,855,500</u> <u>4,563,825</u>	.0 82,739,701 26,284,440 24,452,623
15. 16. 17. 18. 19.	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH)	.0 1,674,388 526,000 491,190	.0 15,150,169 4,855,500 4,563,825 92.0	.0 82,739,701 26,284,440 24,452,623 51.0
15. 16. 17. 18. 19. 20. 21.	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor	.0 1,674,388 526,000 491,190 100.0 100.0	.0 1 <u>5,150,169</u> <u>4,855,500</u> <u>4,563,825</u> <u>92.0</u> <u>92.0</u>	.0 82,739,701 26,284,440 24,452,623 51.0 51.0
15. 16. 17. 18. 19. 20. 21. 22.	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	.0 1,674,388 526,000 491,190 100.0 100.0 84.2	.0 15,150,169 4,855,500 4,563,825 92.0 92.0 85.7	.0 82,739,701 26,284,440 24,452,623 51.0 51.0
15. 16. 17. 18. 19. 20. 21. 22.	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	.0 1,674,388 526,000 491,190 100.0 100.0 84.2 81.7	.0 15,150,169 4,855,500 4,563,825 92.0 92.0 92.0 85.7 83.1	.0 82,739,701 26,284,440 24,452,623 51.0 51.0 44.6
15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	.0 1,674,388 526,000 491,190 100.0 100.0 84.2 81.7	0 15,150,169 4,855,500 4,563,82592.092.092.085.783.13.13.1	.0 82,739,701 26,284,440 24,452,623 51.0 51.0 44.6 43.2



HOO ONN BE EXCEEDED UNDER OPTIMAL CONDITIONS

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NET ME GENERATED

SEPTEMBER 1984

DAYS

PAGE 2-012

PERCENT MDC

Report Period SEP 1984	UNIT SHU	TDOWNS / REDUCTIONS	**************************************
No Date Type Hours Reason Me	thod LER Number	System Component Cause & Corr	rective Action to Prevent Recurrence

NONE

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-D161)

#### 

#### FACILITY DESCRIPTION

LOCATION STATE.....PENNSYLVANIA COUNTY.....BEAVER DIST AND DIRECTION FROM NEAREST POPULATION CTR...5 MI E OF E. LIVERPOOL, OH 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 COORD

RELIABILITY COORDINATION AGREEMENT

#### FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....DUQUESNE LIGHT

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

CONTRACTOR ARCHITECT/FNGINEER.....STONE & WEBSTER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR ......STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....W. TROSKOSKI

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.

PAGE 2-014

Report Period SEP 1984

#### OTHER ITEMS

MANAGERIAL ITEMS -

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

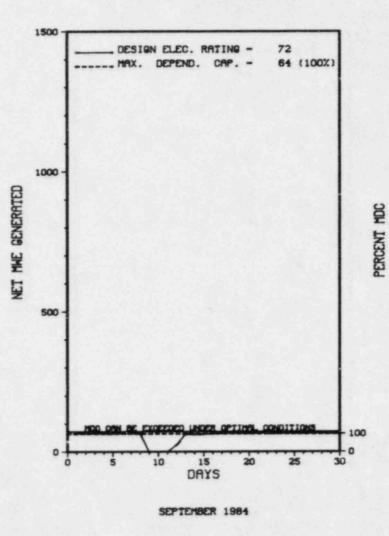
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

#### REPORTS FROM LICENSEE

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

1.	Docket: <u>50-155</u> 0	PERAT	INGS	TATUS			
2.	Reporting Period:	4_ Outage	+ On-line	Hrs: 720.0			
3.	Utility Contact: LINDA BAN	LCH (616)	47-6537				
4.	Licensed Thermal Power (MW	t):		240			
5.	Nameplate Rating (Gross MW	70.6 X	70.6 X 0.85 = 60				
6.	Design Electrical Rating (	Net MWe):		72			
7.	Maximum Dependable Capacity	y (Gross Mb	le):	69			
8.	Maximum Dependable Capacity	y (Net MWe)	):	64			
9.	If Changes Occur Above Sin	ce Last Rep	port, Give	Reasons:			
8	NONE						
0.	Power Level To Which Restr	icted, If /	Any (Net MW	e):			
1.	Reasons for Restrictions,	If Any:					
	NONE						
		MONTH	YEAR				
	Report Period Hrs	720.0	6,575.0				
				132,484.4			
	Rx Reserve Shtdwn Hrs	.0	0.				
				129,993.4			
				.0			
17.		137,318		24,360,900			
18.	Gross Elec Ener (MWH)	44,177		7,699,056			
19.		41,876		7,279,498			
20.	Unit Service Factor	89.8	71.5	68.9			
21.	Unit Avail Factor	89.8	71.5	68.9			
22.	Unit Cap Factor (MDC Net)	90.9	63.5	57.6			
23.	Unit Cap Factor (DER Net)	80.8	56.5	53.6			
24.	Unit Forced Outage Rate	10.2	19.7	16.6			
25.	Forced Outage Hours	73.4	1,154.7	11,055.0			
26.	Shutdowns Sched Over Next	6 Months (	Type,Date,D	)uration):			



\* Item calculated with a Weighted Average

Report	Period SI	EP 19	84		UN	IT	SHU	TD	0 W	N	s /	R	ED	UC	ст	I	0	N S	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	c <sub>V5</sub>	tem	C	ompone	nt	_		Ca	use	. 8	Co	prrective Action to Prevent Recurrence
84-08	09/09/84	F	73.4	A	1			H.	J	1	ALVEX		FORC	ED	ou	TAG	E	DUE	TO BLOWN PACKING ON CV-4104.

Type	Reason		Method	System & Component
F-Forced S-Sched	A-Equip Failure B-Maint or Test C-Refueling D-Regulatory Res E-Operator Train & License Exa	H-Other triction ing	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)

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

#### FACILITY DESCRIPTION

LOCATION STATE.....MICHIGAN

COUNTY.....CHARLEVOIX

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

RELIABILITY COORDINATION AGREEMENT

## FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY

LICENSEE......CONSUMERS POWER

JACKSON, MICHIGAN 49201

CONTRACTOR

ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

STATUS

IE REGION RESPONSIBLE.....III

LICENSING PROJ MANAGER.....R. EMCH 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

#### INSPECTION SUMMARY

INSPECTION ON JULY 16-20, (84-09): SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; SECURITY PROGRAM AUDIT; RECORDS AND REPORTS; TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AREAS/VITAL AREAS; SECURITY SYSTEM POWER SUPPLY; COMPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL/PACKAGES/VEHICLES; DETECTION AIDS -PROTECTED AREAS/VITAL AFEAS; ALARM STATIONS; AND COMMUNICATIONS. THE INSPECTION INVOLVED 34 HOURS OF DIRECT INSPECTION EFFORT BY ONE NRC INSPECTOR. THE INSPECTION BEGAN DURING THE DAY SHIFT. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS WITHIN THE AREAS EXAMINED DURING THIS INSPECTION.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

PAGE 2-018

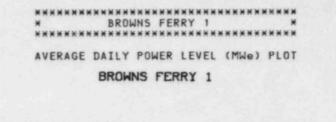
#### Report Period SEP 1984

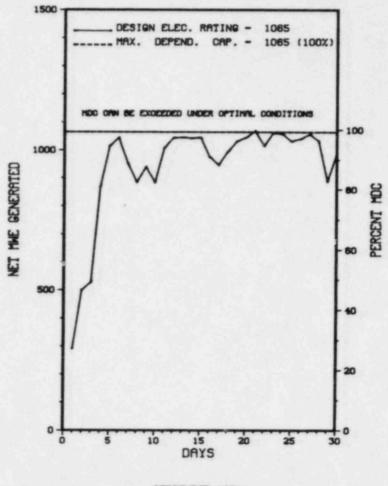
INSPECTION STATUS - (CONTINUED)

# OTHER ITEMS

NONE FACILITY ITEMS (PLANS AND PROCEDURES): NONE MANAGERIAL ITEMS: NONE PLANT STATUS: THE PLANT IS OPERATING ROUTINELY. LAST IE SITE INSPECTION DATE: OCTOBER 10 - NOVEMBER 20, 1984 INSPECTION REPORT NO: 84-13 REPORTS FROM LICENSEE St IFCT NUMBER DATE OF DATE OF EVENT REPORT \_\_\_\_ 07/31/84 08/30/84 LOSS OF CONTAINMENT INTEGRITY THROUGH THE PERSONNEL LOCK 84-11 08/03/84 08/31/84 TURBINE BYPASS VALVE CLOSING RESULTING IN REACTOR SCRAM 84-12 

1.	Docket: _50-259	OPERAT	INGS	TATUS
2.	Reporting Period:	84 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: TED THO	M (205) 729	-0834	
4.	Licensed Thermal Power (M	Mf):		3293
5.	Nameplate Rating (Gross M	We):	1280 X	0.9 = 1152
6.	Design Electrical Rating	(Net MWe):		1065
7.	Maximum Dependable Capaci	ty (Gross M	1We):	1098
8.	Maximum Dependable Capaci	ty (Net MWe		1065
9.	If Changes Occur Above Sin	nce Last Re	port, Give	Reasons:
	NONE			
10.	Power Level To Which Rest	ricted, If	Any (Net Mk	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
		MONTH	YEAR	CUMULATIVE
	Report Period Hrs	720.0	6,575.0	89,137.0
	Hours Reactor Critical			55,664.2
14.	Rx Reserve Shtdwn Hrs			6,484.
15.	Hrs Generator On-Line	710.3	5,723.2	
16.	Unit Reserve Shtdwn Hrs	.0	0	(
17.	Gross Therm Ener (MWH)	2,150,282	17,453,491	156,011,170
18.	Gross Elec Ener (MWH)	698,310	5,781,530	51,427,150
19.	Net Elec Ener (MWH)	680,140	5,588,148	49,913,47
20.	Unit Service Factor	98.7	87.0	61.
21.	Unit Avail Factor	98.7	87.0	61.
22.	Unit Cap Factor (MDC Net)	88.7	79.8	52.6
23.	Unit Cap Factor (DER Net)	88.7	79.8	52.6
24.	Unit Forced Outage Rate	1.3	12.5	22.8
25	Forced Outage Hours	9.7	820.0	16,044.7
			T	unation):
	Shutdowns Sched Over Next	6 Months (	Type, Date, 1	uration).





SEPTEMBER 1984

Report	Period S	EP 19	84		UN	I T	<b>S H U</b>	TDOW	NS / R	EDUCTIONS ************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
289	08/21/84	F	9.7	В	4					REACTOR MANUALLY SCRAMMED TO TEST CHECK VALVE FCV-75-26 FOR PROPER SEALING.
290	09/07/84	S	0.0	н	5					DERATED FOR CONTROL ROD PATTERN ADJUSTMENT.
291	09/09/84	F	0.0	F	5					DERATED DUE TO HIGH BACK PRESSURE.
292	09/15/84	s	0.0	н	5					DERATED FOR TURBINE CV TESTS AND SIS.
293	09/17/84	F	0.0	в	5					DERATED TO REPAIR FLANGE LEAKS ON DEMINERALIZER VALVES.
294	09/28/84	s	0.0	н	5					DERATED FOR CONTROL ROD PATTERN ADJUSTMENT.

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)

#### 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

# FACILITY DATA

UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....TENNESSEE VALLEY AUTHORITY

CONTRACTOR

ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. PAULK

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

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

#### INSPECTION SUMMARY

+ INSPECTION APRIL 26 - MAY 25 (84-20): THIS ROUTINE INSPECTION INVOLVED 47 RESIDENT INSPECTOR-HOURS IN THE AREAS OF OPERATIONAL SAFETY, PLANT DESIGN, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, MAINTENANCE, AND SURVEILLANCE. OF THE SIX AREAS INSPECTED, THERE WERE TWO VIOLATIONS IDENTIFIED. A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION III AND A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION XVI; BOTH DISCUSSED IN PARAGRAPH 10.

INSPECTION JULY 16-20 AND JULY 24-26 (84-24): THIS SPECIAL, ANNOUNCED INSPECTION INVOLVED 59 INSPECTOR-HOURS IN THE AREAS OF BROWNS FERRY AND SEQUOYAH PLANT TRAINING ASSESSMENT. WITHIN THE AREAS INSPECTED, ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED AT THE BROWNS FERRY NUCLEAR PLANT AND ONE VIOLATION WAS IDENTIFIED AT THE SEQUOYAH NUCLEAR PLANT.

INSPECTION AUGUST 22-24 (84-31): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED 10 INSPECTOR-HOURS ON SITE IN THE AREA OF REPORTED CONCERNS INVOLVING SUBSTANDARD WELDING AND INSPECTION PRACTICES ON THE RECIRCULATION SYSTEM SWEEPOLET OVERLAY REPAIR WELDS UNIT 1. OF THE AREA INSPECTED, TWO APPARENT VIOLATIONS WERE FOUND; VIOLATION - FAILURE TO ESTABLISH QC HOLD POINTS AND TO USE QUALIFIED VISUAL EXAMINERS FOR PERFORMING DIMENSIONAL VERIFICATION ON CRITICAL SYSTEMS, STRUCTURES AND COMPONENTS; AND VIOLATION - QUALITY ASSUMANCE BREAKDOWN IN WURK PERFORMED ON UNIT 1 OVERLAY REPAIR WELDS. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 20-23 (84-32): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 18 INSPECTOR-HOURS ON SITE IN THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT ITEMS AND PLANT TOUR. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 28 - AUGUST 25 (84-33): THIS ROUTINE INSPECTION INVOLVED 20 RESIDENT INSPECTOR-HOURS IN THE AREAS OF OPERATIONAL PAGE 2-022

# Report Period SEP 1984

INSPECTION STATUS 20): THIS ROUTINE INSPECTION INVOLVED 47 RESIL RITY, REPORTABLE OCCURRENCES, MAINTENANCE, AND

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

SAFETY, MAINTENANCE OBSERVATION, AND REPORTABLE OCCURRENCES. VIOLATION - ONE VIOLATION OF TS 6.3.A FOR FAILURE TO MAINTAIN LOCKED VALVES.

ENFORCEMENT CONFERENCE AUGUST 30 (84-35): AN ENFORCEMENT CONFERENCE WAS HELD AT THE BROWNS FERRY SITE TO REVIEW VIOLATIONS RELATING TO INOPERABLE RESIDUAL HEAT REMOVAL SERVICE WATER (RHRSW) PUMPS. FOUR OF THE EIGHT RHRSW PUMPS WERE DECLARED INOPERABLE WHILE CONDUCTING SURVEILLANCE TESTING, AND TWO OTHER PUMPS WERE INOPERABLE BECAUSE THEIR EMERGENCY DIESEL POWER SUPPLY WAS INOPERABLE. WITH UNITS 1 AND 2 OPERATING AND UNIT 3 DEFUELED, A MINIMUM OF FOUR RHRSW PUMPS WERE REQUIRED TO BE OPERABLE. ESSENTIAL CONTROL VALVE 23-57 WAS NOT DEMONSTRATED OPERABLE WHEN RHRSW PUMPS SUPPLYING STANDBY COOLING WERE DETERMINED TO BE INOPERABLE. THE BASIC CAUSE OF THE VIOLATION WAS THE FAILURE TO USE AN EXISTING PROCEDURE TO EVALUATE THE STATUS OF REQUIRED EMERGENCY EQUIPMENT WHEN ONE OF THE DIESEL GENERATORS ON RHRSW PUMPS IS INOPERABLE, AND UNCLEAR OR CONFLICTING TECHNICAL SPECIFICATIONS AND PROCEDURES. NRC EMPHASIZED THE NEED FOR GOOD PROCEDURES AND TECHNICAL SPECIFICATIONS, AND THE NEED FOR STRICT COMPLIANCE WITH PROCEDURES.

SITE TOUR AUGUST 30 (84-36): A SITE TOUR WAS CONDUCTED FOR NRC REPRESENTATIVES, AND THE QUARTERLY MEETING TO REVIEW THE STATUS OF THE REGULATORY PERFORMANCE IMPROVEMENT PROGRAM (RPIP) WAS HELD AT THE BROWNS FERRY SITE AUGUST 31, 1984. THE REVIEW INCLUDED THE OVERALL STATUS OF THE RPIP, OVERALL TVA REORGANIZATION, DESIGN SERVICES, SITE SERVICES, QUALITY ASSURANCE, TRAINING, UPGRADING EXPERIENCE OF MANAGERS AND SUPERVISION, AND A REPORT OF A CONSULTANT'S STUDY ON ADMINISTRATIVE BURDEN. TVA HAS MADE IMPROVEMENTS IN THE LOOKS OF THE SITE, AND IN IMPLEMENTING TRAINING PROGRAMS TO UPGRADE EMPLOYEES' UNDERSTANDING OF THEIR RESPONSIBILITY FOR STRICT REGULATORY COMPLIANCE. WORK IS IN PROGRESS TO PROVIDE ADDITIONAL OFFICE SPACES TO ACCOMMODATE PERSONNEL THAT HAVE BEEN SELECTED TO TRANSFER FROM KNOXVILLE AND CHATTANOOGA TO THE SITE TO IMPLEMENT VARIOUS PARTS OF THE RPIP. TVA WILL NEED TO IMPLEMENT THESE RELOCATIONS AT THE EARLIEST OPPORTUNITY IN ORDER TO MEET THEIR COMMITMENTS IN THE RPIP.

#### ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B, CRITERION XVI REQUIRES THAT MEASURES SHALL BE ESTABLISHED TO ASSURE THAT CONDITIONS ADVERSE TO QUALITY, SUCH AS DEFICIENCIES, ARE PROMPTLY IDENTIFIED AND CORRECTED. IN THE CASE OF SIGNIFICANT CONDITIONS ADVERSE TO QUALITY, THE MEASURES SHALL ASSURE THAT THE CAUSE OF THE CONDITION IS DETERMINED AND CORRECTIVE ACTION TAKEN TO PRECLUDE REPETITION. THE IDENTIFICATION, CAUSE, AND CORRECTIVE ACTION TAKEN SHALL BE DOCUMENTED AND REPORTED TO APPROPRIATE LEVELS OF MANAGEMENT. CONTRARY TO THE ABOVE, THIS REQUIREMENT WAS NOT MET IN THAT INSPECTION AND ENFORCEMENT INFORMATION NOTICE NUMBER 79-32, SEPARATION OF ELECTRICAL CABLES FOR HIGH PRESSURE COOLANT INJECTION AND AUTOMATIC DEPRESSURIZATION SYSTEM, DATED DECEMBER 21, 1979 WAS NOT ADEQUATELY EVALUATED. THE LICENSEE IDENTIFIED DURING AN APPENDIX & (FIRE PROTECTION) REVIEW OF CABLE SEPARATION CRITERIA THAT THE HPCI AND ADS SYSTEMS DID NOT MEET DESIGN BASIS CRITERIA FOR SEPARATION. BROWNS FERRY NONCONFORMANCE REPORT BENNEB8404R1 DATED MAY 8, 1984 IDENTIFIED THAT A SINGLE FIRE IN CERTAIN CABLE TRAY AREAS WAS A SIGNIFICANT SAFETY CONCERN DUE TO LOSS OF HIGH PRESSURE MAKEUP AND LOSS OFF CAPABILITY TO DEPRESSURIZE. ADEQUATE IDENTIFICATION AND CORRECTIVE ACTION WAS NOT TAKEN BY THE LICENSEE, ALTHOUGH THE POTENTIAL BWR GENERIC PROBLEM WAS BROUGHT TO THE LICENSEE'S ATTENTION IN IEN 79-32. 10CFR50, APP B, CRIT III REQUIRES THAT MEASURES SHALL BE ESTABLISHED TO ASSURE THAT APPLICABLE REGULATORY REQUIREMENTS AND THE DESIGN BASIS FOR THOSE STRUCTURES, SYSTEMS, AND COMPONENTS TO WHICH THIS APP. APPLIES ARE CORRECTLY TRANSLATED INTO SPECIFICATIONS, DRAWINGS, PROCEDURES, AND INSTRUCTIONS. (1) CONTRARY TO THE ABOVE, THIS REQUIREMENT HAS NOT BEEN MET SINCE ORIGINAL PLANT CONSTRUCTIONS AS RELATED TO THE STANDBY A-C POWER SUPPLY AND DISTRIBUTION SYSTEM DESIGN BASIS #3 AND #10, AS IDENTIFIED IN THE FINAL SAFETY ANALYSIS REPORT SECTION 8.5. SAFETY DESIGN BASIS 3 OF SECTION 8.5 OF THE FSAR STATES, "FOR THE LONG TERM (GREATER THAN 10 MINUTES), THREE OF THE UNITS 1 AND 2 DIESEL-GENERATOR, PARALLED WITH THE THREE RESPECTIVE UNIT 3 DIESEL GENERATORS, SHALL BE ADEQUATE TO SUPPLY ALL REQUIRED LOADS FOR THE SAFE SHUTDOWN AND COOLDOWN OF ALL THREE UNITS IN THE EVENT OF LOSS OF OFFSITE POWER AND A DESIGN BASIS ACCIDENT IN ANY ONE UNIT." ALL LONG-TERM ANALSYSES FOR THE DIESEL GENERATORS HAVE BEEN BASED UPON PARALLELING THE UNITS 1 AND 2 DIESEL GENERATORS WITH THE UNIT 3 DIESEL GENERATORS. HOWEVER, THE OPERATIONAL MODE SWITCH USED TO MODIFY THE FUNCTION OF THE ENGINE GOVERNOR AND THE VOLTAGE REGULATOR FOR PARALLELED OPERATION IS INHIBITED FROM WORKING IN PARALLEL WITH UNIT OR SYSTEM MODE IF AN ACCIDENT SIGNAL IS PRESENT. OPERATION OF THE DIESEL-GENERATORS IN PARALLEL WITH THE MODE CONTROL SWITCH IN "SINGLE UNIT" MODE OF OPERATION WAS ANALYZED IN RESPONSE TO AEC QUESTION 8.11, DTD 3/25/71. THE RESPONSE WAS THAT FAILURE OF ONE DIESEL OF THE PARALLELED PAIR COULD OCCUR DUE TO A VAR LOADING MISMATCH. FAILURE 6 OF THE VOLTAGE REGULATOR ANALYSIS STATES THAT THIS FAILURE IS NOT APPLICABLE WITH AN ACCIDENT SIGNAL PRESENT SINCE THE MODE SWITCH CAN ONLY OPERATE IN THE "SINGLE UNIT" MODE.

#### ENFORCEMENT SUMMARY

CONSIDERING THE COMMON MODE FAILURE OF TRIPPING 4 DIESELS DUE TO VAR LOADING MISMATCH WITH THE DIESEL GENERATORS PARALLELED AND WITHOUT THE AID OF THE MODE CONTROL SWITCH IN ONE OF THE PARALLEL MODES, SBD 3 CANNOT BE MET. IN ADDITION, THERE IS NO DOCUMENTED EVIDENCE THE DIESEL GENERATORS CAN HANDLE THE LONG-TERM LOAD REQUIREMENTS FOR A LOSS OF OFFSITE POWER AND DESIGN BASIS ACCIDENT WITHOUT PARALLELING THE DIESEL GENERATORS. (8420 3)

TECHNICAL SPECIFICATION SECTION 6.3.A.10 REQUIRES THAT DETAILED FIRE PROTECTION AND PREVENTION PROCEDURES BE PREPARED, APPROVED, AND ADHERED TO. MECHANICAL MAINTENANCE INSTRUCTION (MMI) 122 IMPLEMENTS A HIGH PRESSURE FIRE PROTECTION SYSTEM FLUSH AND AND STRAINER INSPECTION AND CLEANING PROGRAM TO ASSURE FIRE PROTECTION SYSTEM OPERABILITY. CONTRARY TO THE ABOVE, THE STRAINERS FOR A NUMBER OF FIRE PROTECTION SYSTEMS, SUCH AS THE SPRINKLER SYSTEMS FOR THE CABLE SPREADING ROOMS, VITAL BATTERY ROOMS, AND INTAKE PUMPING STRUCTURE, WERE NOT INCLUDED IN PROCEDURE MMI 122 TO ASSURE THAT THESE STRAINERS WERE PROPERLY FLUSHED, INSPECTE, AND CLEANED UNDER AND APPROVED PROCEDURE. TECHNICAL SPECIFICATION SECTION 6.3.A.10 REQUIRES THAT DETAILED FIRE PROTECTION AND PREVENTION PROCEDURES BE PREPARED, APPROVED, AND ADHERED TO. STANDARD PRACTICE PROCEDURE BF 14.47, FIRE TRAINING, IMPLEMENTS THE FIRE BRIGADE MEMBER QUALIFICATION AND TRAINING REQUIREMENTS. CONTRARY TO THE ABOVE, THE FIRE BRIGADE QUALIFICATION AND TRAINING REQUIREMENTS WERE NOT MET IN THAT: (A) ALL FIRE BRIGADE LEADERS AND MEMBERS HAD NOT RECEIVED A MEDICAL EVALUATION FOR PERFORMING STRENUOUS ACTIVITIES WITHIN THE PAST 12 MONTHS AS REQUIRED BY PROCEDURE 14.47. (B) ALL BRIGADE MEMBERS HAD NOT PARTICIPATED IN REGULAR PLANNED MEETINGS EVERY THREE MUNTHS TO REVIEW THE BASIC CONCEPTS OF THE INITIAL FIRE BRIGADE TRAINING COURSE AS REQUIRED BY PROCEDURE BF 14.47.

### (8427 4)

CONTRARY TO 10 CFR 50, CRITERION X AND II, TVA ALLOWED VISUAL MEASUREMENT OF ASME SECTION XI WELDS TO BE PERFORMED WITHOUT REQUIRING SECOND PARTY VERIFICATION AND CERTIFIED EXAMINERS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION VI, TVA DID NOT OBTAIN APPROVAL OF CHANGES IN WRITTEN FIELD INSTRUCTIONS. (8431 4)

TECHNICAL SPECIFICATION 6.3.A.1 REQUIRES THAT DETAILED WRITTEN PROCEDURES, INCLUDING APPLICABLE CHECKOFF LISTS, FOR THE NORMAL STARTUP, OPERATION, AND SHUTDOWN OF THE REACTOR AND OF ALL SYSTEMS AND COMPONENTS INVOLVING NUCLEAR SAFETY OF THE FACILITY BE PREPARED, APPROVED AND ADHERED TO. CONTRARY TO THE ABOVE, THIS REQUIREMENT WAS NOT MET IN THAT RESIDUAL HEAT REMOVAL (RHR) HEAT EXCHANGER 'B' OUTLET VALVE 2-74-33 WAS FOUND NOT LOCKED AS REQUIRED BY OPERATING INSTRUCTION 0I-74. A FOLLOW UP AUDIT CONDUCTED BY THE LICENSEE FOUND THE FOLLOWING VALVES NOT LOCKED AS REQUIRED BY PLANT OPERATING INSTRUCTIONS: VALVE UNLOCKED - 2-67-603 RHR B SEAL HEAT EXCHANGER THROTTLING VALVE, REQUIRED BY - 0I-67; VALVE UNLOCKED - 1-74-722 SUPPRESSION POOL DRAIN, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-22 HEAT EXCHANGER C OUTLET, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-22 HEAT EXCHANGER C OUTLET, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-575 A HEAT EXCHANGER A SHELL DRAIN, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-22 HEAT EXCHANGER C OUTLET, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-575 A HEAT EXCHANGER A SHELL DRAIN, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-769 CONDENSATE STORAGE TANK 4 OUTLET, REQUIRED BY - 0I-2; VALVE UNLOCKED - 2-770 CONDENSATE STORAGE TANK 5 OUTLET, REQUIRED BY - 0I-2; VALVE UNLOCKED - 2-776 CONDENSATE STORAGE TANK 4 & 5 TIE INTO UNIT 3, REQUIRED BY OI-2; VALVE UNLOCKED - 1-32-305B AIR COMPRESSOR B VENT BYPASS TO AIR COMPRESSOR, REQUIRED BY - 0I-32/32A; VALVE UNLOCKED - 1-32-2520 B SUCTION ISOLATION VALVE TO CONTAINMENT X-50, REQUIRED BY - 0I-32/32A.

# OTHER ITEMS

#### SYSTEMS AND COMPONENT PROBLEMS:

INTERGRANULAR STRESS CORROSION CRACKING (IGSCC) PROBLEMS IN RHR, CORE SPRAY AND OTHER PIPING HAS NECESSITATED WELD OVERLAY REPAIRS.

FACILITY ITEMS (PLANS AND PROCEDURES):

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

# OTHER ITEMS

NONE.

MANAGERIAL ITEMS:

THE OFFICE OF POWER AND OFFICE OF ENGINEERING, DESIGN AND CONSTRUCTION WERE COMBINED TO FORM THE OFFICE OF POWER AND ENGINEERING, H. G. PARRIS, MANAGER. A SEPARATE OFFICE OF NUCLEAR POWER WAS ESTABLISHED WITH J. P. DARLING, MANAGER, J. P. COFFEY WAS ASSIGNED AS SITE DIRECTOR, BROWNS FERRY REPORTING TO J. P. DARLING.

PLANT STATUS:

NORMAL OPERATION.

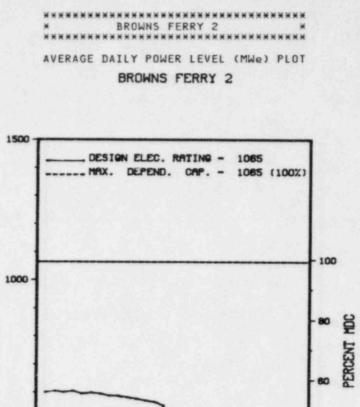
LAST IE SITE INSPECTION DATE: AUGUST 30, 1984 +

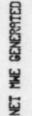
INSPECTION REPORT NO: 50-259/84-36 +

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-012	02/14/84	08/28/84	SHUTDOWN COOLING SYSTEM NOT AVAILABLE DUE TO VALVE FAILURE TO OPEN RHR VALVE ON UNIT 1 FAILED TO OPEN.
84-029	07/20/84	08/17/84	ASME SECTION XI PUMP PRESSURE CRITERIA WAS NOT MET FOR FOUR RESIDUAL HEAT REMOVAL SERVICE WATER RHRSW PUMPS. THIS WAS CAUSED BY PERSONNEL ERROR.
84-031	07/27/84	08/21/84	REDUNDANT EQUIPMENT NOT PUNCTUALLY PROVEN OPERABLE WHEN D1 RESIDUAL HEAT REMOVAL SERVICE WATER PUMP WAS DECLARED INOPERABLE.

1.	Docket: <u>50-260</u>	PERAT	TING S	TATUS
2.	Reporting Period:	14 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact:	1 (205) 729	9-0834	
4.	Licensed Thermal Power (MM	4t):		3293
5.	Nameplate Rating (Gross MM	le):	1280 X	0.9 = 1152
6.	Design Electrical Rating (	Net MWe):		1065
7.	Maximum Dependable Capacit	y (Gross M	1We):	1098
8.	Maximum Dependable Capacit	y (Net MWa	2):	1065
9.	If Changes Occur Above Sir	ce Last Re	eport, Give	Reasons:
_	NONE			
10.	Power Level To Which Restr			
11.	Reasons for Restrictions,	If Any:		
	NONE			
		MONTH		CUMULATIVE
	Report Period Hrs	720.0	6,575.0	
	Hours Reactor Critical	340.9		
	Rx Reserve Shtdwn Hrs		300.1	
	Hrs Generator On-Line	340.9	5,845.5	
	Unit Reserve Shtdwn Hrs			
	Gross Therm Ener (MWH)	665,357	13,100,122	153,245,167
	Gross Elec Ener (MWH)	206,930	4,174,510	50,771,798
19.	Net Elec Ener (MWH)	194,862	4,044,370	49,302,973
20.	Unit Service Factor	47.3	88.9	64.7
21.	Unit Avail Factor	47.3	88.9	64.7
22.	Unit Cap Factor (MDC Net)	25.4	57.8	55.1
23.	Unit Cap Factor (DER Net)	25.4	57.8	55.1
24.	Unit Forced Outage Rate		4.1	23.0
	Forced Outage Hours		249.4	16,304.4
25.				
25. 26.	Shutdowns Sched Over Next	6 Months (	Type, Date, I	)uration):





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SEPTEMBER 1984

DAYS

PAGE 2-026

Report	Period SI	EP 19	84		UN	IT	SHU	T	DO	W	N	s /	R	EI	DU	c	T	1 0	N	N S BROWNS FERRY 2 *
No.	Date	Type	Hours	Reason	Method	LER	Number	5	vst	em	Co	mpone	nt			c	au	se	8	Corrective Action to Prevent Recurrence
305	09/15/84	s	379.1	с	4									EO	C-5	RE	FUI	EL	ou	UTAGE (CONTROLLED SHUTDOWN 9/15/84).

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

BROWNS FERRY 2 ENTERED REFUELING ON SEPTEMBER 15TH.

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)

#### 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

# FACILITY DATA

UTILITY & CONTRACTOR INFORMATION

UTILITY

CONTRACTOR

ARCHITECT/ENGINEER.....TENNESSEE VALLEY AUTHORITY

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. PAULK

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 APRIL 26 - MAY 25 (84-20): THIS ROUTINE INSPECTION INVOLVED 47 RESIDENT INSPECTOR-HOURS IN THE AREAS OF OPERATIONAL SAFETY, PLANT DESIGN, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, MAINTENANCE, AND SURVEILLANCE. OF THE SIX AREAS INSPECTED, THERE WERE TWO VIOLATIONS IDENTIFIED. A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION III AND A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION XVI; BOTH DISCUSSED IN PARAGRAPH 10.

INSPECTION JULY 16-20 AND JULY 24-26 (84-24): THIS SPECIAL, ANNOUNCED INSPECTION INVOLVED 58 INSPECTOR-HOURS IN THE AREAS OF BROWNS FERRY AND SEQUOYAH PLANT TRAINING ASSESSMENT. WITHIN THE AREAS INSPECTED, ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED AT THE BROWNS FERRY NUCLEAR PLANT AND ONE VIOLATION WAS IDENTIFIED AT THE SEQUOYAH NUCLEAR PLANT.

INSPECTION AUGUST 22-24 (84-31): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED 10 INSPECTOR-HOURS ON SITE IN THE AREA OF REPORTED CONCERNS INVOLVING SUBSTANDARD WELDING AND INSPECTION PRACTICES ON THE RECIRCULATION SYSTEM SWEEPOLET OVERLAY REPAIR WELDS UNIT 1. OF THE AREA INSPECTED, TWO APPARENT VIOLATIONS WERE FOUND: VIOLATION - FAILURE TO ESTABLISH QC HOLD POINTS AND TO USE QUALIFIED VISUAL EXAMINERS FOR PERFORMING DIMENSIONAL VERIFICATION ON CRITICAL SYSTEMS, STRUCTURES AND COMPONENTS; AND VIOLATION - QUALIFY ASSURANCE BREAKDOWN IN WORK PERFORMED ON UNIT 1 OVERLAY REPAIR WELDS. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 20-23 (84-32): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 17 INSPECTOR-HOURS ON SITE IN THE AREAS OF FOLLOWUP ON PREVIOUS ENFORCEMENT ITEMS AND PLANT TOUR. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 28 - AUGUST 25 (84-33): THIS ROUTINE INSPECTION INVOLVED 20 RESIDENT INSPECTOR-HOURS IN THE AREAS OF OPERATIONAL PAGE 2-028

#### Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

SAFETY, MAINTENANCE OBSERVATION, AND REPORTABLE OCCURRENCES. VIOLATION - ONE VIOLATION OF TS 6.3.A FOR FAILURE TO MAINTAIN LOCKED VALVES.

ENFORCEMENT CONFERENCE AUGUST 30 (84-35): AN ENFORCEMENT CONFERENCE WAS HELD AT THE BROWNS FERRY SITE TO REVIEW VIOLATIONS RELATING TO INOPERABLE RESIDUAL HEAT REMOVAL SERVICE WATER (RHRSW) PUMPS. FOUR OF THE EIGHT RHRSW PUMPS WERE DECLARED INOPERABLE WHILE CONDUCTING SURVEILLANCE TESTING, AND TWO OTHER PUMPS WERE INOPERABLE BECAUSE THEIR EMERGENCY DIESEL POWER SUPPLY WAS INOPERABLE. WITH UNITS 1 AND 2 OPERATING AND UNIT 3 DEFUELED, A MINIMUM OF FOUR RHRSW PUMPS WERE REQUIRED TO BE OPERABLE. ESSENTIAL CONTROL VALVE 23-57 WAS NOT DEMONSTRATED OPERABLE WHEN RHRSW PUMPS SUPPLYING STANDBY COOLING WERE DETERMINED TO BE INOPERABLE. THE BASIC CAUSE OF THE VIOLATION WAS THE FAILURE TO USE AN EXISTING PROCEDURE TO EVALUATE THE STATUS OF REQUIRED EMERGENCY EQUIPMENT WHEN ONE OF THE DIESEL GENERATORS ON RHRSW PUMPS IS INOPERABLE, AND UNCLEAR OR CONFLICTING TECHNICAL SPECIFICATIONS AND PROCEDURES. NRC EMPHASIZED THE NEED FOR GOOD PROCEDURES AND TECHNICAL SPECIFICATIONS, AND THE NEED FOR STRICT COMPLIANCE WITH PROCEDURES.

SITE TOUR AUGUST 30 (84-36): A SITE TOUR WAS CONDUCTED FOR NRC REPRESENTATIVES, AND THE QUARTERLY MEETING TO REVIEW THE STATUS OF THE REGULATORY PERFORMANCE IMPROVEMENT PROGRAM (RPIP) WAS HELD AT THE BROWNS FERRY SITE AUGUST 31, 1984. THE REVIEW INCLUDED THE OVERALL STATUS OF THE RPIP, OVERALL TVA REORGANIZATION, DESIGN SERVICES, SITE SERVICES, QUALITY ASSURANCE, TRAINING, UPGRADING EXPERIENCE OF MANAGERS AND SUPERVISION, AND A REPORT OF A CONSULTANT'S STUDY ON ADMINISTRATIVE BURDEN. TVA HAS MADE IMPROVEMENTS IN THE LOOKS OF THE SITE, AND IN IMPLEMENTING TRAINING PROGRAMS TO UPGRADE EMPLOYEES' UNDERSTANDING OF THEIR RESPONSIBILITY FOR STRICT REGULATORY COMPLIANCE. WORK IS IN PROGRESS TO PROVIDE ADDITIONAL OFFICE SPACES TO ACCOMMODATE PERSONNEL THAT HAVE BEEN SELECTED TO TRANSFER FROM KNOXVILLE AND CHATTANOGA TO THE SITE TO IMPLEMENT VARIOUS PARTS OF THE RPIP. TVA WILL NEED TO IMPLEMENT THESE RELOCATIONS AT THE EARLIEST OPPORTUNITY IN ORDER TO MEET THEIR COMMITMENTS IN THE RPIP.

#### ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B, CRITERION XVI REQUIRES THAT MEASURES SHALL BE ESTABLISHED TO ASSURE THAT CONDITIONS ADVERSE TO QUALITY, SUCH AS DEFICIENCIES, ARE PROMPTLY IDENTIFIED AND CORRECTED. IN THE CASE OF SIGNIFICANT CONDITIONS ADVERSE TO QUALITY, THE MEASURES SHALL ASSURE THAT THE CAUSE OF THE CONDITION IS DETERMINED AND CORRECTIVE ACTION TAKEN TO PRECLUDE REPETITION. THE IDENTIFICATION, CAUSE, AND CORRECTIVE ACTION TAKEN SHALL BE DOCUMENTED AND REPORTED TO APPROPRIATE LEVELS OF MANAGEMENT. CONTRARY TO THE ABOVE, THIS REQUIREMENT WAS NOT MET IN THAT INSPECTION AND ENFORCEMENT INFORMATION NOTICE NUMBER 79-32, SEPARATION OF ELECTRICAL CABLES FOR HIGH PRESSURE COOLANT INJECTION AND AUTOMATIC DEPRESSURIZATION SYSTEM, DATED DECEMBER 21, 1979 WAS NOT ADEQUATELY EVALUATED. THE LICENSEE IDENTIFIED DURING AN APPENDIX R (FIRE PROTECTION) REVIEW OF CABLE SEPARATION CRITERIA THAT THE HPCI AND ADS SYSTEMS DID NOT MEET DESIGN BASIS CRITERIA FOR SEPARATION. BROWNS FERRY NONCONFORMANCE REPORT BENNEB8404R1 DATED MAY 8, 1984 IDENTIFIED THAT A SINGLE FIRE IN CERTAIN CABLE TRAY AREAS WAS A SIGNIFICANT SAFETY CONCERN DUE TO LOSS OF HIGH PRESSURE MAKEUP AND LOSS OFF CAPABILITY TO DEPRESSURIZE. ADEQUATE IDENTIFICATION AND CORRECTIVE ACTION WAS NOT TAKEN BY THE LICENSEE, ALTHOUGH THE POTENTIAL BWR GENERIC PROBLEM WAS BROUGHT TO THE LICENSEE'S ATTENTION IN IEN 79-32. 10CFR50, APP B, CRIT III REQUIRES THAT MEASURES SHALL BE ESTABLISHED TO ASSURE THAT APPLICABLE REGULATORY REQUIREMENTS AND THE DESIGN BASIS FOR THOSE STRUCTURES, SYSTEMS, AND COMPONENTS TO WHICH THIS APP. APPLIES ARE CORRECTLY TRANSLATED INTO SPECIFICATIONS, DRAWINGS, PROCEDURES, AND INSTRUCTIONS. (1) CONTRARY TO THE ABOVE, THIS REQUIREMENT HAS NOT BEEN MET SINCE ORIGINAL PLANT CONSTRUCTIONS AS RELATED TO THE STANDBY A-C POWER SUPPLY AND DISTRIBUTION SYSTEM DESIGN BASIS #3 AND #10, AS IDENTIFIED IN THE FINAL SAFETY ANALYSIS REPORT SECTION 8.5. SAFETY DESIGN BASIS 3 OF SECTION 8.5 OF THE FSAR STATES, "FOR THE LONG TERM (GREATER THAN 10 MINUTES), THREE OF THE UNITS 1 AND 2 DIESEL-GENERATOR, PARALLED WITH THE THREE RESPECTIVE UNIT 3 DIESEL GENERATORS, SHALL BE ADEQUATE TO SUPPLY ALL REQUIRED LOADS FOR THE SAFE SHUTDOWN AND COOLDOWN OF ALL THREE UNITS IN THE EVENT OF LOSS OF OFFSITE POWER AND A DESIGN BASIS ACCIDENT IN ANY ONE UNIT." ALL LONG-TERM ANALSYSES FOR THE DIESEL GENERATORS HAVE BEEN BASED UPON PARALLELING THE UNITS 1 AND 2 DIESEL GENERATORS WITH THE UNIT 3 DIESEL GENERATORS. HOWEVER, THE OPERATIONAL MODE SWITCH USED TO MODIFY THE FUNCTION OF THE ENGINE GOVERNOR AND THE VOLTAGE REGULATOR FOR PARALLELED OPERATION IS INHIBITED FROM WORKING IN PARALLEL WITH UNIT OR SYSTEM MODE IF AN ACCIDENT SIGNAL IS PRESENT. OPERATION OF THE DIESEL-GENERATORS IN PARALLEL WITH THE MODE CONTROL SWITCH IN "SINGLE UNIT" MODE OF OPERATION WAS ANALYZED IN RESPONSE TO AEC QUESTION 8.11, DTD 3/25/71. THE RESPONSE WAS THAT FAILURE OF ONE DIESEL OF THE PARALLELED PAIR COULD OCCUR DUE TO A VAR LOADING MISMATCH. FAILURE 6 OF THE VOLTAGE REGULATOR ANALYSIS STATES THAT THIS FAILURE IS NOT APPLICABLE WITH AN ACCIDENT SIGNAL PRESENT SINCE THE MODE SWITCH CAN ONLY OPERATE IN THE "SINGLE UNIT" MODE.

INSPECTION STATUS - (CONTINUED)

#### ENFORCEMENT SUMMARY

CONSIDERING THE COMMON MODE FAILURE OF TRIPPING 4 DIESELS DUE TO VAR LOADING MISMATCH WITH THE DIESEL GENERATORS PARALLELED AND WITHOUT THE AID OF THE MODE CONTROL SWITCH IN ONE OF THE PARALLEL MODES, SBD 3 CANNOT BE MET. IN ADDITION, THERE IS NO DOCUMENTED EVIDENCE THE DIESEL GENERATORS CAN HANDLE THE LONG-TERM LOAD REQUIREMENTS FOR A LOSS OF OFFSITE POWER AND DESIGN BASIS ACCIDENT WITHOUT PARALLELING THE DIESEL GENERATORS. (8420 3)

TECHNICAL SPECIFICATION SECTION 6.3.A.10 REQUIRES THAT DETAILED FIRE PROTECTION AND PREVENTION PROCEDURES BE PREPARED, APPROVED, AND ADHERED TO. MECHANICAL MAINTENANCE INSTRUCTION (MMI) 122 IMPLEMENTS A HIGH PRESSURE FIRE PROTECTION SYSTEM FLUSH AND AND STRAINER INSPECTION AND CLEANING PROGRAM TO ASSURE FIRE PROTECTION SYSTEM OPERABILITY. CONTRARY TO THE ABOVE, THE STRAINERS FOR A NUMBER OF FIRE PROTECTION SYSTEMS, SUCH AS THE SPRINKLER SYSTEMS FOR THE CABLE SPREADING ROOMS, VITAL BATTERY ROOMS, AND INTAKE PUMPING STRUCTURE, WERE NOT INCLUDED IN PROCEDURE MMI 122 TO ASSURE THAT THESE STRAINERS WERE PROPERLY FLUSHED, INSPECTED, AND CLEANED UNDER AND APPROVED PROCEDURE. TECHNICAL SPECIFICATION SECTION 6.3.A.10 REQUIRES THAT DETAILED FIRE PROTECTION AND PREVENTION PROCEDURES BE PREPARED, APPROVED, AND ADHERED TO. STANDARD PRACTICE PROCEDURE BF 14.47, FIRE TRAINING, IMPLEMENTS THE FIRE BRIGADE MEMBER QUALIFICATION AND TRAINING REQUIREMENTS. CONTRARY TO THE ABOVE, THE FIRE BRIGADE QUALIFICATION AND TRAINING REQUIREMENTS WERE NOT MET IN THAT: (A) ALL FIRE BRIGADE LEADERS AND MEMBERS HAD NOT RECEIVED A MEDICAL EVALUATION FOR PERFORMING STRENUOUS ACTIVITIES WITHIN THE PAST 12 MONTHS AS REQUIRED BY PROCEDURE 14.47. (B) ALL BRIGADE MEMBERS HAD NOT PARTICIPATED IN REGULAR PLANNED MEETINGS EVERY THREE MONTHS TO REVIEW THE BASIC CONCEPTS OF THE INITIAL FIRE BRIGADE TRAINING COURSE AS REQUIRED BY PROCEDURE BF 14.47.

#### (8427 4)

TECHNICAL SPECIFICATION 6.3.A.1 REQUIRES THAT DETAILED WRITTEN PROCEDURES, INCLUDING APPLICABLE CHECKOFF LISTS, FOR THE NORMAL STARTUP, OPERATION, AND SHUTDOWN OF THE REACTOR AND OF ALL SYSTEMS AND COMPONENTS INVOLVING NUCLEAR SAFETY OF THE FACILITY BE PREPARED, APPROVED AND ADHERED TO. CONTRARY TO THE ABOVE, THIS REQUIREMENT WAS NOT MET IN THAT RESIDUAL HEAT REMOVAL (RHR) HEAT EXCHANGER 'B' OUTLET VALVE 2-74-33 WAS FOUND NOT LOCKED AS REQUIRED BY OPERATING INSTRUCTION OI-74. A FOLLOW UP AUDIT CONDUCTED BY THE LICENSEE FOUND THE FOLLOWING VALVES NOT LOCKED AS REQUIRED BY PLANT OPERATING INSTRUCTIONS: VALVE UNLOCKED - 2-67-603 RHR B SEAL HEAT EXCHANGER THROTTLING VALVE, REQUIRED BY - 0I-67; VALVE UNLOCKED - 1-74-722 SUPPRESSION POOL DRAIN, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-22 HEAT EXCHANGER C OUTLET, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-575A HEAT EXCHANGER A SHELL DRAIN, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-575A HEAT EXCHANGER C OUTLET, REQUIRED BY - 0I-74; VALVE UNLOCKED - 2-74-575A HEAT EXCHANGER C ONDENSATE STORAGE TANK 4 OUTLET, REQUIRED BY - 0I-72; VALVE UNLOCKED - 2-769 CONDENSATE STORAGE TANK 4 OUTLET, REQUIRED BY - 0I-22; VALVE UNLOCKED - 2-770 CONDENSATE STORAGE TANK 5 OUTLET, REQUIRED BY - 0I-22; VALVE UNLOCKED - 2-770 CONDENSATE STORAGE TANK 5 OUTLET, REQUIRED BY - 0I-22; VALVE UNLOCKED - 2-766 CONDENSATE STORAGE TANK 4 & 5 TIE INTO UNIT 3, REQUIRED BY 0I-22; VALVE UNLOCKED - 1-32-305B AIR COMPRESSOR B VENT BYPASS TO AIR COMPRESSOR, REQUIRED BY - 0I-32/32A; VALVE UNLOCKED - 1-32-2520 B SUCTION ISOLATION VALVE TO CONTAINMENT X-50, REQUIRED BY - 0I-32/32A.

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

THE OFFICE OF POWER AND OFFICE OF ENGINEERING, DESIGN AND CONSTRUCTION WERE COMBINED TO FORM THE OFFICE OF POWER AND ENGINEERING, H. G. PARRIS, MANAGER. A SEPARATE OFFICE OF NUCLEAR POWER WAS ESTABLISHED WITH J. P. DARLING, MANAGER, J. P. COFFEY WAS ASSIGNED

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

# OTHER ITEMS

AS SITE DIRECTOR, BROWNS FERRY REPORTING TO J. P. DARLING.

PLANT STATUS:

+ SHUTDOWN ON SEPTEMBER 15, 1984 FOR REFUELING OUTAGE.

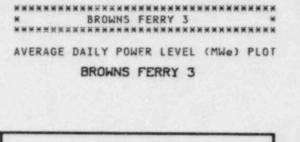
LAST IE SITE INSPECTION DATE: AUGUST 30, 1984 +

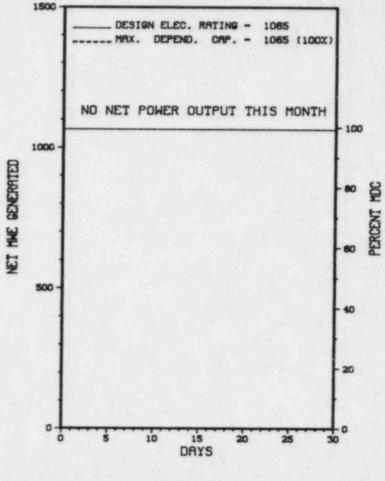
INSPECTION REPORT NO: 50-260/84-36 +

# REPORTS FROM LICENSEE

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT	
NONE.				
==========				

1.	Docket: 50-296 0	PERAT	ING S	TATUS
2.	Reporting Period:	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: TED THOM	(205) 729-	0834	
4.	Licensed Thermal Power (MW	t):	1.175.1	3293
5.	Nameplate Rating (Gross MW	e):	1280 X	0.9 = 1152
6.	Design Electrical Rating (	Net MWe):		1065
7.	Maximum Dependable Capacit	y (Gross MW	le):	1098
8.	Maximum Dependable Capacit	y (Net MWe)		1065
9.	If Changes Occur Above Sin NONE			Reasons:
	Power Level To Which Restr Reasons for Restrictions, NONE	If Any:		
12.		MONTH 720.0	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical	. 0		43,088.6
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	3,878.1
15.	Hrs Generator On-Line	. 0		42,194.5
6.	Unit Reserve Shtdwn Hrs	. 0	. 0	
17.	Gross Therm Ener (MWH)	0	0	126,285,520
8.	Gross Elec Ener (MWH)	0	0	41,597,620
9.	Net Elec Ener (MWH)	0	0	40,376,156
20.	Unit Service Factor	. 0	. 0	85.5
1.	Unit Avail Factor	. 0	. 0	63.4
2.	Unit Cap Factor (MDC Net)	. 0	. 0	57.0
23.	Unit Cap Factor (DER Net)	. 0	. 0	57.0
24.	Unit Forced Outage Rate	. 0	. 0	10.8
25.	Forced Outage Hours	. 0	.0	5,091.4
26.	Shutdowns Sched Over Next	6 Months (T	ype,Date,I	)uration):
27.	If Currently Shutdown Estin	mated Start	up Date:	11/20/84





SEPTEMBER 1984

1	Report	Period SI	EP 19	84		UN	IT	<b>S H U</b>	TDO	w	N S		RE	D	U	ст	I	0	N S * BROWNS FERRY 3 * **********************************
	No.	Date	Type	Hours	Reason	Method	LER	Number	Syst	tem	Com	ponen	E I			Ca	US	2 8	Corrective Action to Prevent Recurrence
	140	09/07/83	s	720.0	с	4							E	00.	-5	REF	UEL	. 0	UTAGE CONTINUES (CONTROLLED SHUTDOWN 9/7/83).

Туре	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)

#### 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

# FACILITY DATA

UTILITY & CONTRACTOR INFORMATION

UTILITY

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

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....J. PAULK

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 APRIL 26 - MAY 25 (84-20): THIS ROUTINE INSPECTION INVOLVED 46 RESIDENT INSPECTOR-HOURS IN THE AREAS OF OPERATIONAL SAFETY, PLANT DESIGN, PHYSICAL SECURITY, REPORTABLE OCCURRENCES, MAINTENANCE, AND SURVEILLANCE. OF THE SIX AREAS INSPECTED, THERE WERE TWO VIOLATIONS IDENTIFIED. A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION III AND A VIOLATION OF 10 CFR 50, APPENDIX B, CRITERION XVI; BOTH DISCUSSED IN PARAGRAPH 10.

INSPECTION JULY 16-20 AND JULY 24-26 (84-24): THIS SPECIAL, ANNOUNCED INSPECTION INVOLVED 58 INSPECTOR-HOURS IN THE AREAS OF BROWNS FERRY AND SEQUOYAH PLANT TRAINING ASSESSMENT. WITHIN THE AREAS INSPECTED, ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED AT THE BROWNS FERRY NUCLEAR PLANT AND ONE VIOLATION WAS IDENTIFIED AT THE SEQUOYAH NUCLEAR PLANT.

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INSPECTION JULY 28 - AUGUST 25 (84-33): THIS ROUTINE INSPECTION INVOLVED 20 RESIDENT INSPECTOR-HOURS IN THE AREAS OF OPERATIONAL PAGE 2-034

Report Period SEP 1984

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#### ENFORCEMENT SUMMARY

CONSIDERING THE COMMON MODE FAILURE OF TRIPPING 4 DIESELS DUE TO VAR LOADING MISMATCH WITH THE DIESEL GENERATORS PARALLELED AND WITHOUT THE AID OF THE MODE CONTROL SWITCH IN ONE OF THE PARALLEL MODES, SBD 3 CANNOT BE MET. IN ADDITION, THERE IS NO DOCUMENTED EVIDENCE THE DIESEL GENERATORS CAN HANDLE THE LONG-TERM LOAD REQUIREMENTS FOR A LOSS OF OFFSITE POWER AND DESIGN BASIS ACCIDENT WITHOUT PARALLELING THE DIESEL GENERATORS. (8420 3)

TECHNICAL SPECIFICATION SECTION 6.3.A.10 REQUIRES THAT DETAILED FIRE PROTECTION AND PREVENTION PROCEDURES BE PREPARED, APPROVED, AND ADHERED TO. MECHANICAL MAINTENANCE INSTRUCTION (MMI) 122 IMPLEMENTS A HIGH PRESSURE FIRE PROTECTION SYSTEM FLUSH AND AND STRAINER INSPECTION AND CLEANING PROGRAM TO ASSURE FIRE PROTECTION SYSTEM OPERABILITY. CONTRARY TO THE ABOVE, THE STRAINERS FOR A NUMBER OF FIRE PROTECTION SYSTEMS, SUCH AS THE SPRINKLER SYSTEMS FOR THE CABLE SPREADING ROOMS, VITAL BATTERY ROOMS, AND INTAKE PUMPING STRUCTURE, WERE NOT INCLUDED IN PROCEDURE MMI 122 TO ASSURE THAT THESE STRAINERS WERE PROPERLY FLUSHED, INSPECTED, AND CLEANED UNDER AND APPROVED PROCEDURE. TECHNICAL SPECIFICATION SECTION 6.3.A.10 REQUIRES THAT DETAILED FIRE PROTECTION AND PREVENTION PROCEDURES BE PREPARED, APPROVED, AND ADHERED TO. STANDARD PRACTICE PROCEDURE BF 14.47, FIRE TRAINING, IMPLEMENTS THE FIRE BRIGADE MEMBER QUALIFICATION AND TRAINING REQUIREMENTS. CONTRARY TO THE ABOVE, THE FIRE BRIGADE QUALIFICATION AND TRAINING REQUIREMENTS WERE NOT MET IN THAT: (A) ALL FIRE BRIGADE LEADERS AND MEMBERS HAD NOT RECEIVED A MEDICAL EVALUATION FOR PERFORMING STRENUOUS ACTIVITIES WITHIN THE PAST 12 MONTHS AS REQUIRED BY PROCEDURE 14.47. (B) ALL BRIGADE MEMBERS HAD NOT PARTICIPATED IN STRENUOUS ACTIVITIES WITHIN THE PAST 12 MONTHS AS REQUIRED BY PROCEDURE 14.47. (B) ALL BRIGADE TRAINING COURSE AS REQUIRED BY PROCEDURE BF 14.47.

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(8427 4)
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OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

THE OFFICE OF POWER AND OFFICE OF ENGINEERING, DESIGN AND CONSTRUCTION WERE COMBINED TO FORM THE OFFICE OF POWER AND ENGINEERING, H. G. PARRIS, MANAGER. A SEPARATE OFFICE OF NUCLEAR POWER WAS ESTABLISHED WITH J. P. DARLING, MANAGER, J. P. COFFEY WAS ASSIGNED AS SITE DIRECTOR, BROWNS FERRY REPORTING TO J. P. DARLING.

PLANT STATUS:

SHUTDOWN 9/6/83 TO PERFORM IGSCC INSPECTION.

LAST IE SITE INSPECTION DATE: AUGUST 30, 1984 +

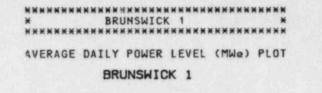
INSPECTION REPORT NO: 50-296/84-36 +

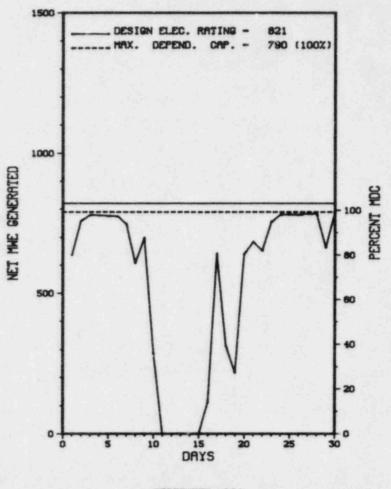
# REPORTS FROM LICENSEE

Report Period SEP 1984

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-007	06/16/84	08/28/84	DIESEL GENERATOR 3B WAS INADVERTENTLY STARTED. THE ROOT CAUSE WAS PERSONNEL ERROR AND PROCEDURAL DEFICIENCY.
84-008	07/27/84	08/21/84	ALL & DIESEL GENERATORS STATED DURING THE PERFORMANCE OF THE CORE SPRAY LOGIC FUNCTIONAL TEST. THE BASIC CAUSE FOR THE MISINTERPRETATION WAS PROCEDURAL DEFICIENCY.

1.	Docket: 50-325	DPERAT	ING S	TATUS
2.	Reporting Period:	84 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: FRANCES	HARRISON (	(919) 457-95	21
4.	Licensed Thermal Power (M	Mf):		2436
5.	Nameplate Rating (Gross M	We):	963 X 0	.9 = 867
6.	Design Electrical Rating	(Net MWs):		821
7.	Maximum Dependable Capaci	ty (Gross M	1We):	815
8.	Maximum Dependable Capaci	ty (Net MWe	:	790
9.	If Changes Occur Above Sin NONE			Reasons:
10.	Power Level To Which Rest			le):
	Reasons for Restrictions, NONE			
	Report Period Hrs	MONTH 720.0	YEAR	CUMULATIVE
13.	Hours Reactor Critical	584.8	5,818.2	42,216.2
14.	Rx Reserve Shtdwn Hrs	. 0		1,647.1
15.	Hrs Generator On-Line	551.2	5,652.0	39,740.7
16.	Unit Reserve Shtdwn Hrs			. 0
17.	Gross Therm Ener (MWH)	1,156,675	13,027,212	81,454,498
18.	Gross Elec Ener (MWH)	401,745	4,352,631	26,899,679
19.	Net Elec Ener (MWH)	388,170	4,224,331	25,838,162
20.	Unit Service Factor	76.6	86.0	60.1
21.	Unit Avail Factor	76.6	86.0	60.1
22.	Unit Cap Factor (MDC Net)	68.2	81.3	49.5
23.	Unit Cap Factor (DER Net)	65.7	78.3	47.6
24.	Unit Forced Outage Rate	23.4	11.7	19.7
25.	Forced Outage Hours	168.8	747.8	9,667.0
	Shutdowns Sched Over Next LOCAL LEAK RATE TESTING:			
	If Currently Shutdown Est			





SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	τı	SHU	TDOW	N S / I	EDUCTIONS ************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-069	09/07/84	s	0.0	В	5					CONTROL ROD IMPROVEMENT.
84-071	09/10/84	F	147.6	н	3					REACTOR SCRAM - LIGHTNING (HURRICANE).
84-073	09/18/84	F	21.2	A	3					REACTOR SCRAM - TSV FAST CLOSURE.
84-075	09/21/84	s	0.0	в	5					ROD SHUFFLE.
84-077	09/28/84	s	0.0	в	5					ROD IMPROVEMENT AND TURBINE VALVE TESTING.

# \* SUMMARY \*

Туре	Reason		Method	System & Component
F-Forced S-Sched	A-Equip Failure F B-Maint or Test G C-Refueling H D-Regulatory Restr E-Operator Trainin & License Exami	-Oper Error I-Other Viction	3-Auto Scram 4-Continued	Exhibit F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)

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

### FACILITY DESCRIPTION

- 1 OCATION
- 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

RELIABILITY COUNCIL

#### FACTITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY

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

IF RESIDENT INSPECTOR......D. MYERS

LICENSING PROJ MANAGER ..... M. GROTENHUIS 

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

108 W. MOORE STREET SCUTHPORT, NORTH CAROLINA 28461

#### INSPECTION SUMMARY

+ INSPECTION JULY 9-13 (84-17): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 33 INSPECTOR-HOURS ON SITE IN THE AREA OF EMERGENCY PREPAREDNESS. VIOLATIONS - (1) FAILURE TO RENEW LETTERS OF AGREEMENT WITH SOME OF THE OFFSITE SUPPORT GROUPS: (2) FAILURE OF PROCEDURES TO UNAMBIGUOUSLY PROVIDE FOR THE PROMPT ISSUANCE OF THE MINIMUM PROTECTIVE ACTION RECOMMENDATION FOR A GENERAL EMERGENCY. NO DEVIATIONS.

STATUS

INSPECTION AUGUST 13-15 AND 18 (84-24): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED 10 INSPECTOR-HOURS ON SITE IN THE AREA OF SIZING OF PREVIOUSLY IDENTIFIED CRACK INDICATIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 20-23 (84-25): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 13 INSPECTOR-HOURS ON SITE IN THE AREAS OF RADIOACTIVE GASEOUS AND LIQUID WASTE PROCESSING AND EFFLUENTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 21-24 AND SEPTEMBER 13 (84-26): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 11 INSPECTOR-HOURS AT THE BRUNSWICK SITE IN THE AREAS OF TRAINING AND QUALIFICATION, EXTERNAL EXPOSURE CONTROL AND PERSONAL DOSIMETRY, INTERNAL EXPOSURE CONTROL, SURVEYS, MONITORING, AND CONTROL OF RADIDACTIVE MATERIAL, SOLID WASTE AND INSPECTOR FOLLOWUP ITEMS. AN ADDITIONAL 6 INSPECTOR HOURS AT THE HARRIS ENVIRONMENTAL AND ENERGY CENTER (HEEC) INVOLVED THE PERSONNEL THERMOLUMINESCENT DOSIMETER (TLD) QUALITY CONTROL (QC) PROGRAM ADMINISTERED BY THE HEEC FOR ALL CP&L TLD USERS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION SEPTEMBER 5-7 (84-29): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED 11 INSPECTOR-HOURS ON SITE IN THE AREAS OF THE SNUBBER SURVEILLANCE PROGRAM, FLOOD PROTECTION SURVEILLANCE PROCEDURES, RESULTS OF SURVEILLANCE TESTS PERFORMED ON UNIT 2 EXCESS PAGE 2-040

INSPECTION

Report Period SEP 1984

#### INSPECTION SUMMARY

FLOW CHECK VALVES, AND FOLLOWUP OF PREVIOUSLY IDENTIFIED INSPECTOR FOLLOWUP ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

10 CFR 50.54(Q) REQUIRES A LICENSEE TO FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE REQUIREMENTS OF APPENDIX E TO 10 CFR PART 50 AND THE PLANNING STANDARDS OF 50.47(8). SECTION (B)(10) OF 10 CFR 50.47 REQUIRES THAT THE LICENSEE'S EMERGENCY PLANS INCLUDE A RANGE OF PROTECTIVE ACTIONS, CONSISTENT WITH FEDERAL GUIDANCE, FOR THE PLUME EXPOSURE PATHWAY EPZ FOR EMERGENCY WORKERS AND THE PUBLIC. THE FEDERAL GUIDANCE ON PROTECTIVE ACTIONS TO BE RECOMMENDED TO OFFSITE OFFICIALS IS FOUND IN APPENDIX 1 OF NUREG-0654/FEMA-REP-1, REV. 1, ENTITLED "CRITERIA FOR PREPARATION AND EVALUATION OF RADIOLOGICAL EMERGENCY RESPONSE PLANS AND PREPAREDNESS IN SUPPORT OF NUCLEAR POWER PLANTS". THIS GUIDANCE IS CLARIFIED BY IE INFORMATION NOTICE NO. 83-28, "CRITERIA FOR PROTECTIVE ACTION RECOMMENDATIONS FOR GENERAL EMERGENCIES". CONTRARY TO THE ABOVE, THE LICENSEE'S IMPLEMENTING PROCEDURES DO NOT UNAMBIGUOUSLY DIRECT THE SITE EMERGENCY COORDINATOR TO PROMPTLY PROVIDE OFFSITE AUTHORITIES WITH AN APPROPRIATE PROTECTIVE ACTION RECOMMENDATION (AT MINIMUM, SHELTER 2 MILES RADIALLY AND 5 MILES DOWNWIND) UPON DECLARATION OF A GENERAL EMERGENCY. (8417 4)

10 CFR 50.54(Q) REQUIRES A LICENSEE TO FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANTS WHICH MEET CERTAIN PLANNING STANDARDS AND CRITERIA. SECTION 6.2.3 OF THE LICENSEE'S EMERGENCY RESPONSE PLAN SPECIFIES THAT AGREEMENTS WITH OFFSITE SUPPORT ORGANIZATIONS ARE TO BE REVIEWED AND UPDATED AT LEAST EVERY 2 YEARS. CONTRARY TO THE ABOVE, SEPARATE AGREEMENTS (CONTAINED IN APPENDIX B TO THE EMERGENCY RESPONSE PLAN) WITH 4 OFFSITE ORGANIZATIONS WERE FOUND TO BE MORE THAN 2 YEARS OLD. (8417 5)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILI Y ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

ROUTINE OPERATION.

LAST IE SITE INSPECTION DATE: SEPTEMBER 5-7, 1984 +

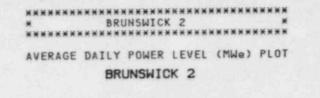
INSPECTION REPORT NO: 50-325/84-29 +

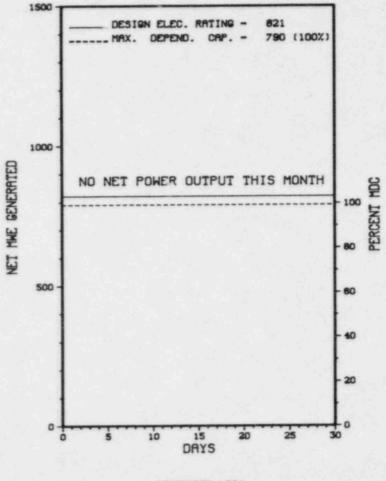
# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-012	07/28/84	08/27/84	AUTOMATIC ACTUATION OF CONTROL BLDG EMERGENCY AIR FILTRATION TRAIN A RESULTED FROM A PAILURE OF THE HIGH VOLTAGE TRANSFORMER.
84-014	08/01/84	08/31/84	A UNIT 1 AUTOMATIC REACTOR SCRAM OCCURRED DUE TO A REACTOR AVERAGE POWER RANGE MONITOR UPSCALE TRIP DUE TO ELECTRONIC KEYING OF TWO-WAY RADIOS.
84-016	08/07/84	09/05/84	LOSS OF PLANT EMERGENCY 4160 VAC BUS E-3 FEEDER BREAKER 2D TRIPPED AS A RESULT OF A DESIGN MISAPPLICATION OF THE DEGRADED VOLTAGE RELAY DEVICES OF E-3.

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1. Docket: 50-324 0	PERAT	ING S	TATUS
2. Reporting Period:	4_ Outage	+ On-line	Hrs: 720.0
3. Utility Contact: FRANCES	HARRISON (	919) 457-95	21
4. Licensed Thermal Power (MW	t):		2436
5. Nameplate Rating (Gross MW	e):	963 X 0	.9 = 867
6. Design Electrical Rating (	Net MWe):		821
7. Maximum Dependable Capacit	y (Gross M	de):	815
8. Maximum Dependable Capacit	y (Net MWe	):	790
9. If Changes Occur Above Sin	ce Last Re	port, Give	Reasons:
NONE			
10. Power Level To Which Restr	icted, If	Any (Net MW	e):
11. Reasons for Restrictions,	If Any:		
NONE			
12. Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 78,120.0
13. Hours Reactor Critical	. 0	1,604.3	46,331.6
14. Rx Reserve Shtdwn Hrs	. 0		. 0
15. Hrs Generator On-Line		1,566.9	43,352.5
16. Unit Reserve Shtdwn Hrs	. 0		. 0
17. Gross Therm Ener (MWH)	0	3,355,120	81,931,834
18. Gross Elec Ener (MWH)	0	1,110,430	27,220,128
19. Net Elec Ener (MWH)	-7,196	1,041,333	26.068,951
20. Unit Service Factor	. 0	23.8	55.5
21. Unit Avail Factor	. 0	23.8	55.5
22. Unit Cap Factor (MDC Net)		20.0	42.2
23. Unit Cap Factor (DER Net)		19.3	40.6
24. Unit Forced Outage Rate		2.2	17.5
25. Forced Outage Hours		35.5	9,638.9
26. Shutdowns Sched Over Next NONE	6 Months (	Type,Date,I	Duration):
27. If Currently Shutdown Est	imated Star	tup Date:	10/10/84





SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	I I	SHU	TDO	WI	NS	,	RE	D	) c	T I	I O	N	s	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	Syst	em i	Comp	onen	Ŧ _		(	Caus	se	8 (	Corr	ective Action to Prevent Recurrence
84-020	03/12/84	s	720.0	с	4			RC		FUE	LXX	R	EFUE	ELIN	NG/N	1 A I	NTE	ENAN	ICE OUTAGE CONTINUES.

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)

# 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 FLEC ENER IST GENER ... APRIL 29, 1975

DATE COMMERCIAL OPERATE.... NOVEMBER 3, 1975

CONDENSER COOLING METHOD... ONCE THRU

CONDENSER COOLING WATER....CAPE FEAR RIVER

ELECTRIC RELIABILITY

# FACILITY DATA

#### UTILITY & COMIRACTOR INFORMATION

UTILITY LICENSEE.....CAROLINA POWER & LIGHT

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.....D. MYERS

LICENSE & DATE ISSUANCE.... DPR-62, DECEMBER 27, 1974

PUBLIC DOCUMENT ROOM.....SOUTHPORT-BRUNSWICK COUNTY LIBRARY 108 W. MOORE STREET SOUTHPORT, NORTH CAROLINA 28461

#### INSPECTION STATUS

#### INSPECTION SUMMARY

+ INSPECTION JULY 9-13 (84-17): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 32 INSPECTOR-HOURS ON SITE IN THE AREA OF EMERGENCY PREPAREDNESS. VIOLATIONS - (1) FAILURE TO RENEW LETTERS OF AGREEMENT WITH SOME OF THE OFFSITE SUPPORT GROUPS; (2) FAILURE OF PROCEDURES TO UNAMBIGUOUSLY PROVIDE FOR THE PROMPT ISSUANCE OF THE MINIMUM PROTECTIVE ACTION RECOMMENDATION FOR A GENERAL EMERGENCY. NO DEVIATIONS.

INSPECTION AUGUST 13-15 AND 18 (84-24): THIS SPECIAL ANNOUNCED INSPECTION INVOLVED 10 INSPECTOR-HOURS ON SITE IN THE AREA OF SIZING OF PREVIOUSLY IDENTIFIED CRACK INDICATIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 20-23 (84-25): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 13 INSPECTOR-HOURS ON SITE IN THE AREAS OF RADIOACTIVE GASEOUS AND LIQUID WASTE PROCESSING AND EFFLUENTS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 21-24 AND SEPTEMBER 13 (84-26): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 11 INSPECTOR-HOURS AT THE BRUNSWICK SITE IN THE AREAS OF TRAINING AND QUALIFICATION, EXTERNAL EXPOSURE CONTROL AND PERSONAL DOSIMETRY, INTERNAL EXPOSURE CONTROL, SURVEYS, MONITORING, AND CONTROL OF RADIOACTIVE MATERIAL, SOLID WASTE AND INSPECTOR FOLLOWUP ITEMS. AN ADDITIONAL 6 INSPECTOR HOURS AT THE HARRIS ENVIRONMENTAL AND ENERGY CENTER (HEEC) INVOLVED THE PERSONNEL THERMOLUMINESCENT DOSIMETER (TLD) QUALITY CONTROL (QC) PROGRAM ADMINISTERED BY THE HEEC FOR ALL CP&L TLD USERS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION SEPTEMBER 5-7 (84-29): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED 10 INSPECTOR HOURS ON SITE IN THE AREAS OF THE SNUBBER SURVEILLANCE PROGRAM, FLOOD PROTECTION SURVEILLANCE PROCEDURES, RESULTS OF SURVEILLANCE TESTS PERFORMED ON UNIT 2 EXCESS PAGE 2-046

Report Period SEP 1984

#### INSPECTION SUMMARY

FLOW CHECK VALVES, AND FOLLOWUP OF PREVIOUSLY IDENTIFIED INSPECTOR FOLLOWUP ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

10 CFR 50.54(Q) REQUIRES A LICENSEE TO FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE REQUIREMENTS OF APPENDIX E TO 10 CFR PART 50 AND THE PLANNING STANDARDS OF 50.47(B). SECTION (B)(10) OF 10 CFR 50.47 REQUIRES THAT THE LICENSEE'S EMERGENCY PLANS INCLUDE A RANGE OF PROTECTIVE ACTIONS, CONSISTENT WITH FEDERAL GUIDANCE, FOR THE PLUME EXPOSURE PATHWAY EPZ FOR EMERGENCY WORKERS AND THE PUBLIC. THE FEDERAL GUIDANCE ON PROTECTIVE ACTIONS TO BE RECOMMENDED TO OFFSITE OFFICIALS IS FOUND IN APPENDIX 1 OF NUREG-0654/FEMA-REP-1, REV. 1, ENTITLED "CRITERIA FOR PREPARATION AND EVALUATION OF RADIOLOGICAL EMERGENCY RESPONSE PLANS AND PREPAREDNESS IN SUPPORT OF NUCLEAR POWER PLANTS". THIS GUIDANCE IS CLARIFIED BY IE INFORMATION NOTICE NO. 83-28, "CRITERIA FOR PROTECTIVE ACTION RECOMMENDATIONS FOR GENERAL EMERGENCIES". CONTRARY TO THE ABOVE, THE LICENSEE'S IMPLEMENTING PROCEDURES DO NOT UNAMBIGUOUSLY DIRECT THE SITE EMERGENCY COORDINATOR TO PROMPTLY PROVIDE OFFSITE AUTHORITIES WITH AN APPROPRIATE PROTECTIVE ACTION RECOMMENDATION (AT MINIMUM, SHELTER 2 MILES RADIALLY AND 5 MILES DOWNWIND) UPON DECLARATION OF A GENERAL EMERGENCY.

10 CFR 50.54(Q) REQUIRES A LICENSEE TO FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANTS WHICH MEET CERTAIN . LANNING STANDARDS AND CRITERIA. SECTION 6.2.3 OF THE LICENSEE'S EMERGENCY RESPONSE PLAN SPECIFIES THAT AGREEMENTS WITH OFFSITE SUPPORT ORGANIZATIONS ARE TO BE REVIEWED AND UPDATED AT LEAST EVERY 2 YEARS. CONTRARY TO THE ABOVE, SEPARATE AGREEMENTS (CONTAINED IN APPENDIX B TO THE EMERGENCY RESPONSE PLAN) WITH 4 OFFSITE ORGANIZATIONS WERE FOUND TO BE MORE THAN 2 YEARS OLD.

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

REFUEL AND MAINTENANCE OUTAGE.

LAST IE SITE INSPECTION DATE: SEPTEMBER 5-7, 1984 +

INSPECTION REPORT NO: 50-324/84-29 +

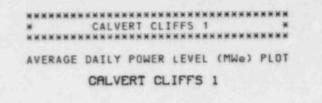
port Perio	d SEP 1984		REPORTS FROM LICENSEE * BRUNSWICK 2 * *********************************
==========			
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-008	07/27/84	08/20/84	AN RPS AUTOMATIC TRIP SIGNAL ON BOTH SYSTEM LOGIC CHANNELS A AND B OCCURRED. TECHNICIANS WERE CAUTIONED TO BE EXTREMELY CAREFUL WHEN USING AIR LINE RESPIRATORS.

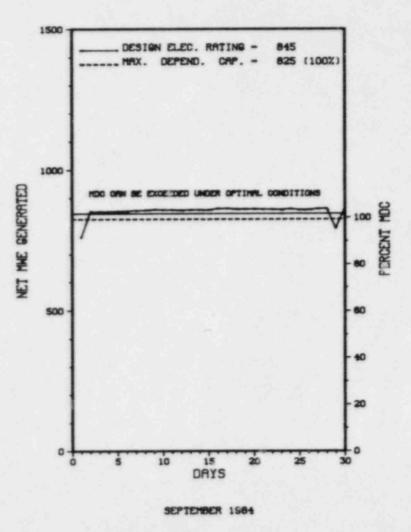
PAGE 2-048

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1.	Docket: 50-317 0	PERAT	ING S	TATUS				
	Reporting Period: 09/01/8							
	Utility Contact: EVELYN B							
	Licensed Thermal Power (MM			2700				
	Nameplate Rating (Gross MW			1020 X 0.9 = 918				
	Design Electrical Rating (							
	Maximum Dependable Capacit							
	Maximum Dependable Capacit							
	If Changes Occur Above Sir							
	NONE							
	Power Level To Which Restr		Any (Net Mk	le):				
	Reasons for Restrictions,							
	NONE							
	Beent Beeled Has	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 82,404.0				
	Report Period Hrs			65,739.3				
	Hours Reactor Critical			1,887.9				
	Rx Reserve Shtdwn Hrs	.0						
	Hrs Generator On-Line			64,455.4				
	Unit Reserve Shtdwn Hrs	.0	.0					
				159,313,244				
	Gross Elec Ener (MWH)			52,535,161				
	Net Elec Ener (MWH)			50, 121, 236				
	Unit Service Factor							
	Unit Avail Factor							
	Unit Cap Factor (MDC Net)							
	Unit Cap Factor (DER Net)							
	Unit Forced Outage Rate							
	Forced Outage Hours							
26.	Shutdowns Sched Over Next NONE	6 Months	(Type,Date,	Duration):				
27	If Currently Shutdown Est	imated Star	tuo Date:	N/A				





\* Item calculated with a Weighted Average

Report Period SEP 1984	UNIT SHUTDOWNS / R	E D U C T I O N S * CALVERT CLIFFS 1 *
No. Date Type Hours Reason	Method LER Number System Component	Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*\*\*\*\*\*\* CALVERT CLIFFS 1 OPERATED WITH NO OUTAGES OR REDUCTIONS DURING SEPTEMBER. \* SUMMARY \*

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)

# 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	JANUARY 3, 1975
DATE COMMERCIAL OPERATE	MAY 8, 1975
CONDENSER COOLING METHOD	ONCE THRU
CONDENSER COOLING WATER	CHESAPEAKE BAY
ELECTRIC RELIABILITY COUNCIL	MID-ATLANTIC AREA COUNCIL

#### FACILITY DATA

Report Period SEP 1984

# 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

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

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

# INSPECTION STATUS

# INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

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

## OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

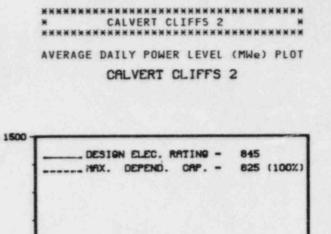
INSPECTION REPORT NO: NO INPUT PROVIDED.

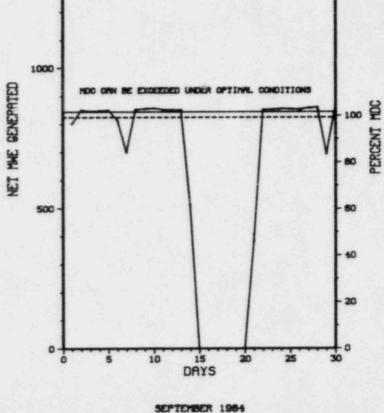
## REPORTS FROM LICENSEE

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

|--|

2.	Docket: <u>50-318</u> Reporting Period: <u>09/01/8</u> Utility Contact: <u>EVELYN</u> B	14 Outage	+ On-line	Hrs: 720.0			AVERAGE DA	ALVERT (	*****	*****
	Licensed Thermal Power (MM			2700			the second second	ALVERT		
	Nameplate Rating (Gross M									17
	Design Electrical Rating (									
						1500 -				
	Maximum Dependable Capacit Maximum Dependable Capacit						DESI	ON ELEC.	RATING	- 8
	If Changes Occur Above Sir						MAX.	DEPEND.	CRP.	- 8
	Power Level To Which Restr Reasons for Restrictions, NONE					1000 -				
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 65,759.0	3			EXCREDED UN	DER OPTIN	WIL CON
13.	Hours Reactor Critical	566.9	4,431.4	54,359.2	GENEPATED		7			
14.	Rx Reserve Shtdwn Hrs			958.1			I V	1		
15.	Hrs Generator On-Line	563.2	4,319.1	53,434.3	3		1	1		
16.	Unit Reserve Shtdwn Hrs	. 0			NET NET			1		
17.	Gross Therm Ener (MWH)	1,460,601	11,150,860	132,992,553		500 -				
18.	Gross Elec Ener (MWH)	483,684	3,664,382	43,733,668						
19.	Net Elec Ener (MWH)	460,903	3,495,267	41,699,029			1.1.1	10.00		1
20.	Unit Service Factor		65.7	81.3			2 - 2k	100	1.68	1
21.	Unit Avail Factor		65.7	81.3			1.11			
22.	Unit Cap Factor (MDC Net)	77.6	64.4	<u>77.3</u> *						1
23.	Unit Cap Factor (DER Net)	75.8	62.9	75.0					1.1	
24.	Unit Forced Outage Rate	21.8	10.9	6.3		0-	0 5			20
25.	Forced Outage Hours	156.8	526.8	3,572.0				DF	AYS	
26.	Shutdowns Sched Over Next NONE	6 Months (	Type, Date, I	Duration):				SEPTEM	ER 198	4





Repor	t Period S	EP 19	84		UN	ΙT	SHU	TDOW	N	s /	R	E	DU	с	T	1 (	0			(	CALVER	TC	LIFFS	2		1	×
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Co	mpone	nt	_	_	(	Cau	50	8	Correc	tive	Act	ion to	Pr	event	Rec	urre	nce	
84-08	09/14/84	F	156.8	A	1			RC	c	RDRVE		TH	EC	ORI	Ε.	SI	HU	TO LESS TDOWN C WAS FO	OMME	NCED	WHEN						

\*\*\*\*\*\*\*\*\*\* CALVERT CLIFFS 2 OPERATED WITH 1 OUTAGE FOR EQUIPMENT FAILURE. \* SUMMARY \*

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)

#### 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

## FACILITY DATA

Report Period SEP 1984

#### 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....D. JAFFE 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 SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

## OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

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

## OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

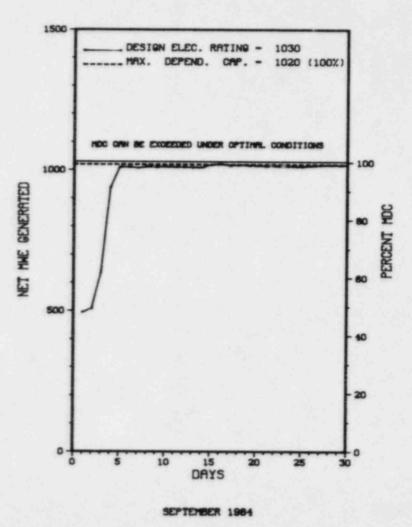
INSPECTION REPORT NO: NO INPUT PROVIDED.

## REPORTS FROM LICENSEE

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

				TATUS
2.	Reporting Period: _09/01/	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: W. T. G	ILLETT (61	6) 465-5901	
4.	Licensed Thermal Power (M	Wt):		3250
5.	Nameplate Rating (Gross M	We):	1280 X	0.9 = 1152
	Design Electrical Rating			
7.	Maximum Dependable Capaci	ty (Gross !	1We):	1056
8.	Maximum Dependable Capaci	ty (Net MW	2):	1020
	If Changes Occur Above Sin NONE	nce last R	aport, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	We):
	Reasons for Restrictions,			
<u> </u>	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 85,463.0
13.	Hours Reactor Critical	720.0	5,876.9	
14.	Rx Reserve Shtdwn Hrs			463.0
15.	Hrs Generator On-Line	720.0	5,808.8	62,152.5
16.	Unit Reserve Shtdwn Hrs			321.0
17.	Gross Therm Ener (MWH)	2,229,693	17,754,597	181,836,211
18.	Gross Elec Ener (MWH)	721,400	5,792,250	59,718,540
19.	Net Elec Ener (MWH)	694,907	5,577,697	57,458,037
20.	Unit Service Factor	100.0	88.3	74.5
21.	Unit Avail Factor	100.0	88.3	74.5
22.	Unit Cap Factor (MDC Net)	94.6	83.2	67.6
23.	Unit Cap Factor (DER Net)	93.7	82.4	64.9
24.	Unit Forced Outage Rate		6.7	7.7
25.	Forced Outage Hours		418.6	4,499.4
26.	Shutdowns Sched Over Next	6 Months (	Type, Date, I	Duration):
1.1.1	REFUELING & MAINTENANCE: (	3/19/85 -	4 MONTHS.	

×	×	×	×	ĸ:	6	63	63	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	ĸ	×	×	×	×	×	×	×	×	×	×	
*														C	0	0	K		1																×	
×	*	×	*	*	<b>K</b> )	63	63	£.	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	*	×	×	×	×	
A	V	E	R	A	GE	111	1	D	A	I	L	Y		P	0	W	E	R		L	E	v	E	L		¢	M	W	e	)		P	L	0	Ţ	
														C	C	0	K	¢	1	L																



Report	Period SI	EP 19	84		UN	τī	SHU	TDOW	NS / R	EDUCTIONS ************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
229	08/31/84	F	0.0	8	5			нн	TURBIN	THE POWER REDUCTION WHICH STARTED ON 840831 TO REPAIR THE EAST MAIN FEED PUMP TURBINE INBOARD BEARING CONTINUED UNTIL 840902 WHEN THE EAST MFPT WAS RETURNED TO SERVICE. 100% REACTOR POWER WAS REACHED ON 840904.

COOK 1 OPERATED WITH 1 REDUCTION FOR MAINTENANCE DURING SEPTEMBER. \*\*\*\*\*\*\*\*

\* SUMMARY \*

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)

**************************************	ITY DATA Report Period SEP 1984
FACILITY DESCRIPTION	UTILITY & CONTRACTOR INFORMATION
LOCATION STATEMICHIGAN	UTILITY LICENSEEINDIANA & MICHIGAN ELECTRIC
COUPTYBERRIEN	CORPORATE ADDRESS 1 RIVERSIDE PLAZA
DIST AND DIRECTION FROM NEAREST POPULATION CTR11 MI S OF BENTON HARBOR, MI	COLUMBUS, OHIO 43216 CONTRACTOR ARCHITECT/ENGINEERAMERICAN ELEC. POWER SERVICE CORP.
TYPE OF REACTORPWR	NUC STEAM SYS SUPPLIER WESTINGHOUSE
DATE INITIAL CRITICALITYJANUARY 18, 1975	CONSTRUCTOR AMERICAN ELEC. POWER SERVICE CORP.
DATE ELEC ENER 1ST GENER FEBRUARY 10, 1975	TURBINE SUPPLIERGENERAL ELECTRIC
DATE COMMERCIAL OPERATE AUGUST 27, 1975	REGULATORY INFORMATION
CONDENSER COOLING METHOD ONCE THRU	IE REGION RESPONSIBLEIII
CONDENSER COOLING WATERLAKE MICHIGAN	IE RESIDENT INSPECTORE. SWANSON
ELECTRIC RELIABILITY COUNCILEAST CENTRAL AREA RELIABILITY COORDINATION	LICENSING PROJ MANAGERD. WIGGINTON DOCKET NUMBER50-315
AGREEMENT	LICENSE & DATE ISSUANCEDPR-58, OCTOBER 25, 1974
	PUBLIC DOCUMENT ROOMMAUDE PRESTON PALENSKE MEMORIAL LIBRARY 500 MARKET STREET ST. JOSEPH, MICHIGAN 49085
INSPECT	ION STATUS

#### INSPECTION SUMMARY

INSPECTION ON JUNE 11, THROUGH JULY 27, (84-12): ROUTINE UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; LICENSEE EVENT REPORTS; BULLETINS; MAINTENANCE; REFUELING; PLANT TRIP; REGIONAL REQUEST; AND MANAGEMENT MEETING - REGULATORY PERFORMANCE IMPROVEMENT PROGRAM (RPIP). THIS INSPECTION INVOLVED A TOTAL OF 381 INSPECTOR-HOURS BY THREE NRC INSPECTORS INCLUDING 73 INSPECTOR-HOURS DURING OFF-SHIFTS. OF THE TEN AREAS INSPECTED NO ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN EIGHT AREAS; THREE ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN ONE AREA AND ONE ITEM OF NONCOMPLIANCE WAS IDENTIF'ED IN THE REMAINING AREA (SECURING A REACTOR COOLANT PUMP WITHOUT TRIPPING THE REQUIRED BISTABLES, FAILURE TO COMPLY WITH THE ALARM RESPONSE PROCEDURE, INADEQUATE PROCEDURE FOR ESTABLISHING RECIRCULATION FLOW; TWO SAFETY INJECTION PUMPS SIMULTANEOUSLY INOPERABLE).

INSPECTION ON AUGUST 15-17 AND SEPTEMBER 5 AND 6, (84-17): ROUTINE, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM INCLUDING INTERNAL AND EXTERNAL EXPOSURE CONTROL, ORGANIZATION AND STAFF QUALIFICATIONS, CONTAMINATION CONTROL, ALARA PROGRAM, ESF AIR FILTER HOUSING SYSTEMS, SELECTED TMI ACTION ITEMS, AND OPEN ITEMS. THE INSPECTION INVOLVED 60 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

UNIT 1 TECHNICAL SPECIFICATION 6.8.1.C STATES WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED FOR SURVEILLANCE

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### ENFORCEMENT SUMMARY

AND TEST ACTIVITIES OF SAFETY RELATED EQUIPMENT. THE EMERGENCY CORE COOLING SYSTEM OPERABILITY SURVEILLANCE TEST (1 OHP 4030 STP.005) AT PARAGRAPH 4.1 REQUIRES THAT THIS TEST SHALL BE PERFORMED ON ONLY ONE EMERGENCY CORE COOLING SYSTEM TRAIN AT A TIME. CONTRARY TO THE ABOVE ON JULY 16, 1984 AT 0445, WHILE PERFORMING 1 OHP 4030 STP.005 TO VERIFY OPERABILITY OF THE "S" SAFETY INJECTION PUMP CHECK VALVES THE LICENSEE MADE TWO SAFETY INJECTION PUMPS INOPERABLE. (8412 4)

UNIT 1 TECHNICAL SPECIFICATION 6.8.1.A REQUIRES IMPLEMENTATION OF PROCEDURES RECOMMENDED IN APPENDIX "A" OF REGULATORY GUIDE 1.33, NOVEMBER 1972. THIS INCLUDES PROCEDURE FOR CORRECTING ABNORMAL, OFF-NORMAL OR ALARM CONDITIONS. CONTRARY TO THE ABOVE, ON JULY 23. 1984 AN ALARM WAS RECEIVED FOR LOOP 1, 2,3,4 TAVG LOW-LOW WITHOUT THE LICENSEE IMPLEMENTING ALL OF THE ACTION OF ANNUNCIATOR RESPONSE PROCEDURE 1 OHP 4024.111.002. (8412 5)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT IS OPERATING ROUTINELY.

LAST IE SITE INSPECTION DATE: OCTOBER 1-26, 1984

INSPECTION REPORT NO: 84-20

Report Period SEP 1984

# REPORTS FROM LICENSEE

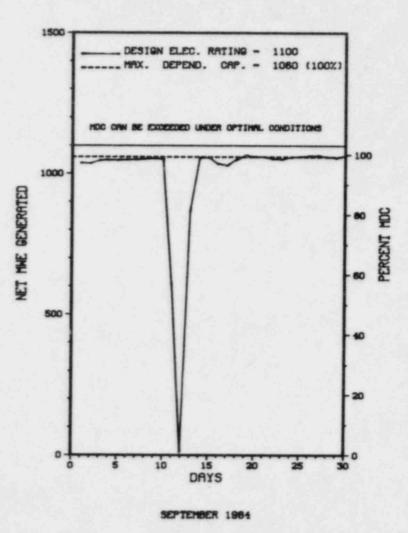
*********		**********	
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-16	08/08/84	09/06/84	AUX FEEDWATER NOT IN AUTO
84-17	08/10/84	09/06/84	ESF ACTUATION
84-18	08/14/84	09/13/84	REACTOR TRIP AND SAFETY INJECTION DUE TO LOSS OF CRID
84-19	08/18/84	09/17/84	TURBINE DRIVEN AUXILIARY FEED PUMP GOVERNOR VALVE POSITIONING
84-20	08/22/84	09/20/84	OBSTRUCTION OF FIRE DAMPERS

PAGE 2-063

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1.	Docket: 50-316	OPERA	TINGS	TATUS
2.	Reporting Period:	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: W. T. G	ILLETT (61	6) 465-5901	
4.	Licensed Thermal Power (M	Wt):		3411
5.	Nameplate Rating (Gross M	We):	1333 X	0.85 = 1133
	Design Electrical Rating			
7.	Maximum Dependable Capaci	ty (Gross I	MWe):	1100
8.	Maximum Dependable Capaci	ty (Net MW	e):	1060
9.	If Changes Occur Above Si NONE	nce Last Ri	eport, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	le):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0		CUMULATIVE 59,159.0
13.	Hours Reactor Critical	700.8	3,582.4	41,367.6
14.	Rx Reserve Shtdwn Hrs			
15.	Hrs Generator On-Line	691.1	3,496.8	40,297.0
16.	Unit Reserve Shtdwn Hrs		0	.0
17.	Gross Therm Ener (MWH)	2,325,725	11,489,712	129,942,680
18.	Gross Elec Ener (MWH)		3,733,550	41,959,980
19.	Net Elec Ener (MWH)	719,121	3,603,327	40,456,680
20.	Unit Service Factor	96.0	53.2	70.9
21.	Unit Avail Factor	96.0	53.2	70.9
22.	Unit Cap Factor (MDC Net)	94.2	51.7	67.7
23.	Unit Cap Factor (DER Net)	90.8	49.8	66.4
24.	Unit Forced Outage Rate	4.0	3.1	13.0
25.	Forced Outage Hours	28.9	111.8	5,962.7
26.	Shutdowns Sched Over Next	6 Months (	Type, Date, D	)uration):
_	REFUELING & MAINTENANCE:	12/22/84 -	2 WEEKS.	
27.	If Currently Shutdown Est	imated Star	tup Date:	N/A

*******	*****	*****	*****	*****	****
×		COOK :	2		×
******	*****	*****	******	*****	****
AVERAGE	DAILY	POWER	LEVEL	(MWe)	PLOT
		COOK	2		



Report	Period SI	EP 19	84		UN	іт ѕни	троы	NS / R	E D U C T I O N S
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
149	09/11/84	F	16.1	A	3	84-024-00	EF	INSTRU	A REACTOR/TURBINE TRIP OCCURRED FROM 100% POWER DUE TO A FAILURE OF VITAL A.C. INSTRUMENT BUS, CRIJ III, INVERTER. THE INVERTER FAILURE WAS DUE TO A FAILED CAPACITOR, C-2. THE INVERTER WAS REPAIRED AND THE UNIT RETURNED TO SERVICE AT 0722 HOURS ON 840912.
150	09/12/84	F	12.8	G	3	84-025-00	ZZ	ZZZZZZ	AT 0733 HOURS, 11 MINUTES AFTER THE UNIT WAS PARALLELED, A TURBINE/REACTOR TRIP OCCURRED DUE TO HIGH-HIGH WATER LEVEL IN NO. 2 STEAM GENERATOR. THE HIGH STEAM GENERATOR WATER LEVEL OCCURRED DUE TO GREFEEDING THE STEAM GENERATOR, CAUSED BY A COMBINATION OF OPERATOR ERROR AND LEVEL CONTROL PROBLEMS WHILE WITH FEEDWATER CONTROL IN MANJAL.

\*\*\*\*\*\*\*\*\*\* COOK 2 OPERATED WITH 2 OUTAGES DURING SEPTEMBER.

\* SUMMARY \*

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

* COOK 2 * **********************************	ILITY DATA Report Period SEP 1984
FACILITY DESCRIPTION	UTILITY & CONTRACTOR INFORMATION
LOCATION STATEMICHIGAN	UTILITY LICENSEEINDIANA & MICHIGAN ELECTRIC
COUNTYBERRIEN	CORPORATE ADDRESS 1 RIVERSIDE PLAZA COLUMBUS, DHIO 43216
DIST AND DIRECTION FROM NEAREST POPULATION CTR11 MI S OF BENTON HARBOR, MI	CONTRACTOR ARCHITECT/ENGINEERAMERICAN ELEC. POWER SERVICE CORP.
TYPE OF REACTORPWR	NUC STEAM SYS SUPPLIERWESTINGHOUSE
DATE INITIAL CRITICALITYMARCH 10, 1978	CONSTRUCTORJ. A. JONES CONSTRUCTION
DATE ELEC ENER 1ST GENERMARCH 22, 1978	TURBINE SUPPLIERBROWN BOVERI
DATE COMMERCIAL OPERATEJULY 1, 1978	REGULATORY INFORMATION
CONDENSER COOLING METHODONCE THRU	IE REGION RESPONSIBLEIII
CONDENSER COOLING WATERLAKE MICHIGAN	IE RESIDENT INSPECTORE. SWANSON
ELECTRIC RELIABILITY COUNCILEAST CENTRAL AREA	LICENSING PROJ MANAGERD. WIGGINTON DOCKET NUMBER
RELIABILITY COORDINATIO AGREEMENT	LICENSE & DATE ISSUANCEDPR-74, DECEMBER 23, 1977
	PUBLIC DOCUMENT ROOMMAUDE PRESTON PALENSKE MEMORIAL LIBRARY 500 MARKET STREET ST. JOSEPH, MICHIGAN 49085

### INSPECTION SUMMARY

INSPECTION ON JUNE 11, THRGUGH JULY 27, (84-14): ROUTINE UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; SURVEILLANCE; LICENSEE EVENT REPORTS; BULLETINS; MAINTENANCE; REFUELING; PLANT TRIP; REGIONAL REQUEST; AND MANAGEMENT MEETING - REGULATORY PERFORMANCE IMPROVEMENT PROGRAM (RPIP). THIS INSPECTION INVOLVED A TOTAL OF 381 INSPECTOR-HOURS BY THREE NRC INSPECTORS INCLUDING 73 INSPECTOR-HOURS DURING OFF-SHIFTS. OF THE TEN AREAS INSPECTED NO ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN EIGHT AREAS; THREE ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN ONE AREA AND ONE ITEM OF NONCOMPLIANCE WAS IDENTIFIED IN THE REMAINING AREA (SECURING A REACTOR COOLANT PUMP WITHOUT TRIPPING THE REQUIRED BISTABLES, FAILURE TO COMPLY WITH THE ALARM RESPONSE PROCEDURE, INADEQUATE PROCEDURE FOR ESTABLISHING RECIRCULATION FLOW; TWO SAFETY INJECTION PUMPS SIMULTANEOUSLY INOPERABLE).

INSPECTION ON AUGUST 15-17 AND SEPTEMBER 5 AND 6, (84-19): ROUTINE, UNANNOUNCED INSPECTION OF THE RADIATION PROTECTION PROGRAM INCLUDING INTERNAL AND EXTERNAL EXPOSURE CONTROL, ORGANIZATION AND STAFF QUALIFICATIONS, CONTAMINATION CONTROL, ALARA PROGRAM, ESF AIR FILTER HOUSING SYSTEMS, SELECTED TMI ACTION ITEMS, AND OPEN ITEMS. THE INSPECTION INVOLVED 60 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

UNIT 2 TECHNICAL SPECIFICATION 6.8.1.A REQUIRES THAT WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED COVERING

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### ENFORCEMENT SUMMARY

THE ACTIVITIES RECOMMENDED IN APPENDIX "A" OF REGULATORY GUIDE 1.33, NOVEMBER 1972. THIS INCLUDES PROCEDURES FOR LOSS OF COOLANT. CONTRARY TO THE ABOVE, WITH THE UNIT IN MODE 4 AND MANUAL VALVE RH-104W CLOSED THE PROCEDURE FOR INITIATION OF EMERGENCY CORE COOLING DID NOT PROVIDE THE INSTRUCTION NECESSARY TO ESTABLISH FLOW TO THE RESIDUAL HEAT REMOVAL PUMP DURING THE RECIRCULATION PHASE OF OPERATION. UNIT 2 TECHNICAL SPECIFICATION 3.3.2.1 STATES..."THE ENGINEERED SAFETY FEATURE ACTUATION SYSTEM (ESFAS) INSTRUMENTATION CHANNELS AND INTERLOCKS SHOWN IN TABLE 3.3-3 SHALL BE OPERABLE...". TABLE 3.3-3, LINE 4C REQUIRES THAT FOR THREE LOOP OPERATION IN MODES 1, 2, AND 3, THE CHANNEL(S) ASSOCIATED WITH THE PROTECTIVE FUNCTIONS DERIVED FROM THE OUT-OF-SERVICE REACTOR COOLANT LOOP SHALL BE PLACED IN THE TRIPPED MODE. CONTRARY TO THE ABOVE ON JULY 10, 1984 AT 0240 WITH THE PLANT IN MODE 3 THE REACTOR COOLANT PUMP FOR LOOP 3 WAS SECURED WITHOUT PLACING THE CHANNELS ASSOCIATED WITH THE PROTECTIVE FUNCTIONS DERIVED FROM THE OUT-OF-SERVICE THE OUT-OF-SERVICE REACTOR COOLANT LOOP IN THE TRIPPED MODE. (8414 4)

### OTHER ITEMS

SYSTEMS AND COMPUNENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS OPERATING ROUTINELY.

LAST IE SITE INSPECTION DATE: OCTOBER 1-26, 1984

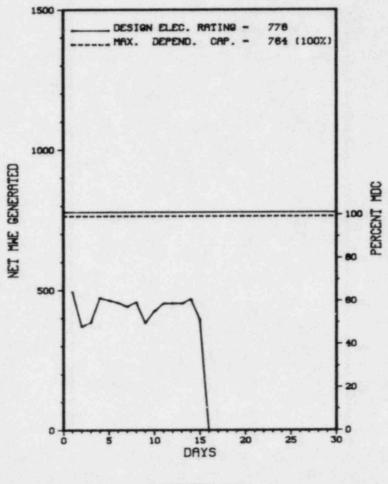
INSPECTION REPORT NO: 84-22

#### REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-20	08/05/84	09/04/84	REACTOR TRIP
84-21	08/07/84	09/06/84	OPERATION OF CONTAINMENT ISOLATION VALVES
84-22	04/05/84	09/13/84	IMPROPERLY ISOLATED CARDOX FIRE PROTECTION SYSTEM

1.	Docket: <u>50-298</u> 0	PERAT	INGS	TATUS
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: M. F. NO	LET (402)	825-3811	
4.	Licensed Thermal Power (MM	1f):	100 <u>- 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100</u>	2381
5.	Nameplate Rating (Gross Mu	le):	<u>983 X (</u>	.85 = 836
6.	Design Electrical Rating (	Net MWe):		778
7.	Maximum Dependable Capacit	y (Gross M	We):	787
8.	Maximum Dependable Capacit	ty (Net MWa	.):	764
9.	If Changes Occur Above Sir	ice Last Re	port, Give	Reasons:
	NONE			
10.	Power Level To Which Restr	icted, If	Any (Net M	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
		MONTH		CUMULATIV
12.	Report Period Hrs	720.0	6,575.0	
13.	Hours Reactor Critical	357.1		
14.	Rx Reserve Shtdwn Hrs			
15.	Hrs Generator On-Line	357.1	5,902.3	71,820.1
16.	Unit Reserve Shtdwn Hrs		0	
17.	Gross Therm Ener (MWH)	507,766	10,926,853	141,440,01
18.	Gross Elec Ener (MWH)	164,055	3,618,141	45,024,49
19.	Net Elec Ener (MWH)	157,718	3,469,953	43, 386, 61
20.	Unit Service Factor	49.6	89.8	79.
	Harld Aveil Feelen	49.6	89.8	79.
21.	Unit Avail Factor			
	Unit Cap Factor (MDC Net)		69.1	63.
22.		28.7		
22. 23.	Unit Cap Factor (MDC Net)	28.7	67.8	62.
22. 23. 24.	Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	<u>28.7</u> <u>28.2</u> 	<u> </u>	<u> </u>
22. 23. 24. 25.	Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Outage Rate	<u>28.7</u> <u>28.2</u> <u>.8</u> <u>2.9</u>	<u>67.8</u> <u>2.2</u> <u>133.4</u>	62. 3. 2,090.

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SEPTEMBER 1984

Report	Period S	EP 19	84		UN	ΙT	SH	JTDO	W	NS /	X = D U C T I O N S         X = X + X + X + X + X + X + X + X + X +
No.	Date	Type	Hours	Reason	Method	LER	Numbe	Syst	em	Compone	Cause & Corrective Action to Prevent Recurrence
84-6	09/15/84	F	2.9	A	2						A RCIC VALVE PACKING STEAM LEAK REQUIRED A CONTROLLED SHUTDOWN. A MANUAL SCRAM WAS INITIATED AT 2106.
	09/16/84	S	360.0	с	9			RC		FUELXX	DUE TO LOW ELECTRICAL LOAD DEMAND AND THE CRITICAL NATURE OF THE UPCOMING OUTAGE SCHEDULE, A MANAGEMENT DECISION WAS MADE TO REMAIN SHUTDOWN AND TO COMMENCE THE 1984 REFUELING AND MAINTENANCE OUTAGE ON 9-16-84.

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)

#### 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

FACILITY DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

CORPORATE ADDRESS......P.O. BOX 499 COLUMBUS, NEBRASKA 68601

CONTRACTOR ARCHITECT/ENGINEER.....BURNS & ROE

nienzievi enveneentittittivonno e koe

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....E. SYLVESTER DOCKET NUMBER.....50-298

LICENSE & DATE ISSUANCE....DPR-46, JANUARY 18, 1974 PUBLIC DOCUMENT ROOM.....AUBURN PUBLIC LIBRARY 1118 15TH STREET

AUBURM, NEBRASKA 68305

#### INSPECTION SUMMARY

INSPECTION CONDUCTED AUGUST 1-2, 1984 (84-16)

SPECIAL, ANNOUNCED INSPECTION OF THE LICENSEE'S PROPOSED RADIATION PROTECTION PROGRAM FOR THE REMOVAL OF EXISTING RECIRCULATION PIPING AND INSTALLATION OF NEW PIPE INCLUDING: PERSONNEL QUALIFICATIONS, STAFFING, TRAINING, EQUIPMENT AND SUPPLIES, PLANNING AND SCHEDULING, ALARA, AND EXPOSURE CONTROLS.

NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

FAILURE TO PERFORM A SAFETY REVIEW OF A CHANGE MADE TO THE FACILITY WHICH IS CONTRARY TO 10 CFR PART 50.59(A)(1). (8411 4)

INSPECTION

FAILURE TO HAVE PROCEDURES FOR MAINTENANCE WHICH IS CONTRARY TO 10 CFR PART 50, APP B, CRITERION V (8411 5)

10 CFR PART 71.5(A) "TRANSPORTATION OF LICENSED MATERIAL" REQUIRES THAT NO LICENSED MATERIAL SHALL BE TRANSPORTED OUTSIDE OF THE

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

*******	******	***************
×	COOPER	STATION *
*******	******	**************

#### ENFORCEMENT SUMMARY

CONFINES OF HIS PLANT UNLESS THE REQUIREMENTS OF THE REGULATIONS APPROPRIATE TO THE MODE OF TRANSPORTATION OF THE DEPARTMENT OF TRANSPORTATION IN 49 CFR PARTS 170-189 ARE MET. 49 CFR PART 173.441(B)3) STATES THAT THE RADIATION DOSE RATE SHALL NOT EXCEED 10 MILLIREM PER HR AT ANY POINT 2 METERS (6.6 FT) FROM THE VERTICAL PLANES REPRESENTED BY THE OUTER LATERAL SURFACES OF THE VEHICLE. CONTRARY TO THE ABOVE, ON MAY 10, 1984, A SHIPMENT OF LICENSED MATERIAL RECEIVED AT THE BEATTY, NEV. LOW LEVEL WASTE SITE WAS FOUND BY A STATE OF NEV INSPECTOR TO HAVE A RADIATION DOSE RATE AT 2 METERS FROM EITHER SIDE OF THE TRAILER IN EXCESS OF 10 MILLIREM PER HR. (8412 3)

SAFEGUARDS INFO - VEHICLE CONTROL (8413 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

PLANT WAS SHUTDOWN ON SEPTEMBER 15, 1984, TO COMMENCE REFUELING/BWR RECIRCULATION SYSTEM PIPING REPLACEMENT. THE OUTAGE IS PRESENTLY SCHEDULED TO LAST FOR 8 MONTHS.

LAST IE SITE INSPECTION DATE: AUGUST 1-2, 1984

INSPECTION REPORT NO: 50-298/8416

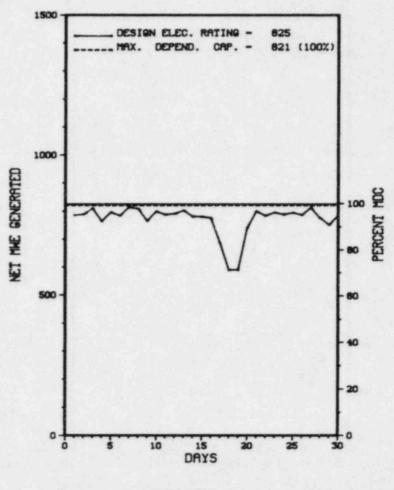
#### REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
L84-010	8/8/84	9/5/84	REACTOR TRIP
L84-011	8/28/84	9/26/84	HIGH PRESSURE COOLANT INJECTION (HPCI) OVERSPEED RIP CONTROL VALVE DIAPHRAGM FAILURE

1.	Docket: 50-302	PERAT	INGS	TATUS
2.	Reporting Period:	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: D. GRAHA	M (904) 79	5-3802	
4.	Licensed Thermal Power (MM	1f):		2544
5.	Nameplate Rating (Gross MM	le):	989 X 0	.9 = 890
6.	Design Electrical Rating	(Net MWe):		825
7.	Maximum Dependable Capacit	ty (Gross M	1We):	860
8.	Maximum Dependable Capacit	ty (Net MWe	:	821
9.	If Changes Occur Above Sin NONE		eport, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net MW	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 66,215.0
13.	Hours Reactor Critical	720.0	6,260.0	43,830.0
14.	Rx Reserve Shtdwn Hrs			1,275.5
15.	Hrs Generator On-Line	720.0	6,218.3	42,837.4
16.	Unit Reserve Shtdwn Hrs	. 0		. 0
17.	Gross Therm Ener (MWH)	1,692,039	14,901,736	96,866,071
18.	Gross Elec Ener (MWH)	582,111	5,135,795	33,062,531
19.	Net Elec Ener (MWH)	554,600	4,895,645	31,412,728
20.	Unit Service Factor	100.0	94.6	64.7
21.	Unit Avail Factor	100.0	94.6	64.7
22.	Unit Cap Factor (MDC Net)	93.8	90.7	57.8
23.	Unit Cap Factor (DER Net)	93.4	90.3	57.5
24.	Unit Forced Outage Rate		1.2	21.4
25.	Forced Outage Hours	. 0	73.9	11,689.2
26.	Shutdowns Sched Over Next			
	REFUELING OUTAGE: MARCH 9 If Currently Shutdown Est			

127.

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A	v	E	R	A	G	E		D	A	1	L	Y		P	0	W	IE	R		L	E	V	E	L		(	M	W	e	)		P	L	0	7	
									C	F	0	1	5	T	A	L		R	1	1	/8	E	R	1	3											



SEPTEMBER 1984

Repor	t Period S	EP 19	84		UN	IT	SHU	TDOW	NS / R	REDUCTIONS * CRYSTAL RIVER 3 * *********************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence	_
84-29	09/17/84	F	0.0	A	5			нс	HTEXCH	REDUCED POWER TO LOCATE AND REPAIR A CONDENSER SALT WATER LEAK. ALSO CLEANED CONDENSER WATERBOXES.	

\*\*\*\*\*\*\*\*\*\* CRYSTAL RIVER 3 OPERATED WITH 1 REDUCTION DURING SEPTEMBER. \* SUMMARY \* \*\*\*\*\*\*\*

Туре	Reason		Method	System & Component		
F-Forced S-Sched	B-Maint or Test	H-Other riction ng	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)		

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#### 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

#### FACILITY DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

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

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

PUBLIC DOCUMENT ROOM.....CRYSTAL RIVER PUBLIC LIBRARY 668 N.W. FIRST CRYSTAL RIVER, FLORIDA 32639 INSPECTION STATUS

#### INSPECTION SUMMARY

+ INSPECTION AUGUST 20-24 (84-25): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 35 INSPECTOR-HOURS ON SITE IN THE AREAS OF LICENSEE EVENT REPORT FOLLOWUP, INSPECTOR ACTION ON PREVIOUS ENFORCEMENT MATTERS, AND INSPECTOR IDENTIFIED FOLLOW-UP ITEMS. NO VIOLATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

CONTRARY TO TECHNICAL SPECIFICATION 6.8.1, FACILITY SURVEILLANCE AND MAINTENANCE PROCEDURES WERE NOT ADHERED TO. (8421 4)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

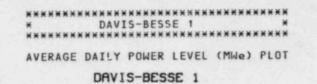
NONE.

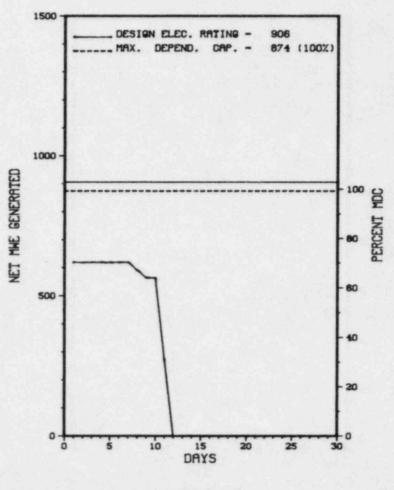
\*\*\*\* CRYSTAL RIVER 3 \*\*\*\*\*\*

## OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES): NONE. MANAGERIAL ITEMS: NONE. PLANT STATUS: NORMAL OPERATIONS. LAST IE SITE INSPECTION DATE: AUGUST 20-24, 1984 + INSPECTION REPORT NO: 50-302/84-25 + REPORTS FROM LICENSEE NUMBER DATE OF DATE OF SUBJECT EVENT REPORT 84-017 07/30/84 08/29/84 A SAMPLE ANALYSIS WAS NOT PERFORMED, APPLICABLE SURVEILLANCE PROCEDURES WILL BE CHANGED.

1.	Docket: <u>50-346</u> 0	PERAT	INGS	TATUS
2.	Reporting Period:	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact:BILAL SA	RSOUR (419	) 259-5000	X384
4.	Licensed Thermal Power (MW	t):		2772
5.	Nameplate Rating (Gross MW	e):	1069 X	0.9 = 962
6.	Design Electrical Rating (	Net MWe):		906
7.	Maximum Dependable Capacit	y (Gross M	We):	918
8.	Maximum Dependable Capacit	y (Net MWe	):	874
9.	If Changes Occur Above Sin	ce Last Re	port, Give	Reasons:
	NONE			
10.	Power Level To Which Restr	icted, If	Any (Net MW	e):
11.	Reasons for Restrictions,	If Any:		
	NONE			
		MONTH	YEAR	CUMULATIVE
12.	Report Period Hrs	720.0	6,575.0	54,096.0
13.	Hours Reactor Critical	252.6		
14.	Rx Reserve Shtdwn Hrs	. 0	134.8	
15.	Hrs Generator On-Line	252.6	5,489.5	
16.	Unit Reserve Shtdwn Hrs	. 0		1,732.1
17.	Gross Therm Ener (MWH)	514,927	13,941,608	74,985,42
18.	Gross Elec Ener (MWH)	163,161	4,554,151	24,846,34
			<u>4,554,151</u> <u>4,291,557</u>	
19.				23,290,25
19. 20.	Net Elec Ener (MWH) Unit Service Factor	148,183	4,291,557	23,290,25
19. 20. 21.	Net Elec Ener (MWH) Unit Service Factor	<u>148,183</u> <u>35.1</u> <u>35.1</u>	<u>4,291,557</u> <u>83.5</u> 83.5	23,290,25 68. 61.
19. 20. 21. 22.	Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor	148,183 35.1 35.1 23.5	<u>4,291,557</u> <u>83.5</u> <u>83.5</u> <u>74.7</u>	23,290,259 68. 61. 49.
19. 20. 21. 22. 23.	Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	<u>148, 183</u> <u>35.1</u> <u>35.1</u> <u>23.5</u> <u>22.7</u>	<u>4,291,557</u> <u>83.5</u> <u>83.5</u> <u>74,7</u> <u>72.0</u>	23,290,259 68.1 61.1 49.1 47.1
19. 20. 21. 22. 23. 24.	Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	148,183 35.1 35.1 23.5 22.7 19.0	4,291,557 83.5 83.5 74.7 72.0 11.0	23,290,259 68.1 61.1 49. 47.1 17.
19. 20. 21. 22. 23. 24. 25.	Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Outage Rate	148,183 35.1 35.1 23.5 22.7 19.0 59.4	4,291,557 83.5 83.5 74.7 72.0 11.0 677.5	23,290,256 68.9 61.7 49.7 47.9 17. 7,261.1





SEPTEMBER 1984

Repor	t Period S	EP 19	84		UN	тт сни	тром	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
5	09/11/84	F	59.4	G	3	NP-33-84-13	CD	INSTRU	THE REACTOR TRIPPED BY THE ANTICIPATORY REACTOR TRIP SYSTEM (ARTS) IN RESPONSE TO THE TURBINE TRIP. SEE LER NO. NP-33-84-13 FOR FURTHER DETAILS.
6	09/14/84	s	408.0	c	9		RC	FUELXX	THE REFUELING OUTAGE WAS ENTERED FOLLOWING THE REACTOR TRIP ON 9/11/84 TO PERFORM SCHEDULED MAINTENANCE AND REFUELING WORK.

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)		

#### 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

## FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

CONTRACTOR

ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER... BABCOCK & WILCOX

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

#### RECULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....W. ROGERS

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

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

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

#### INSPECTION SUMMARY

INSPECTION ON JULY 11-13, 25-29, AUGUST 16, SEPTEMBER 7-9, 22, 1983, DECEMBER 1, 1983, AND JANUARY 9, 1984 (83-16): NON ROUTINE, ANNOUNCED INSPECTION FOR IMPLEMENTATION OF & COMPLIANCE TO THE REQUIREMENTS OF 10 CFR 50, APPENDIX R (SECTION III.G, J, O AND L); AND THE FIRE PROTECTION PROGRAM. THE INSPECTION INVOLVED 595 INSPECTOR-HOURS ONSITE BY NINE NRC INSPECTORS INCLUDING 103 INSPECTOR-HOURS DURING OFF SHIFTS; 40 INSPECTOR-HOURS AT AN AUGUST 16, 1983 MEEETING AT NRC HEADQUARTERS IN BETHESDA, MARYLAND; 6 INSPECTOR-HOURS AT A DECEMBER 1, 1983 ENFORCEMENT CONFERENCE; AND 20 INSPECTOR-HOURS IN DECEMBER 1983 AND JANUARY 3-5, 9, 1984 REVIEWING ADDITIONAL MATERIAL SUBMITTED BY THE LICENSEE. EIGHT ITEMS OF NONCOMPLIANCE CONTAINING NINETEEN EXAMPLES WERE IDENTIFIED IN THE TWO AREAS INSPECTED. (ALTERNATIVE SHUTDOWN CAPABILITY DOES NOT MEET THE ACCEPTANCE CRITERIA OF APPENDIX R. PARAGRAPH III.G.3 AND III.L.-PARAGRAPH 4; FAILURE TO PERFORM A SPURIOUS SIGNAL ANALYSIS FOR THE SERVICE WATER DISCHARGE VALVES, THE PRESSURIZER PORV AND BLOCK VALVES, AND THE LETDOWN COOLER ISOLATION VALVES-PARAGRAPHS 4 AND 7; AUXILIARY SHUTDOWN PANEL AND TRANSFER SWITCH ROOM LACKS A FIXED FIRE SUPPRESSION SYSTEM-PARAGRAPH 4; AUXILIARY SHUTDOWN PANEL FAILS TO PROVIDE ONE TRAIN REQUIRED FOR HOT STANDBY FREE OF FIRE DAMAGE-PARAGRAPH 4: FIRE AT THE AUXILIARY SHUTDOWN PANEL COULD CAUSE A REPAIR TO BE REQUIRED WHICH IS NOT ALLOWED FOR HOT SHUTDOWN-PARAGRAPH 4; (A) FOUR AREAS OF THE PLANT DID NOT HAVE INSTALLED EMERGENCY LIGHTING UNITS, (B) THREE AREAS OF THE PLANT HAD OBSTRUCTED LIGHTING AND (C) TWO OF SIX EMERGENCY LIGHTING UNITS FAILED THE 8 HOUR DISCHARGE TEST-PARAGRAPH 5; INADEQUATE OIL COLLECTION SYSTEM CAPACITY-PARAGRAPH 6; LACK OF A 1-HOUR FIRE BARRIER IN CONDUITS AND JUNCTION BOXES-PARAGRAPH 8; VIOLATION OF LCO, FAILURE TO ESTABLISH A FIRE WATCH AFTER FINDING INOPERABLE FIRE DAMPERS-PARAGRAPH 10; MODIFICATIONS TO FIRE DOORS WERE NOT CONTROLLED-PARAGRAPH 13; EIGHT EXAMPLES OF INADEQUATE SURVEILLANCE TEST AND ADMINISTRATIVE PROCEDURES-PARAGRAPH 14; FAILURE TO ADHERE TO STAFFING QUALIFICATIONS FOR FIRE PROTECTION/PROTECTION PROGRAM IMPLEMENTATION-PARAGRAPH 15.

PAGE 2-078

**Report Period SEP 1984** 

DATA

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

INSPECTION ON JULY 30 - AUGUST 1, (84-14): ROUTINE ANNOUNCED INSPECTION OF THE FOLLOWING AREAS: DAVIS-BESSE NUCLEAR POWER STATION EMERGENCY PREPAREDNESS EXERCISE INVOLVING OBSERVATIONS OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE BY SEVEN NRC REPRESENTATIVES; AND LICENSEE ACTIONS ON PREVIOUSLY IDENTIFIED EMERGENCY PREPAREDNESS ITEMS. THE INSPECTION INVOLVED 165 INSPECTOR-HOURS ONSITE BY THREE NRC INSPECTORS AND FOUR CONSULTANTS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED; HOWEVER, EXERCISE WEAKNESSES WERE IDENTIFIED WHICH ARE SPECIFIED IN THE APPENDIX TO THE TRANSMITTAL LETTER. OTHER AREAS FOR IMPROVEMENT ARE INCLUDED AT THE CONCLUSION OF EACH AREA OBSERVED.

INSPECTION ON JUNE 11 - JULY 27, (84-15): SPECIAL INSPECTION OF THE CIRCUMSTANCES SURROUNDING THREE EVENTS: THE DISCOVERY OF BOTH CONTROL ROOM EMERGENCY VENTILATION SYSTEMS BEING INCAPABLE OF PERFORMING THEIR AIR CONDITIONING FUNCTION; REMOVAL OF AN EMERGENCY DIESEL GENERATOR VENTILATION FAN FROM SERVICE WITHOUT DECLARING THE DIESEL INOPERABLE AND INOPERABLE AUXILAIRY FEED PUMP DUE TO AN OPEN STARTUP FEED PUMP SUCTION VALVE. THE INSPECTION INVOLVED 30 INSPECTION-HOURS ONSITE BY TWO NRC INSPECTORS INCLUDING 4 INSPECTGR-HOURS ONSITE DURING OFF-SHIFTS. FIVE ITEMS OF NON COMPLIANCE WERE IDENTIFIED (BOTH TRAINS OF THE CONTROL ROOM EMERGENCY VENTILATION SYSTEM MADE INOPERABLE; EMERGENCY DIESEL VENTILATION SUPPLY FAN TAKEN OUT-OF-SERVICE RENDERING THE DIESEL GENERATOR INOPERABLE; ONE AUXILIARY FEEDWATER PUMP INOPERABLE DUE TO AN OPEN STARTUP FEED PUMP SUCTION VALVE; PROCEDURES "OR STARTUP FEED PUMP AND SHIFT TURNOVER NOT ADHERED TO; IMPROPER 10 CFR 50.59 DETERMINATION THAT CHANGING THE POSITION OF A SUFP VALVE DID NOT CONSTITUTE A CHANGE IN THE FACILITY).

INSPECTION ON JULY 24 - AUGUST 27, (84-18): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; LICENSEE EVENT REPORTS AND OBSERVATION OF EMERGENCY EXERCISE. THE INSPECTION INVOLVED 125 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS INCLUDING 35 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. OF THE SIX AREAS INSPECTED, NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED IN FIVE AREAS; ONE ITEM OF NONCOMPLIANCE WAS IDENTIFIED IN ONE AREA (FAILURE TO HAVE ADEQUATE DESIGN CONTROL OVER A FACILITY CHANGE).

#### ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATION SECTION 6.8.1.A REQUIRES WRITTEN PROCEDURES TO BE ESTABLISHED, IMPLEMENTED AND MAINTAINED FOR THE APPLICABLE PROCEDURES RECOMMENDED IN APPENDIX A OF REGULATORY GUIDE 1.33, NOVEMBER 1972. PROCEDURES FOR PERFORMING MAINTENANCE ARE LISTED IN SECTION 9 OF APPENDIX A. MAINTENANCE PROCEDURE, MP1410.63, ELECTRICAL MAINTENANCE GUIDELINES, SECTION 7.1 REQUIRES EQUIPMENT BE MAINTAINED IN ACCORDANCE WITH DRAWING SERIES M-269 FOR PROTECTION FROM ACTUATION OF THE FIRE PROTECTION SPRINKLER SYSTEM. CONTRARY TO THE ABOVE, NUMEROUS ELECTRICAL JUNCTION BOXES WERE NOT MAINTAINED IN ACCORDANCE WITH DRAWING M-269AS IN THAT THESE SAFETY-RELATED JUNCTION BOXES WERE NOT PROTECTED FROM THE FIRE PROTECTION SPRINKLER SYSTEM. 10 CFR 21.21(A) STATES, IN PART: "EACH INDIVIDUAL, CORPORATION, PARTNERSHIP, OR ENTITY SUBJECT TO THE REGULATIONS IN THIS PART SHALL ADOPT APPROPRIATE PROCEDURES TO: (1) PROVIDE FOR: (A) EVALUATING DEVIATIONS OR...; (2) ASSURE THAT A DIRECTOR OR RESPONSIBLE OFFICER IS INFORMED IF THE CONSTRUCTION OR OPERATION OF A FACILITY, OR ACTIVITY, OR BASIC COMPONENT SUPPLIED FOR SUCH FACILITY OR BASIC ACTIVITY: (I) FAILS TO COMPLY..., OR; (II) CONTAINS A DEFECT." CONTRARY TO THE ABOVE REQUIREMENTS, THE FOLLOWING DEFICIENCIES WERE IDENTIFIED IN THE PROCEDURES ADOPTED BY TOLEDO EDISON COMPANY (TEDCO) PURSUANT TO 10 CFR 21.21(A): (A) NO ASSURANCE IS PROVIDED THAT POTENTIAL 10 CFR 21 REPORTABLE ITEMS IDENTIFIED BY TOLEDO EDISON COMPANY PERSONNEL WOULD BE FORWARDED TO NUCLEAR FACILITY ENGINEERING (NFE) FOR EVALUATION, AS REQUIRED BY THE TEDCO QA MANUAL; (B) INSTRUCTIONS PROVIDED BY TEDCO PROCEDURE QAI 4150, QA REVIEW OF NONCONFORMANCE REPORTS, RESULTED IN BYPASSING THE PROGRAMMATICALLY REQUIRED NEE EVALUATION OF POTENTIAL REPORTABLE DEVIATIONS; (C) NEITHER GAI 4150 NOR NEE PROCEDURE FEE-007, PROCESSING OF NCRS, SDRS, AND SDDRS, PROVIDED FOR PREPARATION AND MAINTENANCE OF RECORDS OF THE RESULTS OF EVALUATIONS PERFORMED PURSUANT TO 10 CFR 21. IN ADDITION, THESE PROCEDURES PROVIDED NO DETAILED CRITERIA UPON WHICH TO BASE THE EVALUATION; (D) THE INSTRUCTIONS PROVIDED FOR NOTIFICATION OF A RESPONSIBLE COMPANY OFFICER APPEARED TO LEAVE THE DETERMINATION OF REPORTABILITY TO THAT RESPONSIBLE COMPANY OFFICER. THE INSTRUCTIONS PROVIDED FOR NOTIFICATION OF A RESPONSIBLE COMPANY OFFICER DID NOT PROVIDE ASSURANCE THAT THE REQUIRED NOTIFICATION WAS MADE AND DID NOT PROVIDE FOR THE PREPARATION AND MAINTENANCE OF RECORDS TO ASSURE COMPLIANCE WITH THE PROVISIONS OF 10 CFR 21,21(A)(2); (E) NO DOCUMENTS REVIEWED BY THE INSPECTOR PROVIDED ASSURANCE THAT NOTIFICATIONS MADE TO THE COMMISSION PURSUANT TO 10 CFR 21.21(A)(2) WOULD MEET THE REQUIREMENTS OF 10 CFR 21,21(B)(2) AND (3); AND ONE OTHER EXAMPLE.

Report Period SEP 1984

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## ENFORCEMENT SUMMARY

(8412 5)

## OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT SHUTDOWN ON 9/11/84 DUE TO A TURBINE TRIP CAUSED BY A HIGH LEVEL IN A MOISTURE SEPARATOR REPEATER (MSR). THE UNIT WILL REMAIN SHUTDOWN FOR A SCHEDULED REFUELING OUTAGE STARTING 9/15/84 AND ENDING 12/18/84.

LAST IE SITE INSPECTION DATE: OCTOBER 2 - NOVEMBER 5, 1984

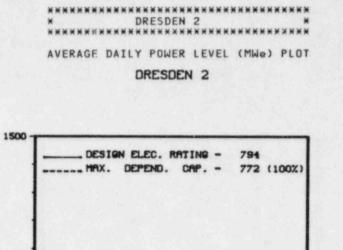
INSPECTION REPORT NO: 84-26

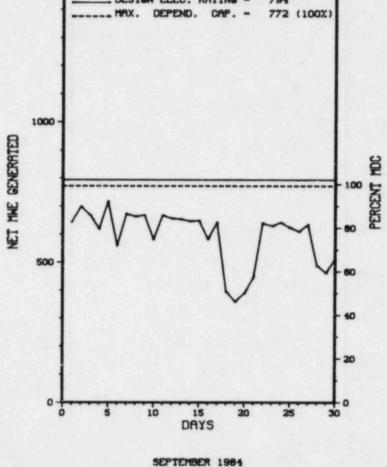
## REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-11	08/08/84	09/10/84	INOPERABLE FIRE BARRIER PENETRATION BETWEEN SERVICE WATER PUMP AND VALVE ROOMS
84-12	08/21/84	09/20/84	INOPERABLE FIRE BARRIER PENETRATION INTO CHANNEL 2 CABINET OF REACTOR PROTECTION SYSTEM

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1.	Docket: _50-2370	PERAT	ING S	TATUS
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: D. C. MA	XWELL (815	5) 942-2920	
4.	Licensed Thermal Power (MM	1t):		2527
5.	Nameplate Rating (Gross MM	le):	920 X 0	.9 = 828
6.	Design Electrical Rating (	Net MWe):		794
7.	Maximum Dependable Capacit	y (Gross M	1We):	812
8.	Maximum Dependable Capacit	y (Net MWe	2):	772
9.	If Changes Occur Above Sir	ice Last Re	eport, Give	Reasons:
6.1	NONE			
10.	Power Level To Which Restr		Any (Net Mu	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0		CUMULATIVE 126,095.0
13.	Hours Reactor Critical	720.0	6,387.3	98,612.8
14.	Rx Reserve Shtdwn Hrs			
15.	Hrs Generator On-Line	720.0	6,285.2	94, 186.
16.	Unit Reserve Shtdwn Hrs		.0	
17.	Gross Therm Ener (MWH)	1,414,370	14,408,906	191, 146, 502
18.	Gross Elec Ener (MWH)	450,725	4,627,281	61, 130, 448
19.	Net Elec Ener (MWH)	426,112	4,404,396	57,801,840
20.	Unit Service Factor	100.0	95.6	74.1
21.	Unit Avail Factor	100.0	95.6	74.7
22.	Unit Cap Factor (MDC Net)	76.7	86.8	59.0
	Unit Cap Factor (DER Net)	74.5	84.4	57.3
23.			4.4	11.5
	Unit Forced Outage Rate			
24.	Unit Forced Outage Rate Forced Outage Hours	. 0	289.8	4,710.0
24. 25.				





Report Period SEP 1984	UNIT SHU	TDOWNS / REDUCTIONS	**************************************
No Date Hours Reason Me	thod LER Number	System Component Cause & Corr	ective Action to Prevent Recurrence

NONE

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)			

**************************************	FACILITY DATA Report Period SEP 198
FACILITY DESCRIPTION	UTILITY & CONTRACTOR INFORMATION
LOCATION STATEILLINOIS	UTILITY LICENSEECOMMONWEALTH EDISON
COUNTYGRUNDY	CORPORATE ADDRESSP.O. BOX 767 CHICAGO, ILLINOIS 60690
DIST AND DIRECTION FROM NEAREST POPULATION CTR9 MI E OF MORRIS, ILL	CONTRACTOR ARCHITECT/ENGINEERSARGENT & LUNDY
TYPE OF REACTORBWR	NUC STEAM SYS SUPPLIERGENERAL ELECTRIC
DATE INITIAL CRITICALITYJANUARY 7, 1970	CONSTRUCTORUNITED ENG. & CONSTRUCTORS
DATE ELEC ENER 1ST GENERAPRIL 13, 1970	TURBINE SUPPLIERGENERAL ELECTRIC
DATE COMMERCIAL OPERATEJUNE 9, 1970	REGULATORY INFORMATION
CONDENSER COOLING METHODCOOLING LAKE	IE REGION RESPONSIBLEIII
CONDENSER CODLING WATERKANKAKEE RIVER	IE RESIDENT INSPECTORT. TONGUE
ELECTRIC RELIABILITY COUNCILMID-AMERICA	LICENSING PROJ MANAGERR. GILBERT DOCKET NUMBER50-237
INTERPOOL NETWORK	LICENSE & DATE ISSUANCEDPR-19, DECEMBER 22, 1969
	PUBLIC DOCUMENT ROOMMORRIS PUBLIC LIBRARY 604 LIBERTY STREET MORRIS, ILLINOIS 60450

#### INSPECTION SUMMARY

INSPECTION DURING THE PERIOD OF JULY 27 THROUGH AUGUST 21, (84-14): ROUTINE UNANNOUNCED RESIDENT INSPECTION OF 10 CFR 21 REPORTS, OPERATIONAL SAFETY, EVENTS, MAINTENANCE, LICENSEE EVENT REPORTS, UNIT 1 CHEMICAL CLEANING, SPENT NUCLEAR FUEL SHIPMENTS, AND OPERATING REPORTS. THE INSPECTION INVOLVED A TOTAL OF 142 INSPECTOR-HOURS ONSITE BY THREE NRC INSPECTORS INCLUDING 18 INSPECTOR-HOURS ONSITE DURING OFF-SHIFT. OF THE EIGHT AREAS INSPECTED, NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

INSPECTION STATUS

## ENFORCEMENT SUMMARY

NONE

## OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

\*\*\*\*\* DRESDEN 2 24 \*\*\*\*\*\*

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS OPERATING IN COASTDOWN. PLANNED REFUELING OUTAGE TO BEGIN FIRST WEEK OF OCTOBER 1984

LAST IE SITE INSPECTION DATE: SEPTEMBER 12 - OCTOBER 15, 1984

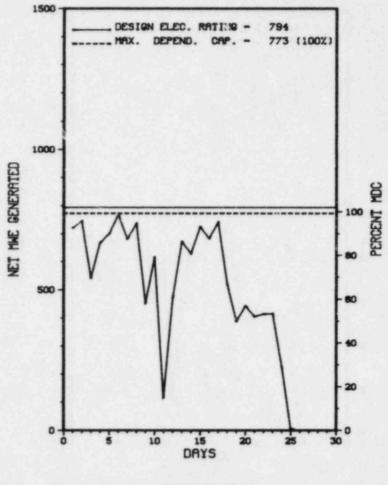
INSPECTION REPORT NO: 84-18

## REPORTS FROM LICENSEE

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NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-16	08/03/84	08/30/84	OVERFLOW OF FLOOR DRAIM SURGE TANK SUMPS TO GROUND
84-17	08/28/84	09/24/84	FAILURE TO FINISH FIRE WATCH WITHIN ONE (1) HOUR

	Docket: _50-249	OPERAT	TING S	TATUS
2.	Reporting Period:	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: D. C. M	AXWELL (81	5) 942-2920	
4.	Licensed Thermal Power (M	Wt):	1.	2527
5.	Nameplate Rating (Gross M	We):	920 X	0.9 = 828
6.	Design Electrical Rating	(Net MWe):		794
7.	Maximum Dependable Capaci	ty (Gross M	1We):	812
8.	Maximum Dependable Capaci	ty (Net MWe	2):	773
9.	If Changes Occur Above Si NONE	nce last Re	aport, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	We):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
3.	Hours Reactor Critical	614.9	1,908.1	84,743.2
4.	Rx Reserve Shtdwn Hrs			. 0
5.	Hrs Generator On-Line	567.5	1,441.3	81,303.7
6.	Unit Reserve Shtdwn Hrs			. 0
7.	Gross Therm Ener (MWH)	1,120,500	2,838,834	162,801,838
8.	Gross Elec Ener (MWH)		865,575	52,818,484
9.	Net Elec Ener (MWH)	325,295	797,501	50,028,084
٥.	Unit Service Factor	78.8	21.9	70.3
	Unit Avail Factor	78.8	21.9	70.3
1.			15.7	55.9
	Unit Cap Factor (MDC Net)	58.4		and the second s
2.	Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)			
2.		56.9	15.3	
2.	Unit Cap Factor (DER Net) Unit Forced Outage Rate	<u>56.9</u> 21.2	<u> </u>	54.5

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SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	ΙŢ	SHU	TDOW	N	s /	RI	EI	D U	ı c	T	I	0	N	s	**************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Co	mponer	nt :	_			Ca	US	e	8 0	Cori	rective Action to Prevent Recurrence	-
3	09/11/84	F	11.8	A	2						. 4	EHO	c o	DIL	L	EA	к.				
4	09/25/84	F	140.7	A	2							con	NDE	ENS	ER	8 T	UB	ει	LEAN	κ.	

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)

#### 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

## FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....COMMONWEALTH EDISON

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.....T. TONGUE

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

PUBLIC DOCUMENT ROOM.....MORRIS PUBLIC LIBRARY 604 LIBERTY STREET MORRIS, ILLINOIS 60450 INSPECTION STATUS

#### INSPECTION SUMMARY

INSPECTION DURING THE PERIOD OF JULY 27 THROUGH AUGUST 21, (84-13): ROUTINE UNANNOUNCED RESIDENT INSPECTION OF 10 CFR 21 REPORTS, OPERATIONAL SAFETY, EVENTS, MAINTENANCE, LICENSEE EVENT REPORTS, UNIT 1 CHEMICAL CLEANING, SPENT NUCLEAR FUEL SHIPMENTS, AND OPERATING REPORTS. THE INSPECTION INVOLVED A TOTAL OF 142 INSPECTOR-HOURS ONSITE BY THREE NRC INSPECTORS INCLUDING 18 INSPECTOR-HOURS ONSITE DURING OFF-SHIFT. OF THE EIGHT AREAS INSPECTED, NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

## OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

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Report Period SEP 1984

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## OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

PLANT IS RETURNING TO POWER OPERATION FOLLOWING A SHORT MAINTENANCE OUTAGE

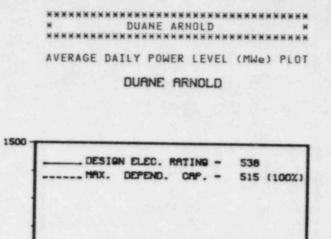
LAST IE SITE INSPECTION DATE: SEPTEMBER 12 - OCTOBER 15, 1984

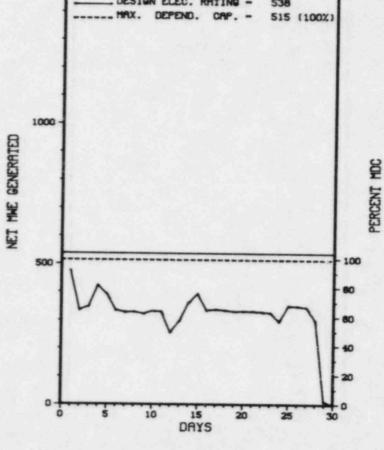
INSPECTION REPORT NO: 84-17

## REPORTS FROM LICENSEE

NUMBER DATE OF DATE OF SUBJECT REPORT EVENT FOUR (4) PERCENT 02 CONCENTRATION IN TORUS 84-09 08/08/84 09/05/84 REACTOR SCRAM ON LOW WATER LEVEL 84-10 08/21/84 09/10/84 UNIT 3 REACTOR SCRAM 84-11 08/22/84 09/19/84 84-12 08/23/84 09/19/84 UNIT 3 REACTOR SCRAM 08/30/84 09/26/84 3-1601-63 VALVE INOPERABLE 84-13

1.	Docket: _50-331	DPERA	TINGS	TATUS
2.	Reporting Period: 09/01/2	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact:KEN S.	PUTNAM (31	9) 851-7456	
4.	Licensed Thermal Power (M	Wt):		1658
5.	Nameplate Rating (Gross M	le):	663 X (	0.9 = 597
	Design Electrical Rating			538
7.	Maximum Dependable Capacit	ty (Gross M	1We):	545
8.	Maximum Dependable Capacit	ty (Net MWa	2):	515
9.	If Changes Occur Above Sir NONE		eport, Give	Reasons:
10.	Power Level To Which Restr		Any (Net Mk	le):
	Reasons for Restrictions,			
	NONE			
	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 84,719.0
13.	Hours Reactor Critical	686.2	5,153.6	61,088.6
14.	Rx Reserve Shtdwn Hrs	. 0	130.3	130.3
15.	Hrs Generator On-Line	678.0	5,043.6	59,486.3
16.	Unit Reserve Shtdwn Hrs	. 0		
17.	Gross Therm Ener (MWH)	783,792	7,245,306	74,993,868
8.	Gross Elec Ener (MWH)	247,226	2,416,577	25,110,634
19.	Net Elec Ener (MWH)		2,273,098	23,509,468
20.	Unit Service Factor	94.2		70.2
1.	Unit Avail Factor	94.2		70.2
2.	Unit Cap Factor (MDC Net)	62.2	67.1	53.9
3.	Unit Cap Factor (DER Net)	59.6	64.3	51.6
4.	Unit Forced Outage Rate		13.5	17.0
25.	Forced Outage Hours		789.9	12,124.2
	Shutdowns Sched Over Next			
	REFUEL OUTAGE, FEBRUARY 19	85.		
7.	If Currently Shutdown Esti	mated Star	tup Date:	10/21/84





SEPTEMBER 1984

PAGE 2-090

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Report	Period SI	EP 19	84		UN	IT	SНU	т	DO	W	N S	1	R	E	DU	c	т	1 (	• •	4 5	**************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	-	ivst	em	Com	pone	ent	_		(	Cau	58	8	Cor	rective Action to Prevent Recurrence	1
8	09/29/84	S	42.0	В	1	84-0	37		JC												LE TRIP AT LESS THAN 1% POWER DURING FOR UNRELATED MAINTENANCE.	

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

### 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 .. MID-CONTINENT AREA RELIABILITY COORDINATION

### FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

CORPORATE ADDRESS.....I E TOWERS, P.J. BOX 351 CEDAR RAPIDS, IOWA 52400

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....L. CLARDY

LICENSING PROJ MANAGER....M. THADANI DOCKET NUMBER.....50-331

LICENSE & DATE ISSUANCE.... DPR-49, FEBRUARY 22, 1974

PUBLIC DOCUMENT ROOM.....REFERENCE SERVICE CEDAR RAPIDS PUBLIC LIBRARY 428 THIRD AVENUE, S.E. CEDAR RAPIDS, IOWA 52401 INSPECTION STATUS

## INSPECTION SUMMARY

NO INSPECTION SUMMARIES FOR THIS TIME PERIOD

AGREEMENT

### ENFORCEMENT SUMMARY

NONE

## OTHER ITEMS

SYSTEMS AND COMFONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

#### Report Period SEP 1984

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OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

PLANT SHUTDOWN ON 9/30/84 FOR A PLANNED TWO-WEEK MAINTENANCE OUTAGE

LAST IE SITE INSPECTION DATE: SEPTEMBER 26 - NOVEMBER 21, 1984

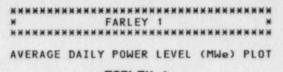
INSPECTION REPORT NO: 84-14

# REPORTS FROM LICENSEE

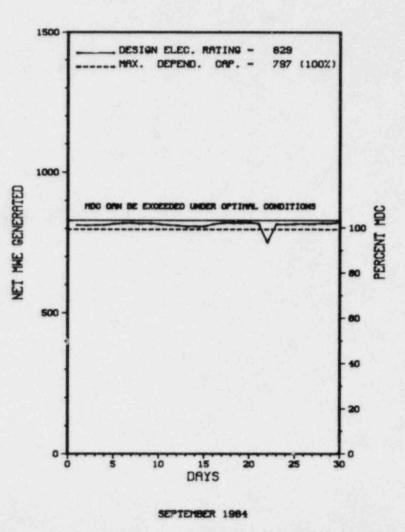
NUMBER DATE OF DATE OF CUBIECT

NUMBER	EVENT	REPORT	SUBJECT
84-25	08/08/84	09/07/84	RCIC STEAM SUPPLY VALVE INOPERABILITY
84-30	08/21/84	09/20/84	SECONDARY CONTAINMENT VIOLATION DUE TO PERSONNEL ERROR
84-33	09/06/84	09/28/84	ELECTRIC FIRE PUMP INOPERABLE FOR LONGER THAN 7 DAYS
84-34	08/21/84	09/20/84	SECONDARY CONTAINMENT AIRLOCK INTERLOCK MALFUNCTIONS

4.	Licensed Thermal Power (M	Mf):		2652
5.	Nameplate Rating (Gross M	We):	1045 X	0.85 = 888
6.	Design Electrical Rating	(Net MWe):		829
7.	Maximum Dependable Capaci	ty (Gross M	1We):	842
8.	Maximum Dependable Capacit	ty (Net MWa	;):	797
9.	If Changes Occur Above Sin	nce Last Re	eport, Give	Reasons:
	NONE			
10.	Power Level To Which Rest	ricted, If	Any (Net MW	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 59,903.0
13.	Hours Reactor Critical	720.0	4,796.8	39,920.0
14.	Rx Reserve Shtdwn Hrs			3,650.7
15.	Hrs Generator On-Line	720.0	4,712.0	38,815.4
16.	Unit Reserve Shtdwn Hrs	. 0		
17.	Gross Therm Ener (MWH)	1,904,651	12,052,119	98, 153, 643
18.	Gross Elec Ener (MWH)	617,636	3,882,140	31, 124,004
19.	Net Elec Ener (MWH)	585,910	3,655,732	29,356,794
20.	Unit Service Factor	100.0	71.7	64.8
21.	Unit Avail Factor	100.0	71.7	64.8
22.	Unit Cap Factor (MDC Net)	102.1	69.4	61.5
23.	Unit Cap Factor (DER Net)	98.2	67.1	59.1
	Unit Forced Outage Rate		1.7	13.9
24.		0	79.5	6,246.0
	Forced Outage Hours			Construction of the local division of the



FARLEY 1



\* Item calculated with a Weighted Average

Report Period SEP 1984	UNIT SHUTDOWNS / REDUC	T I O N S * FARLEY 1 * *********************************
No. Date Type Hours Reason M	1ethod LER Number System Component	Cause & Corrective Action to Prevent Recurrence

NONE

\*\*\*\*\*\*\*\*\*\* FARLEY 1 OPERATED ROUTINELY WITH NO OUTAGES OR REDUCTIONS DURING SEPTEMBER. \* SUMMARY \*

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)

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

### FACILITY DESCRIPTION

LOCATION STATE.....ALABAMA DIST AND DIRECTION FROM NEAREST POPULATION CTR... 28 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 

### FACILITY DATA

UTILITY & CONTRACTOR INFORMATION

UTTLITY

LICENSEE......ALABAMA POWER CO.

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 ..... 50-348

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

PUBLIC DOCUMENT ROOM.....G.S. HOUSTON MEMORIAL LIBRARY 212 W. BURDESHAW STREET DOTHAN, ALABAMA 36301 INSPECTION STATUS

## INSPECTION SUMMARY

+ INSPECTION AUGUST 16 - SEPTEMBER 10 (84-22): THIS ROUTINE INSPECTION ENTAILED 77 INSPECTOR-HOURS ON SITE IN THE AREAS OF MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, INDEPENDENT INSPECTION EFFORT, UNIT 2 OUTAGE, UNIT 1 SPENT FUEL STORAGE RACKS, AND ACTION ON PREVIOUSLY IDENTIFIED ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION SEPTEMBER 5-7 (84-24): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 12 INSPECTOR-HOURS ON SITE IN THE AREAS OF SPENT FUEL STORAGE RACKS AND STEAM GENERATOR TUBE LEAKS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

### ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B, CRITERION II, QUALITY ASSURANCE PROGRAM, AS IMPLEMENTED BY THE FARLEY NUCLEAR PLANT QUALITY ASSURANCE PROGRAM, FSAR SECTION 17, REQUIRES THAT THE QUALITY ASSURANCE PROGRAM SHALL PROVIDE CONTROL OVER ACTIVITIES AFFECTING THE QUALITY OF IDENTIFIED STRUCTURES, SYSTEMS AND COMPONENTS TO AN EXTENT CONSISTENT WITH THEIR IMPORTANCE TO SAFETY. CONTRARY TO THE ABOVE. INADEQUATE PROTECTION AND CONTROL TO CERTAIN COMPONENTS IMPORTANT TO SAFETY WAS NOT EXERCISED IN THAT: (1) ON JULY 25, 1984, AN ELECTRICAL SWITCHGEAR COMPARTMENT DOOR WAS OPENED AND AUTOMATICALLY DEENERGIZED BY LICENSEE PERSONNEL WITHOUT THE KNOWLEDGE OR CONSENT OF THE SHIFT SUPERVISOR WHO IS CHARGED WITH THE SAFE OPERATION OF THE PLANT; (2) ON JULY 16, 1984, A LARGE MANUAL VALVE OPERATOR WAS PLACED IN AN ELECTRICAL CABLE TRAY ON TOP OF ELECTRICAL CABLES WHILE THE VALVE WAS UNDERGOING MAINTENANCE; AND (3) ON

PAGE 2-096

Report Period SEP 1984

RELIABILITY COUNCIL

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

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×												F	A	R	L	E	Y		1															×
××	×	×	×	×	×	×	×	×	¥	×	×	×	×	*	×	×	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	¥	×

### ENFORCEMENT SUMMARY

JULY 20, 1984 VARIOUS ELECTRICAL CABLE TRAY COVERS WERE FOUND BENT, OUT OF POSITION, AND COVERS NOT FASTENED TO TRAYS. (8420 4)

10 CFR 50, APPENDIX B, CRITERION XII "CONTROL OF MEASURING AND TEST EQUIPMENT", AS IMPLEMENTED BY THE FARLEY NUCLEAR PLANT QUALITY ASSURANCE PROGRAM, FSAR CHAPTER 17, REQUIRES THAT MEASURES BE ESTABLISHED TO ASSURE THAT INSTRUMENTS USED IN ACTIVITIES AFFECTING QUALITY ARE PROPERLY CALIBRATED AND ADJUSTED AT SPECIFIED INTERVALS. CONTRARY TO THE ABOVE, INTERVALS FOR CALIBRATION OF CERTAIN INSTRUMENTS USED IN SAFETY RELATED ACTIVITIES HAD NOT BEEN SPECIFIED IN THAT ON JULY 23, 1984, LEVEL INDICATORS (LI-4075A AND B) FOR THE UNIT 1 CONDENSATE STORAGE TANK HAD NOT BEEN CALIBRATED SINCE MARCH, 1981 AND NO CALIBRATION FREQUENCY WAS SPECIFIED. (8420 5)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

R. P. MCDONALD PROMOTED TO SENIOR VICE PRESIDENT, W. G. HAIRSTON PROMOTED TO MANAGER NUCLEAR ENGINEERING AND TECHNICAL SUPPORT, J. D. WOODARD PROMOTED TO PLANT MANAGER.

PLANT STATUS:

NORMAL OPERATIONS.

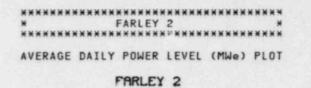
LAST IE SITE INSPECTION DATE: SEPTEME & 5-7, 1984 +

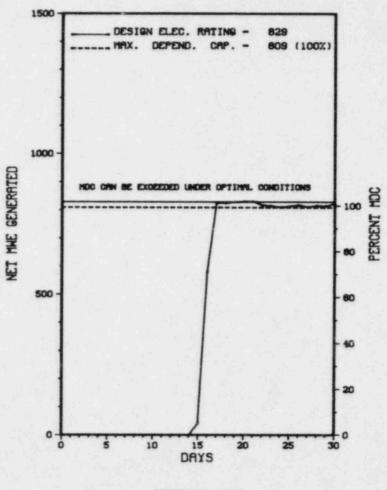
INSPECTION REPORT NO: 50-348/84-24 +

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-015	01/21/84	09/07/84	HOURLY FIRE WATCH PATROL POSTED INSTEAD OF CONTINUOUS FIRE WATCH, ADMINISTRATIVE PROCEDURES ARE BEING CHANGED.

1.	Docket: _50-364_ 0	PERAT	ING S	TATUS
2.	Reporting Period: _09/01/8	4 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: D. WO	ODARD (205	5) 899-5156	
4.	Licensed Thermal Power (MW	(f):		2652
5.	Nameplate Rating (Gross MW	le):		860
6.	Design Electrical Rating (	Net MWe):		829
7.	Maximum Dependable Capacit	y (Gross M	1We):	853
8.	Maximum Dependable Capacit	y (Net MWe	:	809
9.	If Changes Occur Above Sin NONE		eport, Give	Reasons:
10.	Power Level To Which Restr	icted, If	Any (Net MW	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 27,816.0
13.	Hours Peactor Critical		6,190.8	
14.	Rx Reserve Shtdwn Hrs	. 0		138.4
15.	Hrs Generator On-Line	367.8	6,122.5	
16.	Unit Reserve Shtdwn Hrs		0	,(
17.	Gross Therm Ener (MWH)	944,645	16,022,773	62,933,465
18.	Gross Elec Ener (MWH)	305,148	5,172,828	20, 159, 676
19.	Net Elec Ener (MWH)	285,208	4,919,270	19,119,296
20.	Unit Service Factor	51,1	93.1	87.8
21.	Unit Avail Factor	51,1	93.1	87.8
22.	Unit Cap Factor (MDC Net)	49.0	92.1	85.0
23.	Unit Cap Factor (DER Net)	47.8	90.3	82.9
24	Unit Forced Outage Rate	48.9	6.9	5.7
		352 2	452.5	1,484.3
	Forced Outage Hours			
25.	Forced Outage Hours Shutdowns Sched Over Next			uration):





SEPTEMBER 1984

\*\*\*\*\*\* Report Period SEP 1984 UNIT SHUTDOWNS / REDUCTIONS × FARLEY 2 \*\*\*\*\*\*\*\* Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence No. 006 08/31/84 F 352.2 н 4 84-008-00 AB UNIT WAS SHUT DOWN ON 8-31-84 DUE TO RE-ANALYSIS OF SG CYCLE II-III EDDY CURRENT TEST RESULTS WHICH SHOWED SIGNIFICANT TUBE WALL DEGRADATION IN TWO TUBES EXCEEDING THE TUBE PLUGGING LIMIT OF TECHNICAL SPECIFICATION 3/4.4.6. THIS OUTAGE CONTINUED UNTIL 9-15-84.

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)

### 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

### FACILITY DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....ALABAMA POWER CO.

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

LICENSE & DATE ISSUANCE....NPF-8, MARCH 31, 1981

PUBLIC DOCUMENT ROOM.....G.S. HOUSTON MEMORIAL LIBRARY 212 W. BURDESHAW STREET DOTHAN, ALABAMA 36301 INSPECTION STATUS

# INSPECTION SUMMARY

+ INSPECTION AUGUST 16 - SEPTEMBER 10 (84-22): THIS ROUTINE INSPECTION ENTAILED 77 INSPECTOR-HOURS ON SITE IN THEAREAS OF MONTHLY SURVEILLANCE OBSERVATION, MONTHLY MAINTENANCE OBSERVATION, OPERATIONAL SAFETY VERIFICATION, INDEPENDENT INSPECTION EFFORT, UNIT 2 OUTAGE, UNIT 1 SPENT FUEL STORAGE RACKS, AND ACTION ON PREVIOUSLY IDENTIFIED ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION SEPTEMBER 5-7 (84-24): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 11 INSPECTOR-HOURS ON SITE IN THE AREAS OF SPENT FUEL STORAGE RACKS AND STEAM GENERATOR TUBE LEAKS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B. CRITERION II, QUALITY ASSURANCE PROGRAM, AS IMPLEMENTED BY THE FARLEY NUCLEAR PLANT QUALITY ASSURANCE PROGRAM, FSAR SECTION 17, REQUIRES THAT THE QUALITY ASSURANCE PROGRAM SHALL PROVIDE CONTROL OVER ACTIVITIES AFFECTING THE QUALITY OF IDENTIFIED STRUCTURES, SYSTEMS AND COMPONENTS TO AN EXTENT CONSISTENT WITH THEIR IMPORTANCE TO SAFETY. CONTRARY TO THE ABOVE, INADEQUATE PROTECTION AND CONTROL TO CERTAIN COMPONENTS IMPORTANT TO SAFETY WAS NOT EXERCISED IN THAT: (1) ON JULY 25, 1984, AN ELECTRICAL SWITCHGEAR COMPARTMENT DOOR WAS OPENED AND AUTOMATICALLY DEENERGIZED BY LICENSEE PERSONNEL WITHOUT THE KNOWLEDGE OR CONSENT OF THE SHIFT SUPERVISOR WHO IS CHARGED WITH THE SAFE OPERATION OF THE PLANT; (2) ON JULY 16, 1984, A LARGE MANUAL VALVE OPERATOR WAS PLACED IN AN ELECTRICAL CABLE TRAY ON TOP OF ELECTRICAL CABLES WHILE THE VALVE WAS UNDERGOING MAINTENANCE; AND (3) ON JULY 20, 1984 VARIOUS ELECTRICAL CABLE TRAY COVERS WERE FOUND BENT, OUT OF POSITION, AND COVERS NOT FASTENED TO TRAYS.

Report Period SEP 1984

\* FARLEY 2 \*

#### ENFORCEMENT SUMMARY

(8420 4)

10 CFR 50, APPENDIX B, CRITERION XII "CONTROL OF MEASURING AND TEST EQUIPMENT", AS IMPLEMENTED BY THE FARLEY NUCLEAR PLANT QUALITY ASSURANCE PROGRAM, FSAR CHAPTER 17, REQUIRES THAT MEASURES BE ESTABLISHED TO ASSURE THAT INSTRUMENTS USED IN ACTIVITIES AFFECTING QUALITY ARE PROPERLY CALIBRATED AND ADJUSTED AT SPECIFIED INTERVALS. CONTRARY TO THE ABOVE, INTERVALS FOR CALIBRATION OF CERTAIN INSTRUMENTS USED IN SAFETY RELATED ACTIVITIES HAD NOT BEEN SPECIFIED IN THAT ON JULY 23, 1984, LEVEL INDICATORS (LI-4075A AND B) FOR THE UNIT 1 CONDENSATE STORAGE TANK HAD NOT BEEN CALIBRATED SINCE MARCH, 1981 AND NO CALIBRATION FREQUENCY WAS SPECIFIED. (8420 5)

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

R. P. MCDONALD PROMOTED TO SENIOR VICE PRESIDENT, W. G. HAIRSTON PROMOTED TO MANAGER NUCLEAR ENGINEERING AND TECHNICAL SUPPORT, J. D. WOODARD PROMOTED TO PLANT MANAGER.

PLANT STATUS:

NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: SEPTEMBER 5-7, 1984 +

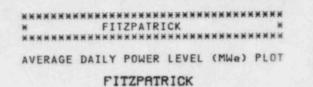
INSPECTION REPORT NO: 50-364/84-24 +

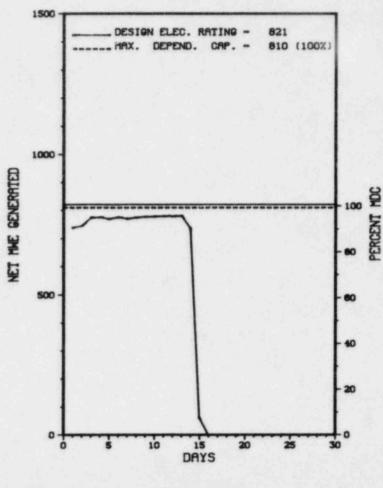
# REPORTS FROM LICENSEE

NUMBER DATE OF DATE OF SUBJECT EVENT REPORT

NONE.

1. Docket: 50-333	PERAT	ING S	TATUS
2. Reporting Period:	34 Outage	+ On-line	Hrs: 720.0
3. Utility Contact: COOK	(315) 342-	3840	
4. Licensed Thermal Power (ML	Wt):		2436
5. Nameplate Rating (Gross M			,9 = 883
6. Design Electrical Rating	(Net MWe):		821
7. Maximum Dependable Capacit	ty (Gross M	We):	830
8. Maximum Dependable Capaci	ty (Net MWe	):	810
9. If Changes Occur Above Sin NONE		port, Give	Reasons:
10. Power Level To Which Rest		Any (Net MW	le):
11. Reasons for Restrictions,			
NONE			
12. Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 80,472.0
13. Hours Reactor Critical	349.0	5,713.0	58,241.8
14. Rx Reserve Shtdwn Hrs		.0	0
15. Hrs Generator On-Line	344.0	5,578.8	56,778.7
16. Unit Reserve Shtdwn Hrs		.0	0
17. Gross Therm Ener (MWH)	811,920	12,825,528	120,562,114
18. Gross Elec Ener (MWH)	268,370	4,269,330	40,926,650
19. Net Elec Ener (MWH)	259,740	4,133,175	39,631,815
20. Unit Service Factor	47.8	84.8	70.6
21. Unit Avail Factor	47.8	84.8	70.6
22. Unit Cap Factor (MDC Net)	44.5	77.6	64.2
23. Unit Cap Factor (DER Net)	43.9	76.6	60.0
24. Unit Forced Dutage Rate		4.7	13.7
25. Forced Outage Hours			
26. Shutdowns Sched Over Next REFUELING & MAINTENANCE-0	6 Months	(Type,Date,	Duration):
27. If Currently Shutdown Est			10/15/84





SEPTEMBER 1984

\* Item calculated with a Weighted Average

Report	Period SI	EP 19	84		UN	ΙT	SН	UT	D	0 W	N	s	/	RE	D	U	ст	I	0	N	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Numbe	er	Sve	stem	Ce	ompo	nen	Ŧ _			Ca	USE	2 8	C	corrective Action to Prevent Recurrence
12	09/15/84	s	376.0	В	1									8	409	915	SH	UTE	DOW	IN	FOR MAINTENANCE AND IHSI.

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)

## FACILITY DESCRIPTION

LOCATION STATENEW YORK
COUNTYOSWEGO
DIST AND DIRECTION FROM NEAREST POPULATION CTR8 MI NE OF OSWEGO, NY
TYPE OF REACTORBWR
DATE INITIAL CRITICALITYNOVEMBER 17, 1974
DATE ELEC ENER IST GENER FEBRUARY 1, 1975
DATE COMMERCIAL OPERATEJULY 28, 1975
CONDENSER COOLING METHODONCE THRU
CONDENSER COOLING WATERLAKE ONTARIO
ELECTRIC RELIABILITY COUNCILNORTHEAST POWER COORDINATING COUNCIL

## FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE......POWER AUTHORITY OF STATE OF N.Y. 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....L. DOERFLEIN

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):

PAGE 2-104

Report Period SEP 1984

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

\*\*\*\*\*\* × FITZPATRICK \*

# OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

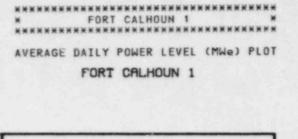
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

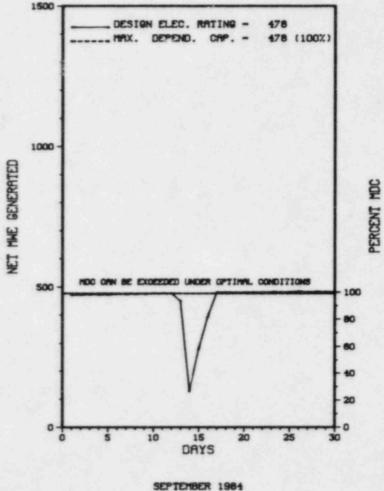
INSPECTION REPORT NO: NO INPUT PROVIDED.

# REPORTS FROM LICENSEE

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

	Docket: <u>50-285</u> 0			
2.	Reporting Period:	0utage	+ On-line	Hrs: 720.0
3.	Utility Contact: MA	ATTHEWS (40)	2) 536-4733	
4.	Licensed Thermal Power (MM	4t):		1500
5.	Nameplate Rating (Gross MM	le):	591 X 0	.85 = 502
6.	Design Electrical Rating (	(Net MWe):		478
7.	Maximum Dependable Capacit	ty (Gross M	We):	501
8.	Maximum Dependable Capacit	ty (Net MWe	):	478
9.	If Changes Occur Above Sir	nce Last Re	port, Give	Reasons:
	TURBINE BLADING REPAIR			
10.	Power Level To Which Restr	ricted, If	Any (Net MW	e):
11.	Reasons for Restrictions.	If Any:		
	NONE			
12.	Report Period Nrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 96,576.0
13.	Hours Reactor Critical	720.0	3,498.1	74,112.0
14.	Rx Reserve Shtdwn Hrs			1,309.5
15.	Hrs Generator On-Line	715.8	3,391.5	72,744.1
16.	Unit Reserve Shtdwn Hrs	0	.0	, 0
17.	Gross Therm Ener (MWH)	1,029,862	4,743,070	91,502,784
18.	Gross Elec Ener (MWH)		1,542,392	30, 171, 816
19.	Net Elec Ener (MWH)	329,418	1,464,829	28,544,689
20.	Unit Service Factor	99.4	51.6	75.3
21.	Unit Avail Factor	99.4	51.6	75.3
22.	Unit Cap Factor (MDC Net)	95.7	49.4	64.49
23.	Unit Cap Factor (DER Net)	95.7	46.6	61.8
24.	Unit Forced Outage Rate	0		3.5
	Forced Outage Hours		16.3	1,414.7
25.			Tune Date I	Juration):
	Shutdowns Sched Over Next	6 Months (	iype, bate, t	





\* Item calculated with a Weighted Average

\*\*\*\*\*\*\*\*

UNIT SHUTDOWNS / REDUCTIONS \* FORT CALHOUN 1 \*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-03	09/15/84	5	4.2	В	3		XX	XXXXXX	UNIT TAKEN OFF LINE TO PERFORM TURBINE OVERSPEED TESTS SEPTEMBER 15, 1984 AT 0558. THE UNIT WAS PLACED BACK ON LINE THE SAME DAY AT 1010.

\*\*\*\*\*\*\*\*\*\* FORT CALHOUN OPERATED WITH 1 OUTAGE DURING SEPTEMBER.

Report Period SEP 1984

Type	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Err C-Refueling H-Other D-Regulatory Restriction E-Operator Training & License Examination	1-Manual or 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 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 WATER ... . MISSOURI RIVER

FLECTRIC RELIABILITY COUNCIL ..... MID-CONTINENT AREA RELIABILITY COORDINATION

AGREEMENT

### FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY

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.....L. YANDELL

LICENSING PROJ MANAGER.....E. TOURIGNY 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

NONE

### ENFORCEMENT SUMMARY

CONTRARY TO 10 CFR 50, APPENDIX B, SECTION XVII AND LICENSEE PROCEDURE, STANDING ORDER G-17, APPENDIX A, REVISION 27, SECTION 4.8.3. THERE WAS NO RECORD OF SHIFT SUPERVISOR REVIEW ON THE FOLLOWING MAINTENANCE ORDERS, ALL OF WHICH INVOLVED SAFETY RELATED EQUIPMENT AND SPECIFICALLY REFERENCED TECHNICAL SPECIFICATION APPLICABILITY: 840045,840514 AND 840621. AN "NA" WAS RECORDED IN THE SHIFT SUPERVISOR BLANK ON EACH OF THE ABOVE MAINTENANCE ORDERS. CONTRARY TO ANSI N18.7-1972, SECTION 5.1.5, THE LICENSEE'S PROCEDURES DID NOT REQUIRE INDEPENDENT VERIFICATION OF TAGOUTS TO ENSURE THAT EQUIPMENT WAS PROPERLY ISOLATED. (8412 4)

FAILURE TO FOLLOW PROCEDURES - INSTANCES OF FAILURE TO INSPECT MATERIAL RECEIVED AT FT. CALHOUN STATION IN ACCORDANCE WITH QA DEPT PROCEDURE -12 AND 10 CFR APP B, CRITERION V. (8415 5)

SECURITY ORGANIZATION, SAS OPERATOR MAINTENANCE FAILURE, COMPENSATION TESTING MAINTENANCE, SPECIFICATIONS (8417 4)

PAGE 2-108

### Report Period SEP 1984

CONDENSER COOLING METHOD ... ONCE THRU

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

# ENFORCEMENT SUMMARY

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

ROUTINE POWER OPERATION

LAST IE SITE INSPECTION DATE: JULY 1-31, 1984 BY L. A. YANDELL

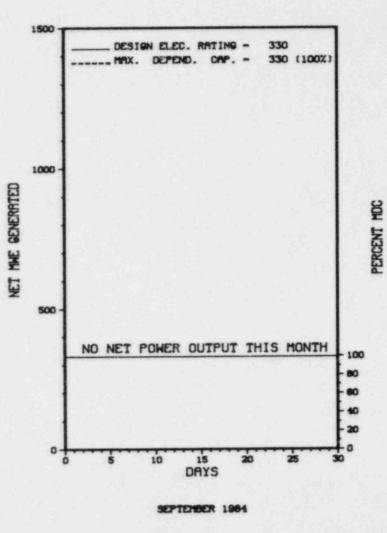
INSPECTION REPORT NO: 50-285/84-16

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT			
		**********		 	 	 
NONE						

1.	Docket: 50-267 0	PERATI	INGS	TATUS
2.	Reporting Period: _09/01/8	4_ Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: FRANK NO	VACHEK (303	785-2224	
4.	Licensed Thermal Power (MW	t):		842
5.	Nameplate Rating (Gross MW	e):	403 X 0	.85 = 343
6.	Design Electrical Rating (	Net MWe):		330
7.	Maximum Dependable Capacit	y (Gross MW	e):	342
8.	Maximum Dependable Capacit	y (Net MWe)	· ·	330
	If Changes Occur Above Sin NONE	ce Last Rep		
10.	Power Level To Which Restr		ny (Net MW	e):280
	Reasons for Restrictions,			
1	B-0 STARTUP TESTING			
		MONTH	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical		1,324.1	27,151.4
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	. 0
15.	Hrs Generator On-Line		660.1	18,463.5
16.	Unit Reserve Shtdwn Hrs	. 0	. 0	
17.	Gross Therm Ener (MWH)	0	340,047	9,709,799
18.	Gross Elec Ener (MWH)	0	95,438	3,248,888
19.	Net Elec Ener (MWH)	-2,420	64,664	2,936,194
20.	Unit Service Factor	. 0	10.0	40.1
21.	Unit Avail Factor		10.0	40.1
22.	Unit Cap Factor (MDC Net)	. 0	3.0	19.3
23.	Unit Cap Factor (DER Net)		3.0	19.3
24.	Unit Forced Dutage Rate	100.0	78.7	43.3
25.	Forced Outage Hours	720.0	2,443.5	14,120.5
26.	Shutdowns Sched Over Next			
	CONTROL ROD DRIVE INVEST. If Currently Shutdown Esti			

**	×	×	*	6.9	ER	4	×	×	~	- 23		R	107	-	12			127	33	122		122	100	×	×	*	×	×	*	×	*	×	*		*	
**	×	×		•	6.9	*	×	×	×	×	*	*	×	×	*	×	*	×	*	*	×	×	×	×	×	×	×	*	×	Ħ	*	×	×		*	
AV	E	R		10	1	E		D	A	I	L	Y		P	0	W	E	R	1	L	E	V	E	L		(	M	W	e	)		P	L	0	T	
									1	-	0	R	T		5	57	1	1	VI	R	A	I	N	1												



Report	Period SE	EP 198	84		UN	I T	SHU	TD	0 1	H N	s	/ R	E	DU	c	T	1 0	N	s	NANNANANANANANANANANANANANANANANANANAN
No.	Date	Type	Hours	Reason	Method	LE	R Number	Sve	iter	m c	ompo	nent	=		(	Cau	50	8	Cor	rective Action to Prevent Recurrence
84-006	07/01/84	F	720.0	A	4	50-	267/84008		A		JC		co	ONTR	OL	RO	DD	RI	VE	INVESTIGATION CONTINUES.

\*\*\*\*\*\*\*\*\*\* FORT ST. VRAIN REMAINS SHUTDOWN IN A CONTINUING EQUIPMENT FAILURE OUTAGE. \* SUMMARY \*

Type	Reason		Method	System & Component		
F-Forced S-Sched	A-Equip Failure B-Maint or Test C-Refueling D-Regulatory Res E-Operator Train & License Exa	H-Other triction ing	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)		

### FACILITY DESCRIPTION

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

ELECTRIC RELIABILITY

COUNCIL......WESTERN SYSTEMS COORDINATING COUNCIL

## FACILITY DATA

### 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.....G. PLUMLEE

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 JULY 1-31, 1984 (84-18):

ROUTINE/REACTIVE, ANNOUNCED INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS, OPERATIONAL SAFETY VERIFICATION, SURVEILLANCE - REFUELING, MAINTENANCE, TMI ACTION PLAN REQUIREMENT FOLLOWUP, IE BULLETIN FOLLOWUP, CONTROL ROD DRIVE EVENT FOLLOWUP, AND REVIEW OF PERIODIC AND SPECIAL REPORTS, WITHIN THE EIGHT AREAS INSPECTED ONE OPEN ITEM WAS IDENTIFIED.

INSPECTION CONDUCTED JULY 31, 1984 (84-20):

SPECIAL, UNANNOUNCED INSPECTION OF THE CIRCUMSTANCES REGARDING A LIQUID RELEASE FROM THE REACTOR BUILDING SUMP ON JULY 20, 1984, WHICH EXCEEDED REGULATORY LIMITS. WITHIN THE AREA INSPECTED, THREE VIOLATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

CONTRARY TO ADMINISTRATIVE PROCEDURE P-2 THE NRC INSPECTOR DETERMINED THAT THE FIRE WATER PUMP HOUSE FANS WERE IN A DEVIATION SITUATION WITHOUT THE ISSUANCE OF AN OPERATION DEVIATION RESULTING IN OPERATIONS PERSONNEL NOT BEING AWARE OF THE SYSTEM STATUS. CONTRARY TO ADMINISTRATIVE PROCEDURE Q-11, THE NRC INSPECTOR DETERMINED THAT A SPECIAL TEST WAS IN PROGRESS WITHOUT HAVING THE SHIFT SUPERVISOR'S SIGNATURE DOCUMENTING PERMISSION TO INITIATE THE TEST.

PAGE 2-112

# Report Period SEP 1984

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### ENFORCEMENT SUMMARY

(8415 4)

BASED ON THE RESULTS OF AN NRC INSPECTION CONDUCTED DURING THE PERIOD OF JUNE 4-5, 1984, AND IN ACCORDANCE WITH NRC ENFORCEMENT POLICY (10 CFR PART2, APPENDIX C), 49 FR 8583, DATED MARCH 8, 1984, THE FOLLOWING VIOLATION WAS IDENTIFIED: SHIFT TURNOVER PROCEDURE TECHNICAL SPECIFICATIONS, PARAGRAPH 7.4.A. REQUIRES THAT: "WRITTEN PROCEDURES SHALL BE ESTABLISHED, IMPLEMENTED AND MAINTAINED COVERING THE ACTIVITIES REFERENCED BELOW: THE APPLICABLE PROCEDURES RECOMMENDED IN APPENDIX A OF REGULATORY GUIDE 1.33, NOVEMBER 1972." APPENDIX A TO REGULATORY GUIDE 1.33, NOVEMBER 1972, REQUIRES THAT THERE BE AN ADMINISTRATIVE PROCEDURE FOR SHIFT AND RELIEF TURNOVER. CONTRARY TO THE ABOVE, THERE WAS NO PROCEDURE FOR SHIFT TURNOVER IN EFFECT ON JUNE 4, 1984. (8416 4)

TECHNICAL SPECIFICATION ELCO 8.1.2.A STATES THAT THE MAXIMUM INSTANTANEOUS RELEASE RATE OF RADIOACTIVE LIQUID EFFLUENT FROM THE SITE SHALL NOT EXCEED THE VALUES SPECIFIED IN APPENDIX B OF 10 CFR PART 20. CONTRARY TO THE ABOVE, CONCENTRATIONS OF RADIOACTIVE MATERIALS IN UNRESTRICTED AREAS EXCEEDED REGULATORY LIMITS BY A FACTOR OF 2.47 BETWEEN 02:00 HOURS JULY 19, 1984 AND 15:40 HOUR JULY 20, 1984. TECHNICAL SPECIFICATION ELCO 8.1.3.D REQUIRES THAT ALL LIQUID EFFLUENTS RELEASED FROM THE REACTOR BUILDING SUMP SHALL BE CONTINUOUSLY MONITORED BY TWO ACTIVITY MONITORS AND THEIR ASSOCIATED RECORDER. EQUIPMENT SHALL BE OPERABLE TO AUTOMATICALLY TERMINATE THE RELEASE ON HIGH SPECIFIC ACTIVITY OR LOW COOLING WATER FLOW. CONTRARY TO THE ABOVE, THE LIQUID EFFLUENT MONITORS DID NOT TERMINATE THE RELEASE ON JULY 20. 1984 WHICH EXCEEDED TECHNICAL SPECIFICATION LIMITS. 10 CFR PART 50.72 REQUIRES THAT EACH NUCLEAR POWER REACTOR LICENSEE SHALL NOTIFY THE NRC OPERATIONS CENTER WITHIN 24 HOURS OF ANY EVENT OF LIQUID DISSOLVED NOBLE GASES, WHEN AVERAGED OVER A TIME PERIOD OF ONE HOUR. CONTRARY TO THE ABOVE, CERTAIN LICENSEE PERSONNEL WERE AWARE THAT TECHNICAL SPECIFICATION LIMITS HAD BEEN EXCEEDED FOR LIQUID EFFLUENTS THE AFTERNOON OF JULY 24, 1984 REGUARDING A RELEASE MADE DURING JULY 19 AND 20, 1984. HOWEVER, THE NRC WAS NOT NOTIFIED WITH 16:15 HOURS ON JULY 26, 1984 THAT CONCENTRATIONS OF UNKNOWN BETA ACTIVITY HAD EXCEEDED TECHNICAL SPECIFICATION LIMITS HAD BEEN EXCEEDED FOR LIQUID EFFLUENTS THE AFTERNOON OF JULY 24, 1984 REGUARDING A RELEASE MADE DURING JULY 19 AND 20, 1984. HOWEVER, THE NRC WAS NOT NOTIFIED WITH 16:15 HOURS ON JULY 26, 1984 THAT CONCENTRATIONS OF UNKNOWN BETA ACTIVITY HAD EXCEEDED TECHNICAL SPECIFICATION LIMIT BY A FACTOR OF 2.24.

### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ON JUNE 23, 1984, SIX CONTROL ROD PAIRS FAILED TO DROP INTO THE CORE DURING A REACTOR SCRAM. THESE ORIGINAL SIX CRD PAIRS HAVE NOW HAD THEIR CRDMS REFURBISHED. THE LICENSEE IS CONTINUING WITH THEIR CRDM INSPECTION PROGRAM.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

EFFECTIVE AUGUST 6, 1984, AND SEPTEMBER 1, 1984, FORT ST. VRAIN UNDERWENT MAJOR REORGANIZATIONAL CHANGES.

PLANT STATUS:

THE PLANT IS IN A MAINTENANCE SHUTDOWN STATUS. FSV IS CONTINUING WITH THEIR CRDM INSPECTION PROGRAM.

LAST IE SITE INSPECTION DATE: JULY 31, 1984

INSPECTION REPORT NO: 50-267/84-20

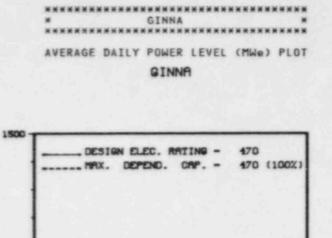
Report Perio	od SEP 1984	1.1	REPO	RTS	F	RO	M	L	I	c	E	N S	5 E	E	*	******	FORT (***)	ST	VRAIN	******	***
********									==:	===		==:									
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT			_															
84-009	7-26-84	8-24-84	LIQUID WASTE	RELEAS	E E)	CEE	DED	MP	c 1	FOR	R U	NII	DEN	TIFIED	BETA.						
					====				==:	===	===	==:		======						=========	

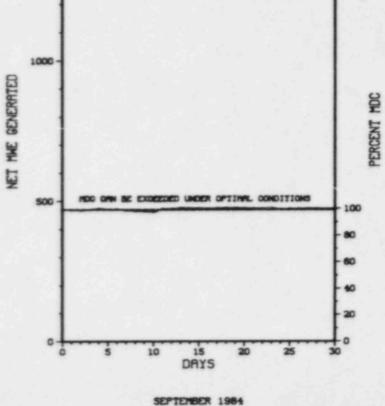
PAGE 2-114

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4.	Licensed Thermal Power (M	We):		1520
5.	Nameplate Rating (Gross M	le):	608 X 0	.85 = 517
6.	Design Electrical Rating	(Net MWe):	_	470
7.	Maximum Dependable Capacii	ty (Gross M	We):	490
8.	Maximum Dependable Capacit	ty (Net MWe	):	470
	If Changes Occur Above Sir NONE	nce Last Re	port, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	le):
11.	Reasons for Restrictions.	If Any:		
	NONE			
2.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 130,151.0
13.	Hours Reactor Critical	720.0	4,639.7	98,239.1
14.	Rx Reserve Shtdwn Hrs	0	56.2	1,687.7
	Rx Reserve Shtdwn Hrs Hrs Generator On-Line			1,687.7
15.				
15.	Hrs Generator On-Line	720.0	4,571.3	96,082.6
15. 16. 17.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs	<u>720.0</u> 0 1,089,792	<u>4,571.3</u> <u>.0</u> <u>6,689,928</u>	96,082.6
15. 16. 17. 18.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH)	720.0 .0 1,089,792 357,755	4,571.3 .0 6,689,928 2,212,565	<u>96,082.6</u> <u>8.5</u> 1 <u>32,947,297</u>
15. 16. 17. 18.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH)	720.0 .0 1,089,792 357,755 340,137	<u>4,571.3</u> <u>0</u> <u>6,689,928</u> <u>2,212,565</u> <u>2,101,928</u>	<u>96,082.6</u> <u>8.5</u> 1 <u>32,947,297</u> <u>43,376,936</u>
15. 16. 17. 18. 19.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH)	720.0 .0 1,089,792 357,755 340,137	<u>4,571.3</u> <u>.0</u> <u>6,689,928</u> <u>2,212,565</u> <u>2,101,928</u> <u>69.5</u>	<u>96,082.6</u> <u>8.5</u> 1 <u>32,947,297</u> <u>43,376,936</u> <u>41,128,172</u>
15. 16. 17. 18. 19. 20. 21.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor	720.0 .0 1,089,792 357,755 340,137 100.0 100.0	<u>4,571.3</u> <u>0</u> <u>6,689,928</u> <u>2,212,565</u> <u>2,101,928</u> <u>69.5</u> <u>69.5</u>	<u>96,082.6</u> <u>8.5</u> 1 <u>32,947,297</u> <u>43,376,936</u> <u>41,128,172</u> <u>73.8</u> 73.8
15. 16. 17. 18. 19. 20. 21. 22.	Hrs Generator On-Line Unit Reserve Shtdun Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor	720.0 .0 1,089,792 357,755 340,137 100.0 100.0 100.5	<u>4,571.3</u> <u>0</u> <u>6,689,928</u> <u>2,212,565</u> <u>2,101,928</u> <u>69.5</u> <u>69.5</u>	<u>96,082.6</u> <u>8.5</u> 1 <u>32,947,297</u> <u>43,376,936</u> <u>41,128,172</u> <u>73.8</u> 73.8
15. 16. 17. 18. 19. 19. 10. 11. 12.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	720.0 .0 1,089,792 357,755 340,137 100.0 100.0 100.5 100.5	<u>4,571.3</u> <u>.0</u> <u>6,689,928</u> <u>2,212,565</u> <u>2,101,928</u> <u>69.5</u> <u>69.5</u> <u>68.0</u>	<u>96,082.6</u> <u>8.5</u> 1 <u>32,947,297</u> <u>43,376,936</u> <u>41,128,172</u> <u>73.8</u> <u>73.8</u> <u>68.9*</u>
15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Outage Rate	720.0 .0 1,089,792 357,755 340,137 100.0 100.5 100.5 .0	<u>4,571.3</u> <u>.0</u> <u>6,689,928</u> <u>2,212,565</u> <u>2,101,928</u> <u>69.5</u> <u>69.5</u> <u>68.0</u> <u>68.0</u> <u>6.1</u>	<u>96,082.6</u> <u>8.5</u> 1 <u>32,947,297</u> <u>43,376,936</u> <u>41,128,172</u> <u>73.8</u> <u>73.8</u> <u>68.9*</u>





\* Item calculated with a Weighted Average

				*******
Report Period SEP 1984	UNIT	SHUTDOWNS	/ REDUCTIONS	* GINNA *

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

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Type	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Erro 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)

\* GINNA \*

## 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

## FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE......ROCHESTER GAS & ELECTRIC

CONTRACTOR ARCHITECT/ENGINEER.....GILBERT ASSOCIATES

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....WESTINGHOUSE

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....W. COOK

LICENSING PROJ MANAGER....G. DICK DOCKET NUMBER.....50-244

LICENSE & DATE ISSUANCE.... DPR-18, SEPTEMBER 19, 1969

PUBLIC DOCUMENT ROOM......ROCHESTER PUBLIC LIBRARY BUSINESS AND SOCIAL SCIENCE DIVISION 115 SOUTH AVENUE ROCHESTER, NEW YORK 14604

## INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

PAGE 2-118

# Report Period SEP 1984

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

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.

		INGS				**************************************
2. Reporting Period: 09/01/						
3. Utility Contact: J. P. D						AVERAGE DAILY POWER LEVEL (MWe) PLOT HADDAM NECK
4. Licensed Thermal Power (M			1825			THEOR .
5. Nameplate Rating (Gross M	We):	667 X 1	0.9 = 600			
6. Design Electrical Rating	(Net MWe):		582		1500 -	
7. Maximum Dependable Capaci	ty (Gross M	1We):	596			DESIGN ELEC. RATING - 582
8. Maximum Dependable Capaci	ty (Net MWe	ı): <u> </u>	569		1	MAX. DEPEND. CAP 569 (100%)
9. If Changes Occur Above Si NGAE	nce Last Re	eport, Give	Reasons:			
10. Power Level To Which Rest						
11. Reasons for Restrictions, NONE	If Any:				1000 -	
12. Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 146,831.0	GENERATED		일과 같은 것은 것을 못했다.
13. Hours Reactor Critical		5,121.8	126,323,2	NER.		
14. Rx Reserve Shtdwn Hrs		0	1,200.5			이 같은 것 같은 것 같은 것이 없다.
15. Hrs Generator On-Line		5,114.3	121,021.6	¥	- 1	NO NET DOLED OUTDUT TUTE MONTH
16. Unit Reserve Shtdwn Hrs	0		373.7	E		NO NET POWER OUTPUT THIS MONTH
17. Gross Therm Ener (MWH)	0	8,858,743	210,231,303		500 -	물건가 물건을 물건을 가지 않는 것이 없다.
18. Gross Elec Ener (MWH)	0	2,896,058	69,009,301			
19. Net Elec Ener (MWH)	-1,971	2,752,060	65,652,761		1	
20. Unit Service Factor		77.8	82.4		1	
21. Unit Avail Factor		77.8	82.7		-	
22. Unit Cap Factor (MDC Net)		73.6	<u>82.9</u> *			
23. Unit Cap Factor (DER Net)	0	71.9				
24. Unit Forced Outage Rate	0	. 0	5.9		0	5 10 15 20 25 30
25. Forced Outage Hours			1,158.0			DAYS
26. Shutdowns Sched Over Next NONE	6 Months (	Type,Date,D	Duration):			SEPTEMBER 1984
27. If Currently Shutdown Est	imated Star	tup Date:	10/23/84	* Item	calcul	lated with a Weighted Average

PAGE 2-120

PERCENT MDC

Report	Period SI	EP 19	84		UN	ΙŢ	sнu	TDOW	I N S	s / R	E	DU	ст	1 0	N	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Cor	nponent	=		Cau	150	& C	Corrective Action to Prevent Recurrence
84-01	08/01/84	s	720.0	с	4			RC	FI	UELXX	CO	DNTIN	UATI	ION	OF	CORE XII - XIII REFUELING.

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)		

### FACILITY DESCRIPTION

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

# FACILITY DATA

INSPECTION

UTILITY & CONTRACTOR INFORMATION

# UTILITY

LICENSEE......CONNECTICUT YANKEE ATOMIC POWER

CORPORATE ADDRESS.....P.O. BOX 270 HARTFORD, CONNECTICUT 06101

CONTRACTOR

ARCHITECT/ENGINEER.....STONE & WEBSTER

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

# REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR ..... P. SWETLAND

LICENSE & DATE ISSUANCE.... DPR-61, DECEMBER 27, 1974

PUBLIC DOCUMENT ROOM......RUSSELL LIBRARY 123 BROAD STREET MIDDLETOWN, CONNECTITCUT 06457 N 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.

PAGE 2-122

# Report Period SEP 1984

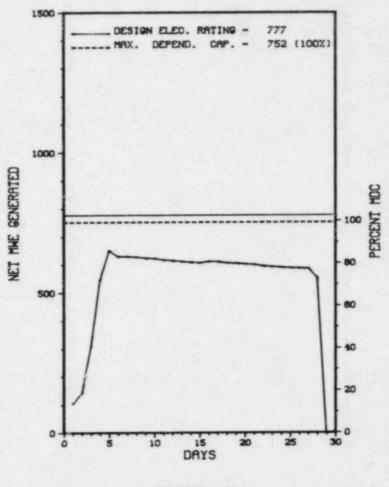
\*\*\*\*\* \* HADDAM NECK \*

# 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 DATE OF SUBJECT EVENT REPORT
NA THOUT BRAUTDED
NO INPUT PROVIDED.

1.	Docket: 50-321	OPERAT	TINGS	TATUS				
2.	Reporting Period:	84 Outage	e + On-line	Hrs: 720.0				
3.	Utility Contact: P. J. N	ORTH (912)	367-7851					
4.	Licensed Thermal Power (M	Mf):		2436				
5.	Nameplate Rating (Gross M	We):	1000 X	0.85 = 850				
6.	Design Electrical Rating	(Net MWe):		777				
7.	Maximum Dependable Capaci	801						
8.	Maximum Dependable Capaci	ty (Net MWa	a):	752				
9.	If Changes Occur Above Si	nce Last Re	eport, Give	Reasons:				
1	NONE							
10.	Power Level To Which Rest	ricted, If	Any (Net M	Je):				
11.	Reasons for Restrictions,	If Any:						
	NONE							
		MONTH	YEAR					
	Report Period Hrs	720.0						
	Hours Reactor Critical							
	Rx Reserve Shtdwn Hrs	.0	.0					
	Hrs Generator On-Line	668.3						
	Unit Reserve Shtdwn Hrs	0		(				
	Gross Therm Ener (MWH)			109, 179, 754				
	Gross Elec Ener (MWH)	398,050	3,797,550					
19.	Net Elec Ener (MWH)			33,459,674				
20.	Unit Service Factor	92.8	83.3	67.6				
21.	Unit Avail Factor	92.8	83.3	67.6				
22.	Unit Cap Factor (MDC Net)	69.4	73.0	58.0				
23.	Unit Cap Factor (DER Net)	67.2	70.6	56.1				
24.	Unit Forced Outage Rate	6	15.0	15.9				
25.	Forced Outage Hours	3.8	967.7	9,577.6				
26.	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,I	Duration):				
1.1	If Currently Shutdown Est		hun Data:	12/15/8/				

**	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
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SEPTEMBER 1984

,	leport	Period S	EP 19	84		UN	<b>IT SHU</b>	троы	NS / R	EDUCTIONS ************************************
	No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
8	84-68	09/01/84	F	3.8	A	2		нс	XXXXXX	LOSS OF CONDENSER VACUUM FROM INLEAKAGE THROUGH CRACK Between condenser & LP TURBINE. OUTAGE.
8	84-69	09/01/84	F	0.0	В	5		нс	XXXXXX	LOAD AT APPROXIMATELY 20% DUE TO INSTABILITY OF VACUUM. PROBLEMS BEING RESOLVED.
8	84-70	09/03/84	F	0.0	F	5		нс	XXXXXX	RAMPING UP FROM VACUUM PROBLEMS TO RATED VIA RECIRC FLOW.
8	84-71	09/28/84	s	0.0	с	5		RC	FUELXX	REDUCING LOAD FOR SCHEDULED REFUELING OUTAGE.
	4-72	09/29/84	s	47.9	с	2		RC	FUELXX	UNIT REFUELING DUTAGE IN PROGRESS.

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)

#### 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

## FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....GEORGIA POWER

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.....R. CRLENJAK

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

PUBLIC DOCUMENT ROOM.....APPLING COUNTY PUBLIC LIBRARY 301 CITY HALL DRIVE BAXLEY, GEORGIA 31563 INSPECTION STATUS

#### INSPECTION SUMMARY

+ INSPECTION AUGUST 14-17 (84-31): THIS SPECIAL UNANNOUNCED INSPECTION ENTAILED 28 INSPECTOR-HOURS ON SITE IN THE AREAS OF LICENSEE EVENT REPORTS, DESIGN CHANGE REQUEST MODIFICATIONS, AND INDEPENDENT INSPECTION EFFORTS. OF THE AREAS INSPECTED NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 21-24 (84-32): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 15 INSPECTOR-HOURS (8 INSPECTOR-HOURS ON BACK SHIFTS) ON SITE IN THE AREAS OF FIRE PROTECTION/PREVENTION PROGRAM AND IMPLEMENTATION. OF THE AREA INSPECTED NO DEVIATIONS WERE FOUND; ONE APPARENT VIOLATION WAS IDENTIFIED (FAILURE TO FOLLOW THE INSPECTION INSTRUCTIONS FOR THE 60-DAY HYDRANT HOUSE EQUIPMENT INSPECTION IN ACCORDANCE WITH THE SURVEILLANCE PROCEDURE).

INSPECTION AUGUST 21-24 (84-35): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 26 INSPECTOR-HOURS ON SITE IN THE AREAS OF PLANT TOUR, PRE-STARTUP TEST WITNESSING, TEST PROCEDURE REVIEW, AND TEST RESULTS EVALUATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 28-31 (84-36): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 17 INSPECTOR-HOURS ON SITE IN THE AREAS OF WITNESSING STARTUP TESTING ACTIVITIES AND REVIEW OF MAINTENANCE ACTIVITIES. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION SEPTEMBER 4-7 (84-37): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 14 INSPECTOR-HOURS ON SITE IN THE AREAS OF STARTUP TESTING FOLLOWING MAJOR SYSTEM MODIFICATION, TEST DATA REVIEW, AND PLANT TOUR. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

PAGE 2-126

# Report Period SEP 1984

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

#### ENFORCEMENT SUMMARY

FAILURE TO FOLLOW PROCEDURE RESULTING IN REMOVAL OF SNUBBERS FROM OPERATING RHR SYSTEM (TECH. SPEC. 6.8.1). (8430 4)

TECHNICAL SPECIFICATION SECTION 6.8.1.F REQUIRES WRITTEN PROCEDURES TO BE ESTABLISHED, IMPLEMENTED AND MAINTAINED COVERING THE FIRE PROTECTION PROGRAM IMPLEMENTATION. (1) PROCEDURE HNP-1-3372-E, REVISION 0, FIRE PROTECTION HYDRANT HOUSE INSFECTION, SECTION G. - 60 DAY INSPECTION, REQUIRES THAT TWO 50FT SECTIONS OF 2 1/2" HOSE CONNECTED TOGETHER, BE ARRANGED IN AN ACCORDIAN FOLD ON THE LOWER SHELF, AND THAT EQUIPMENT FOUND TO BE DEFECTIVE OR IN NEED OF REPAIR BE REPLACED OR REPAIRED PRIOR TO COMPLETION OF THE INSPECTION. CONTRARY TO THE ABOVE, ON AUGUST 23, 1984 THE HOSE INSIDE HYDRANT HOUSE 2 AND 4 WAS NOT ARRANGED IN ACCORDANCE WITH THE PROCEDURE AND IN HYDRANT HOUSE 2 A HYDRANT WRENCH WAS FOUND WITH A SEVERL' BENT HANDLE AND ANOTHER ONE WITH A HANDLE BROKE OFF. TECHNICAL SPECIFICATION SECTION 6.8.1.F REQUIRES WRITTEN PROCEDURES TO BE ESTABLISHED, IMPLEMENTED AND MAINTAINED COVERING THE FIRE PROTECTION PROGRAM IMPLEMENTATION. (1) PROCEDURE HNP-1-3372-E, REVISION O, FIRE PROTECTION HYDRANT HOUSE INSPECTION, SECTION G. - 60 DAY INSPECTION, REQUIRES THAT TWO 50FT SECTIONS OF 2 1/2" HOSE CONNECTED TOGETHER, BE ARRANGED IN AN ACCORDIAN FOLD ON THE LOWER SHELF, AND THAT EQUIPMENT FOUND TO BE DEFECTIVE OR IN NEED OF REPAIR BE REPLACED OR REPAIRED PRIOR TO COMPLETION OF THE INSPECTION. CONTRARY TO THE ABOVE, ON AUGUST 23, 1984 THE HOSE INSIDE HYDRANT HOUSE 2 AND 4 WAS NOT ARRANGED IN ACCORDIAN OF THE INSPECTION. CONTRARY TO THE ABOVE, ON AUGUST 23, 1984 THE HOSE INSIDE HYDRANT HOUSE 2 AND 4 WAS NOT ARRANGED IN ACCORDIANCE WITH THE PROCEDURE AND IN HYDRANT HOUSE 2 A HYDRANT WRENCH WAS FOUND WITH A SEVERLY BENT HANDLE AND ANOTHER ONE WITH A HANDLE BROKE OFF. (8432 5)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

+ MONE

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ REFUELING, RESTART DECEMBER 9, 1984

LAST IE SITE INSPECTION DATE: SEPTEMBER 4-7, 1984 +

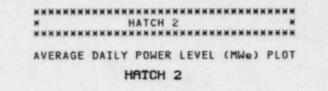
INSPECTION REPORT NO: 50-321/84-37 +

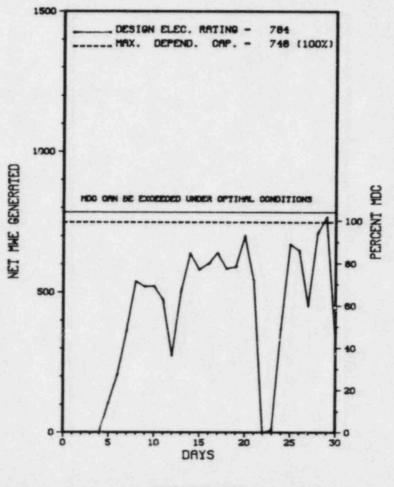
Report Period SEP 1984

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-013	07/29/84	08/22/84	HPCI AUTO STARTED AND INJECTED INTO THE REACTOR WHEN IT WAS NOT SUPPOSED TO. THE CAUSE OF THIS EVENT WAS A SHORT CIRCUIT.
84-015	08/03/84	08/29/84	UNIT 1 RECEIVED A REACTOR SCRAM ON TURBINE CONTROL VALVE FAST CLOSURE, THE CAUSE OF THESE EVENTS IS COMPONENT FAILURE.

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1.	Docket: 50-366 0	PERAT	ING 5	TATUS
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: P. J. NO	RTH (912)	367-7851	
4.	Licensed Thermal Power (MW	f):		2436
5.	Nameplate Rating (Gross MW	e):	1000 X	0.85 = 850
5.	Design Electrical Rating (	Net MWe):		784
7.	Maximum Dependable Capacit	y (Gross M	We):	804
8.	Maximum Dependable Capacit	y (Net MWe	):	748
9.	If Changes Occur Above Sin NONE	ce Last Re	port, Give	Reasons:
10.	Power Level To Which Restr	icted, If	Any (Net MW	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 44,472.0
3.	Hours Reactor Critical	685.0	1,059.4	28,298.3
4.	Rx Reserve Shtdwn Hrs			. 0
5.	Hrs Generator On-Line	566.1	874.3	26,807.2
6.	Unit Reserve Shtdwn Hrs	. 0		. 0
7.	Gross Therm Ener (MWH)	986,668	1,715,218	57,281,514
8.	Gross Elec Ener (MWH)	312,780	555,420	18,860,770
9.	Net Elec Ener (MWH)	294,596	507,464	17,925,706
0.	Unit Service Factor	78.6	13.3	60.3
1.	Unit Avail Factor	78.6	13.3	60.3
2.	Unit Cap Factor (MDC Net)	54.7	10.3	53.9
3.	Unit Cap Factor (DER Net)	52.2	9.8	51.4
4.	Unit Forced Outage Rate	10.5	7.0	11.5
25.	Forced Outage Hours	66.2	66.2	3,492.0
	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,D	)uration):
-	If Currently Shutdown Esti	mated Star	tup Date:	N/A





SEPTEMBER 1984

Report	Period SE	P 19	84		UN	IT	SHU	троы	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-5	01/13/84	s	69.8	н	4			CB	PIPEXX	RECIRC PIPE REPLACEMENT OUTAGE.
84-6	09/03/84	F	28.4	A	9			HA	VESSEL	TURBINE TRIPS DURING STARTUP DUE TO MSR HI LEVEL. UNIT OFF-LINE MAJORITY OF EVENT DURATION.
84-7	09/05/84	s	0.0	В	5			SH	INSTRU	STARTUP TESTING. LOAD INCREASED PER SHIFT SUPERVISOR INSTRUCTIONS.
84-8	09/11/84	F	0.0	Α	5			CB	PUMPXX	TRIP OF BOTH RECIRC PUMPS. LOAD REDUCTION.
84-9	09/11/84	s	0.0	В	5			SH	INSTRU	POWER DERATING FOR STARTUP TESTING. LOAD REDUCTION.
84-10	09/11/84	s	0.0	В	5			CB	PUMPXX	TESTING OF SCOOP TUBES ON RECIRC PUMPS.
84-11	09/12/84	s	0.0	F	5			RC	CONROD	PULLING RODS PER STA INSTRUCTIONS FOR RAMP UP.
84-12	09/15/84	F	0.0	A	5			нн	DEMINX	LOAD REDUCTION BECAUSE OF CONDENSATE DEMIN PROBLEMS.
84-13	09/21/84	F	25.6	A	3			CD	VALVEX	REACTOR SCRAM FROM INBOARD MSIV'S DRIFTING CLOSED.
84-14	09/23/84	s	17.9	F	3			SH	INSTRU	STARTUP FROM ABOVE REACTOR SCRAM.
84-15	09/24/84	F	0.0	A	5			нн	PUMPXX	CONDENSATE BOOSTER PUMP TRIPPED. LOAD REDUCTION.
84-16	09/26/84	F	0.0	A	5			CB	PUMPXX	"B" RECIRC PUMP DRIFTING DOWN. LOAD REDUCTION.
84-17	09/30/84	F	12.2	A	3			нс	FILTER	REACTOR SCRAM ON LOSS OF CONDENSER VACUUM.

\*\*\*\*\*\*\*\*\*\* \* SUMMARY \* \*\*\*\*\*\*\*\*\* HATCH 2 OPERATED ROUTINELY DURING SEPTEMBER.

Type	Reason	Method	System & Component
F-Forced 3-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)

PAGE 2-131

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#### 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

#### FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....GEORGIA POWER

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.....R. CRLENJAK

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

PUBLIC DOCUMENT ROOM..... APPLING COUNTY PUBLIC LIBRARY 301 CITY HALL DRIVE BAXLEY, GEORGIA 31563

# INSPECTION STATUS

#### INSPECTION SUMMARY

+ INSPECTION AUGUST 14-17 (84-31): THIS SPECIAL UNANNOUNCED INSPECTION ENTAILED 28 INSPECTOR-HOURS ON SITE IN THE AREAS OF LICENSEE EVENT REPORTS, DESIGN CHANGE REQUEST MODIFICATIONS, AND INDEPENDENT INSPECTION EFFORTS. OF THE AREAS INSPECTED NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 21-24 (84-32): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 15 INSPECTOR-HOURS (8 INSPECTOR-HOURS ON BACK SHIFTS) ON SITE IN THE AREAS OF FIRE PROTECTION/PREVENTION PROGRAM AND IMPLEMENTATION. OF THE AREA INSPECTED NO DEVIATIONS WERE FOUND; ONE APPARENT VIOLATION WAS IDENTIFIED (FAILURE TO FOLLOW THE INSPECTION INSTRUCTIONS FOR THE 60-DAY HYDRANT HOUSE EQUIPMENT INSPECTION IN ACCORDANCE WITH THE SURVEILLANCE PROCEDURE).

INSPECTION AUGUST 21-24 (84-35): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 26 INSPECTOR-HOURS ON SITE IN THE AREAS OF PLANT TOUR, PRE-STARTUP TEST WITNESSING, TEST PROCEDURE REVIEW, AND TEST RESULTS EVALUATION. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 28-31 (84-36): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 16 INSPECTOR-HOURS ON SITE IN THE AREAS OF WITNESSING STARTUP TESTING ACTIVITIES AND REVIEW OF MAINTENANCE ACTIVITIES. NO DEVIATIONS WERE IDENTIFIED.

INSPECTION SEPTEMBER 4-7 (84-37): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 13 INSPECTOR-HOURS ON SITE IN THE AREAS OF STARTUP TESTING FOLLOWING MAJOR SYSTEM MODIFICATION, TEST DATA REVIEW, AND PLANT TOUR. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

PAGE 2-132

# Report Period SEP 1984

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

INSPECTION SUMMARY

## ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATIONS.

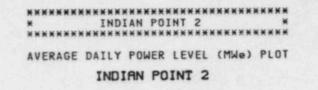
LAST IE SITE INSPECTION DATE: SEPTEMBER 4-7, 1984 +

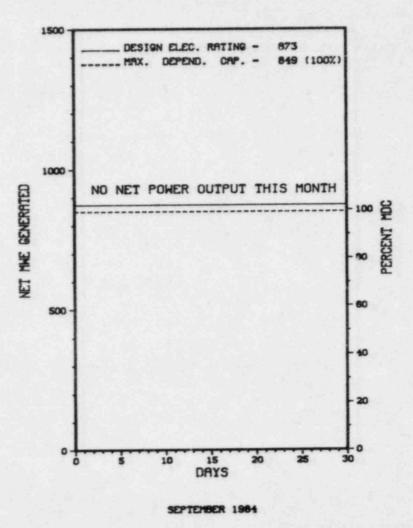
INSPECTION REPORT NO: 50-366/84-37 +

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-012	08/09/84	09/07/84	ESF SYSTEM ACTUATION DUE TO INSTRUMENT FAILURE, A TEMPERATURE SWITCH FAILED.
84-023	08/11/84	09/07/84	FAILURE OF DIESEL GENERATORS' EMERGENCY BUS LOADING TIMERS-LOADING TIMERS' RESET CLUTCH COILS FOR "2F" EMERGENCY BUS WERE BURNED OUT.

1.	Docket: 50-247 0	PERAT	INGS	TATUS
2.	Reporting Period:	4_ Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: MIKE BLA	TT (914) 5	26-5127	
4.	Licensed Thermal Power (MW	t):		2758
5.	Nameplate Rating (Gross MW	e):	1126 X	0.9 = 1013
6.	Design Electrical Rating (	Net MWe):		873
7.	Maximum Dependable Capacit	y (Gross M	We):	885
8.	Maximum Dependable Capacit	y (Net MWe	):	849
9.	If Changes Occur Above Sin		port, Give	Reasons:
0	NONE Power Level To Which Restr		Any (Net Mk	le):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 89,880.0
13.	Hours Reactor Critical	. 0	3,228.6	
14.	Rx Reserve Shtdwn Hrs	. 0		2,119.1
15.	Hrs Generator On-Line	. 0	3,204.7	57,400.2
16.	Unit Reserve Shtdwn Hrs	. 0		. 0
17.	Gross Therm Ener (MWH)	0	8,228,228	149,268,727
18.	Gross Elec Ener (MWH)	0	2,579,530	46,237,106
19.	Net Elec Ener (MWH)	-1,823	1,864,129	43,491,221
20.	Unit Service Factor	. 0	48.7	63.9
21.	Unit Avail Factor	. 0	48.7	63.9
22.	Unit Cap Factor (MDC Net)		33.2	57.1
23.	Unit Cap Factor (DER Net)	. 0	32.5	55.4
	Unit Forced Outage Rate		12.7	9.6
24.			466 5	5,842.7
	Forced Outage Hours			





\* Item calculated with a Weighted Average

Report	Period S	EP 198	84		UN	IT	SHU	TDOW	INS / R	RE	EDU	C 1	I	0	NS	**************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	E I		Ca	1056	8 8	Cor	rective Action to Prevent Recurrence	
4	06/02/84	s	720.0	с	4			RC	FUELXX	0	CYCLE	6/7	R	EFU	ELIN	G OUTAGE CONTINUED FROM AUGUST.	

Туре	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)

# FACILITY DESCRIPTION

LOCATION STATE......NEW YORK COUNTY......WESTCHESTER DIST AND DIRECTION FRGM 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

#### FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

- 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.....P. KOLTAY

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):

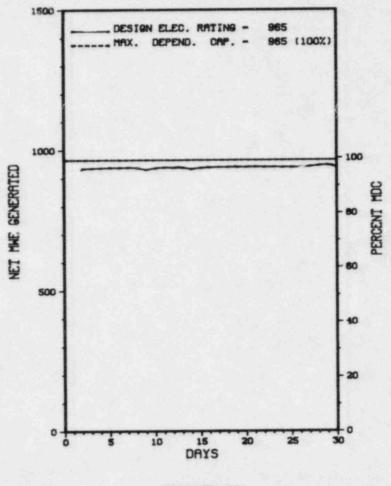
NO INPUT PROVIDED.

Report Period SEP 1984

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PECTION STATUS - (CONTINUED)						PUT PROVIDED.		REPORTS FROM LICENSEE	SUBJECT						
Report Period SEP 1984 INS	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.		NUMBER DATE OF DATE OF SU EVENT REPORT	NO INPUT PROVIDED.					

1. Docket: 50-286	OPERAT	INGS	TATUS
2. Reporting Period:	19/01/84 Outage	+ On-line	Hrs: 720.0
3. Utility Contact: _L.	KELLY (914) 739	-8200	
4. Licensed Thermal Pou	wer (MWt):		3025
5. Nameplate Rating (Gr	ross MWe):	1126 X	0.9 = 1013
6. Design Electrical Ra		· · · · · · · · · · · · · · · · · · ·	965
7. Maximum Dependable (	Capacity (Gross M	1We):	1000
8. Maximum Dependable (	Capacity (Net MW	e):	965
9. If Changes Occur Abo NONE		eport, Give	Reasons:
<ol> <li>Power Level To Which</li> <li>Reasons for Restrict</li> <li>NONE</li> </ol>			
12. Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 70,896.0
13. Hours Reactor Criti	cal720.0	5,821.5	40,246.0
14. Rx Reserve Shtdwn H	rs0		
15. Hrs Generator On-Li	ne720.0	5,595.6	38,737.9
16. Unit Reserve Shtdwn	Hrs0	.0	. 0
17. Gross Therm Ener (M	WH) 2,165,700	16,102,263	100,472,099
18. Gross Elec Ener (MW	H)699,680	5,240,595	31,607,206
19. Net Elec Ener (MWH)	674,920	5,045,053	30,289,231
20. Unit Service Factor	100.0	85.1	54.6
21. Unit Avail Factor		85.1	54.6
22. Unit Cap Factor (MD	C Net) 97.1		44.3
23. Unit Cap Factor (DE	R Net)97.1	79.5	44.3
24. Unit Forced Outage			
25. Forced Outage Hours			
26. Shutdowns Sched Ove S/G INSPECTION: 10/	er Next 6 Months	(Type,Date,	Duration):
27. If Currently Shutdo			

******	******
* *******	INDIAN POINT 3 *
AVERAGE	DAILY POWER LEVEL (MWe) PLOT
AVERAGE	INDIAN POINT 3



SEPTEMBER 1984

Report Period SEP 1984	UNIT SHUTDOWNS / REDUCTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
No Date Type Hours Reason 1	lethod LER Number System Component Cause & C	prrective Action to Prevent Recurrence

NONE

\*\*\*\*\*\*\*\*\*\* INDIAN POINT 3 OPERATED WITH NO OUTAGES OR REDUCTIONS DURING SEPTEMBER. \* SUMMARY \*

Туре	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)

# 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

# FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY

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.....T. KENNY

LICENSING PROJ MANAGER....P. POLK DOCKET NUMBER.....50-286

LICENSE & DATE ISSUANCE....DPR-64, APRIL 5, 1976

PUBLIC DOCUMENT ROOM......WHITE PLAINS PUBLIC LIBRARY 100 MARTINE AVENUE WHITE PLAINS, NEW YORK 10601

INSPECTION STATUS

#### INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENTS:

NC INPUT FROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

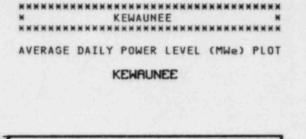
Report Period SEP 1984

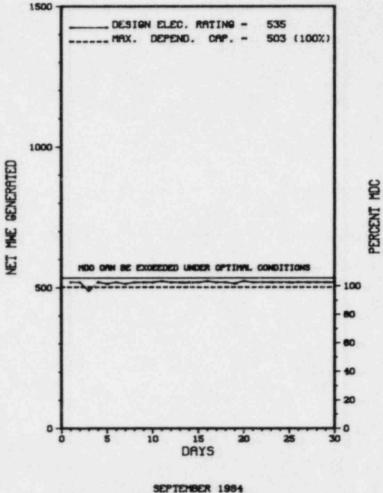
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**	×	×	×	×	×	×	×	*	×	×	×	×	×	×	×	×	×	×	×	×	*	×	×	×	×	×	×	×	×	×	×	¥	×	×

# OTHER ITEMS

MANAGERIAL ITEMS:
NO INPUT PROVIDED.
PLANT STATUS:
NO INPUT PROVIDED.
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.
INSPECTION REPORT NO: NO INPUT PROVIDED.
REPORTS FROM LICENSEE
NUMBER DATE OF DATE OF SUBJECT EVENT REPORT
NO INPUT PROVIDED.

1.	Docket: _50-305	OPERAT	ING S	TATUS						
2.	Reporting Period:	84 Outage	+ On-line	Hrs: 720.0						
3.	Utility Contact: G.RUITE	R (414) 388	-2560 X207							
4.	Licensed Thermal Power (Mi	Wt):		1650						
5.	Nameplate Rating (Gross MWe): 622 X 0.9 = 560									
6.	Design Electrical Rating	(Net MWe):		535						
7.	Maximum Dependable Capaci	ty (Gross M	We):	529						
8.	Maximum Dependable Capaci	ty (Net MWe	:	503						
	If Changes Occur Above Sin NONE	nce Last Re	port, Give	Reasons:						
	Power Level To Which Rest	ricted, If	Any (Net M	de):						
11.	Reasons for Restrictions, NONE	If Any:								
12.	Report Period Hrs	MONTH 720.0		CUMULATIVE						
13.	Hours Reactor Critical	720.0	5,361.5							
14.	Rx Reserve Shtdwn Hrs			2,330.5						
15.	Hrs Generator On-Line	720.0	5,319.4	75,131.9						
16.	Unit Reserve Shtdwn Hrs		0	10.0						
17.	Gross Therm Ener (MWH)	1, 183, 431	8,485,259	117,456,345						
18.	Gross Elec Ener (MWH)		2,800,900	38,659,000						
19.	Net Elec Ener (MWH)	373,485	2,667,000	36,799,036						
20.	Unit Service Factor	100.0	80.9	83.3						
ź1.	Unit Avail Factor	100.0	80.9	83.3						
22.	Unit Cap Factor (MDC Net)	103.1	80.6							
23.	Unit Cap Factor (DER Net)	97.0	75.8	76.2						
24.	Unit Forced Cutage Rate	0		3.7						
25.	Forced Outage Hours		15.7	2,745.4						
	Shutdowns Sched Over Next REFUELING & MAINTENANCE:									
	If Currently Shutdown Est									





\* Item calculated with a Weighted Average

Report Period SEP 1984	UNIT SHUTDOWNS / REDUCTIONS * KEWAUNEE * KEWAUNEE *	
No. Date Type Hours Reason	Method LER Number System Component Cause & Corrective Action to Prevent Recurrence	-

NONE

\*\*\*\*\*\*\*\*\*\*\* KEWAUNEE OPERATED AT FULL POWER WITH NO OUTAGES OR REDUCTIONS DURING SEPTEMBER.

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)

## 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

# FACILITY DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

LICENSEE......WISCONSIN PUBLIC SERVICE

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

CONTRACTOR ARCHITECT/ENGINEER......PIONEER SERVICES & ENGINEERING

the state of the second s

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

TURBINE SUPFLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....R. NELSON

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 SUMMARY

INSPECTION ON JUNE 18-22, 25-29, JULY 5-6, 9-13, 16-20, 23-27, 30-31, AUGUST 1-3, 6-10, (84-09): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTOR OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; INDEPENDENT INSPECTION; LICENSEE EVENT REPORTS; DESIGN CHANGES AND MODIFICATIONS; AND OPERATING EVENTS. THE INSPECTION INVOLVED A TOTAL OF 103 INSPECTOR-HOURS BY ONE INSPECTOR INCLUDING 16 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

****	******	******	**********	*****
*		KEWAUNE	EE	*
*****	******	******	*********	******

OTHER ITEMS

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE PLANT IS OPERATING NORMALLY.

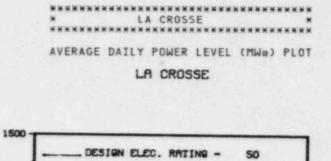
LAST IE SITE INSPECTION DATE: SEPTEMBER 10-14, 1984

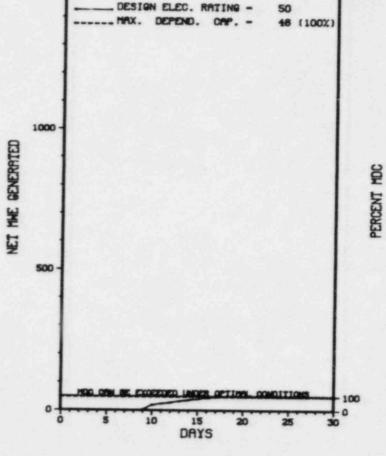
INSPECTION REPORT NO: 84-15

# REPORTS FROM LICENSEE

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

1.	Docket: 50-409 0	PERAT	INGS	TATUS							
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0							
3.	Utility Contact: G. R. GA	DOW (608) 6	89-2331								
4.	. Licensed Thermal Power (MWt): 165										
5.	Nameplate Rating (Gross MW	le):	76.8 X	0.85 =							
6.	Design Electrical Rating (	Net MWe):		50							
7.	Maximum Dependable Capacit	y (Gross ML	le):	50							
8.	Maximum Dependable Capacit	y (Net MWe)	:	48							
	If Changes Occur Above Sin NONE	ice Last Rep	port, Give	Reasons:							
10.	Power Level To Which Restr	icted, If A	ny (Net Mk	le):							
	Reasons for Restrictions,										
	NONE										
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0								
13.	Hours Reactor Critical	536.3	5,261.3								
14.	Rx Reserve Shtdwn Hrs	. 0		478.0							
15.	Hrs Generator On-Line	511.3	4,942.5								
16.	Unit Reserve Shtdw., Hrs	. 0		79.0							
17.	Gross Therm Ener (MWH)	74,158	735,355	11,017,659							
18.	Gross Elec Ener (MWH)	23,489	232,939	3,290,167							
19.	Net Elec Ener (MWH)	22,041	218,858	3,046,093							
20.	Unit Service Factor	71.0	75.2	61.0							
21. 1	Unit Avail Factor	71.0	75.2	61.1							
22. 1	Unit Cap Factor (MDC Net)	63.8	69.3	48.5							
23.	Unit Cap Factor (DER Net)	61.2	66.6	46.6							
24. 1	Unit Forced Outage Rate	29.0	22.4	10.4							
25.	Forced Outage Hours	208.7	1,426.3	8,269.6							
	Shutdowns Sched Over Next REFUELING, MARCH 1, 1985,										
	If Currently Shutdown Estin			N/A							





SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	ΙT	SHU	TDOW	NS / R	REDUCTIONS         ************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	t Cause & Corrective Action to Prevent Recurrence
84-09	08/29/84	F	208.7	A	4			RB	CRDRVE	THE REACTOR WAS MANUALLY SHUTDOWN AFTER UPPER CONTROL ROD DRIVE MECHANISM (UCRMD) NO. 19 STARTED LEAKING WATER AT THE FLANGE. THE UCRDM SEALING SURFACES WERE POLISHED AND THE O-RING WAS REPLACED.

Туре	Reason	Method	System & Component
F-Ferced 5 ed	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)

#### FACILITY DESCRIPTION

LOCATION STATE......WISCONSIN COUNTY......VERNON DIST AND DIRECTION FROM NEAREST POPULATION CTR...19 MI S OF LACROSSE, WISC TYPE OF REACTOR......BWR DATE INITIAL CRITICALITY...JULY 11, 1967 DATE ELEC ENER 1ST GENER...APRIL 26, 1968 DATE COMMERCIAL OPERATE....MGVEMBER 1, 1969 CONDENSER COOLING METHOD...ONCE THRU CONDENSER COOLING MATER....MISSISSIPPI RIVER ELECTRIC RELIABILITY COUNCIL......MID-CONTINENT AREA RELIABILITY COORDINATION

#### FACILITY DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....DAIRYLAND POWER

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

NUC STEAM SYS SUPPLIER...ALLIS-CHALMERS

TURBINE SUPPLIER.....ALLIS-CHALMERS

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....J. WIEBE

LICENSE & DATE ISSUANCE.... DPR-45, AUGUST 28, 1973

PUBLIC DOCUMENT ROOM.....LA CROSSE PUBLIC LIBRARY 800 MAIN STREET LA CROSSE, WISCONSIN 54601

# INSPECTION STATUS

#### INSPECTION SUMMARY

NO INSPECTION SUMMARIES FOR THIS TIME PERIOD

AGREEMENT

#### ENFORCEMENT SUMMARY

NONE

## OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

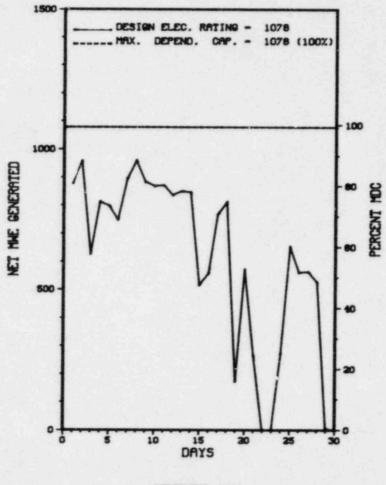
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# OTHER ITEMS

MANAGERIAL	ITEMS:		
NONE			
PLANT STAT	US:		
OPERATING	ROUTINELY		
LAST IE SI	TE INSPECTIO	ON DATE: S	EPTEMBER 26 - OCTOBER 5, 1984
INSPECTION	REPORT NO:	84-12	
			REPORTS FROM LICENSEE
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-12	08/15/84	09/07/84	1B HIGH PRESSURE SERVICE WATER DIESEL SURVEILLANCE TEST FAILURE
84-13	08/17/84	09/11/84	OFFGAS SAMPLING INTERVALS EXCEED TECHNICAL SPECIFICATION LIMIT
84-14	08/22/84	09/13/84	HIGH WATER LEVEL SCRAM SIGNAL WHILE SHUTDOWN
84-15	. 29/84	09/18/84	SHUTDOWN CONDENSER INITIATION DURING REACTOR SHUTDOWN

1.	Docket: _50-373	OPERA	TING 5	TATUS
2.	Reporting Period:	84 Outag	e + On-line	Hrs: 720.0
3.	Utility Contact: RANDY S	. DUS (815	357-6761 )	(324
4.	Licensed Thermal Power (M	Wt):		3323
5.	Nameplate Rating (Gross M	We):	1078	
6.	Design Electrical Rating	(Net MWe):		1078
7.	Maximum Dependable Capaci	ty (Gross I	MWe):	1078
8.	Maximum Dependable Capaci	ty (Net MW	e):	1036
9.	If Changes Occur Above Si	nce Last R	eport, Give	Reasons:
	NONE			
10.	Power Level To Which Rest			le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0		CUMULATIVE 6,575.0
	Hours Reactor Critical	631.4		5,377.2
14.	Rx Reserve Shtdwn Hrs	88.6		1, 164.9
15.	Hrs Generator On-Line	608.0	5, 193.7	5,193.7
16.	Unit Reserve Shtdwn Hrs	0	1.0	1.0
17.	Gross Therm Ener (MWH)	1,455,185	20,717,727	20,717,727
18.	Gross Elec Ener (MWH)	456,560	4,739,789	4,739,789
19.	Net Elec Ener (MWH)	432,697	4,512,808	4,512,808
20.	Unit Service Factor	84.4	79.0	79.0
21.	Unit Avail Factor	84.4	79.0	79.0
22.	Unit Cap Factor (MDC Net)	55.7	63.7	63.7
23.	Unit Cap Factor (DER Net)	55.7	63.7	63.7
24.	Unit Forced Outage Rate	10.0	17.1	17.1
25.	Forced Outage Hours	67.7	1,073.1	1,073.1
26.	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,D	uration):
	If Currently Shutdown Est			11/01/84

×				LI	AS	AL	L	E	1								*
****	***	***	***	*	**	**	*	**	*	**	**	**	**	**	* *	**	**
AVER	AGE	D	IL	Y	P	OL	IE	R	ι	EV	EL	(	ML	le	)	PL	OT



SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	іт ѕни	TDOW	NS / R	E D U C T I D N S *********************************
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
16	09/03/84	s	0.0	н	5				REDUCED POWER PER LOAD DISPATCHER.
17	09/14/84	s	0.0	н	5				REDUCED POWER PER LOAD DISPATCHER.
18	09/19/84	F	5.3	В	1				REDUCED POWER TO TROUBLESHHOT MAIN GENERATOR VOLTAGE IMBALANCE DUE TO POT TRANSFORMER FUSES.
19	09/21/84	F	62.4	в	3				REACTOR SCRAM CAUSED BY IM SURVEILLANCE LIS-MS-01.
20	09/29/84	5	44.3	н	1				TURBINE OFF LINE FOR SCHEDULED 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)

#### 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 GPERATE....JANUARY 1, 1984 CONDENSER COOLING METHOD...POND

CONDENSER COOLING WATER....RESERVOIR

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

# FACILITY DATA

#### 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

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....M. JORDAN

LICENSE & DATE ISSUANCE....NPF-11, AUGUST 13, 1982

PUBLIC DOCUMENT ROOM.....ILLINGIS VALLEY COMMUNITY COLLEGE RURAL ROUTE NO. 1 OGLESBY, ILLINOIS 16348

#### INSPECTION SUMMARY

INSPECTION ON AUGUST 21-24, (84-21): ROUTINE UNANNOUNCED OPERATIONAL INSPECTION OF GENERAL ORIENTATION TRAINING; CONTAMINATION CONTROLS; FILTER SYSTEMS DRAINS; AND POSTIMPLEMENTATION REVIEW OF NUREG-0737 TASK ITEM II.F.1.2. THE INSPECTION INVOLVED 39 INSPECTOR-HOURS ONSITE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

# ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

# NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

PAGE 2-152

Report Period SEP 1984

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS SHUTDOWN FOR A 30 DAY SURVEILLANCE OUTAGE

LAST IE SITE INSPECTION DATE: SEPTEMBER 19 - OCTOBER 29, 1984

INSPECTION REPORT NO: 84-26

# REPORTS FROM LICENSEE

DATE OF DATE OF SUBJECT NUMBER REPORT EVENT REACTOR WATER CLEANUP HIGH DIFFERENTIAL FLOW ISOLATION 84-47 08/07/84 08/28/84 MISSED NOBLE GAS SAMPLE FROM U-1 SBGT AND PARTICULATE AND IODINE SAMPLES COUNTED LATE 08/10/84 08/31/84 84-48 SECONDARY CONTAINMENT ISOLATION DURING TESTING 08/24/84 09/18/84 84-49 08/28/84 09/19/84 REACTOR WATER CLEANUP ISOLATION - DIFFERENTIAL FLOW 84-50 

	and the second			
	Docket: 50-374	OPERA	TING S	TATUS
2.	Reporting Period: _09/01/	184 Outage	e + On-line	Hrs: 720.
3.	Utility Contact: RANDY	. DUS (815)	357-6761	x324
4.	Licensed Thermal Power (M	1Wt):	-	3323
5.	Nameplate Rating (Gross M	1We):	1078	
6.	Design Electrical Rating	(Net MWe):		1078
7.	Maximum Dependable Capaci	ty (Gross M	1We):	1078
8.	Maximum Dependable Capaci	ty (Net MWe	;):	1036
9.	If Changes Occur Above Si	nce Last Re	aport, Give	Reasons:
	Power Level To Which Rest Reasons for Restrictions,			
	NONE	••• «"		
12.	Report Period Hrs	MONTH 720.0	YEAR 3,917.9	CUMULATIV
13.	Hours Reactor Critical	619.6	2,858.0	2,858.
14.	Rx Reserve Shtdwn Hrs	100.4	1,059.9	1,059.
15.	Hrs Generator On-Line	579.8	2,521.7	2,521.
16.	Unit Reserve Shtdwn Hrs			
			6 704 544	4,796,540
	Gross Therm Ener (MWH)	1,515,746	4,796,546	41170,240
17.	Gross Therm Ener (MWH) Gross Elec Ener (MWH)	<u>1,515,746</u> <u>502,128</u>	1,417,452	
17. 18.			1,417,452	1,417,45
17. 18. 19.	Gross Elec Ener (MWH)	502,128	1,417,452	1,417,45
17. 18. 19. 20.	Gross Elec Ener (MWH) Net Elec Ener (MWH)	502,128	1,417,452	1,417,45
17. 18. 19. 20. 21.	Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor	<u>502,128</u> <u>482,895</u>	<u>1,417,452</u> <u>1,343,615</u>	<u>1,417,45;</u> <u>1,343,61</u>
17. 18. 19. 20. 21. 22.	Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor	<u>502,128</u> <u>482,895</u>	1,417,452 1,343,615 NOT IN	<u>1,417,45;</u> <u>1,343,61</u>
17. 18. 19. 20. 21. 22.	Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	<u>502,128</u> <u>482,895</u>	1,417,452 1,343,615 NOT IN COMMERCIA	<u>1,417,45;</u> <u>1,343,61</u>
17. 18. 19. 20. 21. 22. 23. 24.	Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	<u>502,128</u> <u>482,895</u>	1,417,452 1,343,615 NOT IN COMMERCIA	<u>1,417,45;</u> <u>1,343,61</u>

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1500 ------ DESIGN ELEC. RATING - 1078 ----- MAX. DEPEND. CAP. - 1036 (100%) HOC ORN BE EXCEEDED UNDER OPTIMAL CONDITIONS 1000 -NET THE GENERATED PERCENT MDC 80 80 500 0 20 0-0 15 DAYS 25 5 10 20 Ó 30

SEPTEMBER 1984

# Report Period SEP 1984 UNIT SHUTDOWNS / REDUCTIONS

\*\*\*\*\*\* LASALLE 2 × ¥ \*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
28	09/05/84	S	0.0	В	5				REDUCED POWER FOR STP-30, REACTOR RECIRCULATION PUMP TRIP.
29	09/06/84	s	80.0	в	3				REACTOR SCRAM FOR STP-25 MSIV CLOSURE.
30	09/12/84	s	43.2	В	3				REACTOR SCRAM FOR STP-27-2 TURBINE CONTROL VALVE FAST CLOSURE.
31	09/25/84	F	0.0	A	5				REDUCED POWER DUE TO FCV OPERATION W/O LVDT FEEDBACK.
32	09/27/84	F	17.0	Α	3				TURBINE TRIP ON HIGH VIBRATION.

LASALLE 2 OPERATED ROUTINELY WITH 3 OUTAGES AND 2 REDUCTIONS IN THE MONTH OF SEPTEMBER. \*\*\*\*\*\*\*\* \* SUMMARY \*

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 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

CONDENSER COOLING METHOD ... POND

CONDENSER COOLING WATER....RESERVOIR

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

# FACILITY DATA

#### 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

TURBINE SUPPLIER.....GENERAL ELECTRIC

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....M. JORDAN

LICENSE & DATE ISSUANCE....NPF-18, MARCH 23, 1984

PUBLIC DOCUMENT ROOM.....ILLINOIS VALLEY COMMUNITY COLLEGE RURAL ROUTE NO. 1 OGLESBY, ILLINOIS 16348

#### INSPECTION SUMMARY

INSPECTION ON AUGUST 21-24, (84-27): ROUTINE UNANNOUNCED OPERATIONAL INSPECTION OF GENERAL DRIENTATION TRAINING; CONTAMINATION CONTROLS; FILTER SYSTEMS DRAINS; AND POSTIMPLEMENTATION REVIEW OF NUREG-0737 TASK ITEM II.F.1.2. THE INSPECTION INVOLVED 39 INSPECTOR-HOURS ONSITE. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

## NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

PAGE 2-156

# Report Period SEP 1984

OTHER ITEMS

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

STARTUP TESTING.

LAST IE SITE INSPECTION DATE: SEPTEMBER 19 - OCTOBER 29, 1984

**INSPECTION REPORT NO: 84-33** 

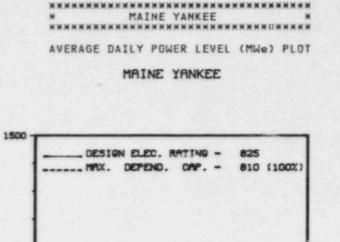
# REPORTS FROM LICENSEE

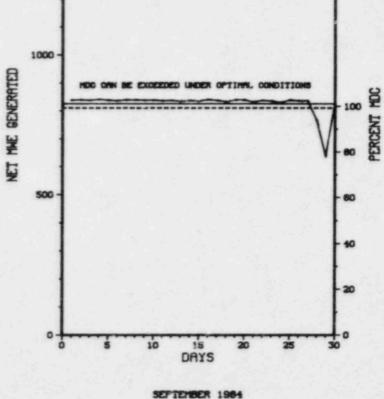
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-48	07/31/84	08/29/84	UNIT 2 REACTOR SCRAM INITIATION - REACTOR INSTRUMENT LINE VALVED IN
84-49	08/01/84	08/30/84	HIGH RADIATION DOORS UNSECURED
84-50	08/10/84	09/05/84	REACTOR SCRAM FROM REACTOR PRESSURE VESSEL HIGH PRESSURE
84-51	08/23/84	09/13/84	REACTOR WATER CLEANUP HIGH AMBIENT TEMPERATURE ISOLATION
84-52	08/17/84	09/11/84	REACTOR SCRAM
84-53	08/16/84	09/14/84	MISSED HYDROGEN SAMPLE OF OFF-GAS
84-54	08/18/84	09/14/34	REACTOR WATER CLEANUP HIGH DIFFERENTIAL FLOW ISOLATION
84-55	08/18/84	09/14/84	FAILURE OF "B" RHR FULL FLOW TEST VALVE TO CLOSE
84-56	08/27/84	09/18/84	REACTOR WATER CLEANUP ISOLATION
84-58	08/26/84	09/19/84	REACTOR WATER CLEANUP HIGH DIFFERENTIAL TEMPERATURE ISOLATION
84-59	08/28/84	09/19/84	MISSED SURVEILLANCE LIS-RD-403
84-60	08/28/84	09/20/84	CRD CHARGING WATER HEADER PRESSURE TIME DELAY GREATER THAN 10 SECONDS
84-62	08/27/84	09/21/84	DIVISION II ISOLATION ON RHR SHUTDOWN COOLING

PAGE 2-158 - (CONTINUED) LICENSEE FROM REPORTS Report Period SEP 1984

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1.	Docket: 50-309	OPERA	TINGS	TATUS
2.	Reporting Period:	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: BIEM	ILLER (617	827-8100	
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			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 104,267.6
13.	Hours Reactor Critical	720.0	4,570.4	83, 181.9
14.	Rx Reserve Shtdwn Hrs	,0		. 0
15.	Hrs Generator On-Line	720.0	4,452.0	80,531.7
16.	Unit Reserve Shtdwn Hrs		0	
17.	Gross Therm Ener (MWH)	1,872,024	10,967,843	180,079,631
18.	Gross Elec Ener (MWH)	615,530	3,588,020	58,941,170
19.	Net Elec Ener (MWH)		3.465,688	56, 167, 390
20.	Unit Service Factor	100.0	57.7	77.2
21.	Unit Avail Factor	100.0	67.7	77.2
22.	Unit Cap Factor (MDC Net)	102.2	65.1	<u>68.6</u> *
23.	Unit Cap Factor (DER Net)	100.3	63.9	<u>66.5</u> *
24.	Unit Forced Outage Rate		1.8	7.3
25.	Forced Outage Hours		83.8	5,497.2
26.	Shutdowns Sched Over Next 6 Months (Type,Date,Duration): NONE			
27.	If Currently Shutdown Est	imated Star	tun Date:	N/A







Report	Period SI	EP 19	84		UN	1 1	SHU	троы	NS	/ R	E	DU	C 1	TI	0	NS	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Compo	onent	-		Ca	ausi	e 8	Cor	rective Action to Prevent Recurrence
	09/28/84	5	0.0	В	5			HA	VAL	VEX	CO	NTRO	IL A	AND	TC	REP	ROUTINE TURBINE VALVE TESTING, MUSSEL AIR HEATER DRAIN TANK LEVEL CONTROL CTUATOR, POSITIONER AND CONTROLLER.

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)

# 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

#### FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE......MAINE YANKEE ATOMIC POWER

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

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

10 CFR 50 APPENDIX B CRITERIA VIII REQUIRES PROPER MARKING BY HEAT NUMBER, PART NUMBER, ETC., THROUGHOUT FABRICATION, INSTALLATION AND USE. CONTRARY TO THE ABOVE PROPER TRACABILITY WAS NOT PROVIDED FOR PORTIONS OF THE AUXILIARY FEEDWATER SYSTEM.

10 CFR 50 APPENDIX B CRITERIA X AND THE MAINE YANKEE QUALITY ASSURANCE PROGRAM REQUIRES INSPECTIONS OF ACTIVITIES TO VERIFY CONFORMANCE WITH DOCUMENTED INSTRUCTIONS. CONTRARY TO THE ABOVE, ON APRIL 18, 1984, INSPECTION OF WELDING ON THE STEAM GENERATOR THERMAL SLEEVE WAS SIGNED OFF PRIOR TO COMPLETION OF WELDING. (8406 4)

APPENDIX R OF 10 CFR 50 REQUIRES FIRE DOORS BE INSPECTED DAILY TO VERIFY DOORWAYS ARE FREE FROM OBSTRUCTIONS. CONTRARY TO THE ABOVE, ON APRIL 5, 1984, THE RCA STORAGE DOOR WAS INTENTIONALLY BLOCKED OPEN. TECHNICAL SPECIFICATION 3.16.B.3 REQUIRES EXPECTED DISCHARGE MONITOR RESULTS BE COMPARED TO ACTUAL RESULTS. T.S. 5.10 REQUIRES RETENTION OF RECORDS OF RELEASES FOR THE DURATION OF PLANT LICENSE. CONTRARY TO THE ABOVE, RECORDS PERTAINING TO AN APRIL 2, 1984 DISCHARGE OF STEAM GENERATOR #1 WERE NOT RETAINED. 10 CFR 50 APPENDIX B CRITERIA V AND THE MAINE YANKEE QUALITY ASSURANCE PROGRAM REQUIRES PROCEDURAL COMPLIANCE. CONTRARY TO THE

PAGE 2-162

#### Report P riod SEP 1984

Report Period SEP 1984

# ENFORCEMENT SUMMARY

ABOVE ON APRIL 17, 1984. NO LOG WAS MAINTAINED OF ITEMS TAKEN INTO THE STEAM GENERATORS DURING REPAIRS. (8406 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.

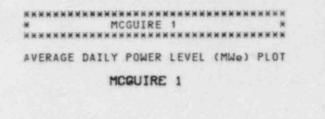
INSPECTION REPORT NO: NO INPUT PROVIDED.

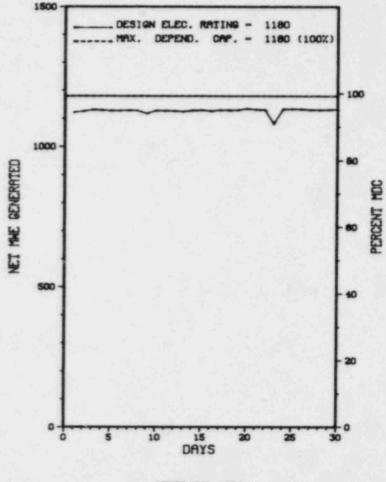
# REPORTS FROM LICENSEE

2022222222				 	 =========	 	=========	 
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT					

NO INPUT PROVIDED.

1.	Docket: 50-369	PERAI	TING S	TATUS
2.	Reporting Period:	84 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: J. A. RI	EAVIS (704	373-8552	
4.	Licensed Thermal Power (M	Wt):		3411
	Nameplate Rating (Gross M			
6.	Design Electrical Rating	(Net MWe):		1180
7.	Maximum Dependable Capacit	ty (Gross M	1We):	1225
8.	Maximum Dependable Capacit	ty (Net MWa	2):	1180
	If Changes Occur Above Sin NONE			Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net Mk	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
	Report Period Hrs	MONTH	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical	720.0	4,803.3	17,331.6
14.	Rx Reserve Shtdwn Hrs			. 0
5.	Hrs Generator On-Line	720.0	4,739.9	16,689.0
16.	Unit Reserve Shtdwn Hrs	0	.0	
17.	Gross Therm Ener (MWH)	2,480,184	15,544,001	42,981,070
18.	Gross Elec Ener (MWH)	842,225	5,401,221	14,918,345
19.	Net Elec Ener (MWH)	811,879	5,177,013	14, 133, 268
20.	Unit Service Factor	100.0	72.1	67.2
1.	Unit Avail Factor	100.0	72.1	67.2
22.	Unit Cap Factor (MDC Net)	95.6	66.7	48.2
23.	Unit Cap Factor (DER Net)	95.6	66.7	48.2
24.	Unit Forced Outage Rate	. 0	4.3	
25.	Forced Outage Hours	.0	214.4	3,299.9
			Tuno Dato D	uration):
26.	Shutdowns Sched Over Next	6 Montes	ciype, vace, v	di actoni.





SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	IT	SHU	TDOW	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
33-P	09/09/84	s	0.0	F	5			zz	ZZZZZZ	DISPATCH REDUCTION.
34-P	09/22/84	s	0.0	В	5			cc	VALVEX	TURBINE VALVE MOVEMENT TESTING.
35-P	09/23/84	F	0.0	A	5			IF	INSTRU	TROUBLESHOOTING TURBINE CONTROLS.

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)

### 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

# FACILITY DATA

## 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

LICENSE & DATE ISSUANCE.... NPF-9, JULY 8, 1981

PUBLIC DOCUMENT ROOM.....MS. DAWN HUBBS ATKINS LIBRARY UNIVERSITY OF NORTH CAROLINA - CHARLOTTE UNCC STATION, CHARLOTTE, NC 28223

#### INSPECTION SUMMARY

# INSPECTION STATUS

+ INSPECTION APRIL 16-20 (84-10): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED 32 INSPECTOR-HOURS ON SITE IN THE AREA OF LICENSEE EVENT FOLLOWUP. ONE VIOLATION WAS IDENTIFIED - FAILURE TO FOLLOW INDEPENDENT VERIFICATION PROCEDURE, RESULTING IN AN INOPERABLE CENTRIFUGAL CHARGING PUMP FOR SEVEN DAYS.

INSPECTION MAY 20 - JUNE 20 (84-17): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 122 INSPECTOR-HOURS ON SITE IN THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES AND OPEN ITEMS REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 30 - AUGUST & (84-22): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 22.5 INSPECTOR-HOURS ONSITE IN THE AREAS OF INSERVICE INSPECTION-REVIEW AND EVALUATION OF RECORDS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 20 - AUGUST 20 (84-23): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 84 INSPECTOR-HOURS ON SITE IN THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING AND MAINTENANCE ACTIVITIES. ONE VIOLATION WAS IDENTIFIED - FAILURE TO FILE A REPORT ON LOOSE PARTS MONITOR.

INSPECTION AUGUST 20-22 (84-26): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 31 INSPECTOR-HOURS (& INSPECTOR-HOURS ON BACKSHIFT) AT THE SITE IN THE AREAS OF EVENT FOLLOWUP. NO VIOLATIONS/DEVIATIONS WERE IDENTIFIED.

PAGE 2-166

# Report Period SEP 1984

Report Period SEP 1984

#### INSPECTION SUMMARY

INSPECTION SEPTEMBER 4-7 (84-27): THIS ROUTINE UNANNOUNCED INSPECTION ENTAILED 12 INSPECTOR-HOURS ON SITE (TWO HOURS ON BACKSHIFT) INSPECTING: CHANGES TO THE APPROVED PHYSICAL SECURITY PLAN AND IMPLEMENTING PROCEDURES; SECURITY ORGANIZATION-PERSONNEL; TESTING AND MAINTENANCE; PHYSICAL BARRIERS-VITAL AREAS; ASSESSMENT AIDS; ACCESS CONTROL-PERSONNEL; AND ALARM STATIONS. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS AND THE APPROVED PHYSICAL SECURITY PLAN IN THE 7 AREAS INSPECTED.

## 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: SEPTEMBER 4-7, 1984 +

INSPECTION REPORT NO: 50-369/84-27 +

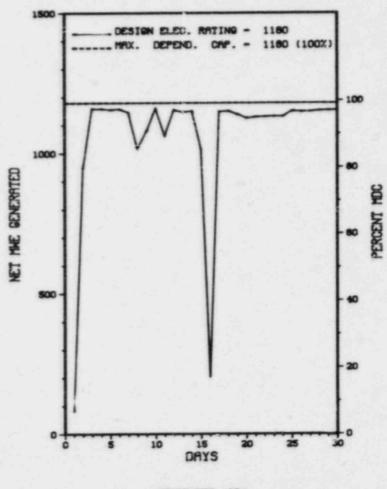
## REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-022	07/20/84	08/20/84	FIRE PROTECTION FILTER TRAINS DO NOT INCORPORATE SEISMIC DESIGN CRITERIA, MODIFICATIONS ARE PLANNED.
84-023	07/23/84	08/22/84	VALVE DRIFT TO CLOSED POSITION, THE FAILURE IS BEING INVESTIGATED.

4	Utility Contact: J. A. RI Licensed Thermal Power (Mi			3411
	Nameplate Rating (Gross M			
	Design Electrical Rating			1180
	Maximum Dependable Capacit			
	Maximum Dependable Capacit		and the second second	
	If Changes Occur Above Sin			
	Power Level To Which Rest			
	Reasons for Restrictions, NONE			
12.	Report Period Hrs	MONTH 720.0		CUMULATIVE
13.	Hours Reactor Critical	695.0	4,150.3	4,150.3
14.	Rx Reserve Shtdwn Hrs	0	0	
	Rx Reserve Shtdwn Hrs Hrs Generator On-Line		4,121.3	
15.	and the state of the strength of the state			4,121.3
15. 16.	Hrs Generator On-Line	<u>690.2</u>	4,121.3	4,121.3
15. 16. 17.	Hrs Generator On-Line Unit Reserve Sitdwn Hrs	<u></u>	4,121.3	4,121.3
15. 16. 17. 18.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH)	<u>690.2</u> <u>.0</u> <u>2,272,550</u> <u>793,036</u>	<u>4, 121.3</u> <u>0</u> 1 <u>3, 568, 563</u>	4,121.3 
15. 16. 17. 18.	Hrs Generator On-Line Unit Reserve Sitdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH)	<u>690.2</u> .0 2,272,550 <u>793,036</u> <u>763,083</u>	<u>4,121,3</u> <u>0</u> 1 <u>3,568,563</u> <u>4,810,784</u>	4, 121.3 13, 568, 563 4, 810, 784 4, 619, 853
15. 16. 17. 18. 19. 20.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH)	<u>690.2</u> <u>.0</u> 2,272,550 <u>793,036</u> <u>763,083</u> <u>95.9</u>	<u>4,121,3</u> <u>0</u> 1 <u>3,568,563</u> <u>4,810,784</u> <u>4,619,852</u>	4, 121.3 13, 568, 563 4, 810, 784 4, 619, 853 80, 3
15. 16. 17. 18. 19. 20. 21.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor	<u>690.2</u> <u>.0</u> <u>2,272,550</u> <u>793,036</u> <u>763,083</u> <u>95.9</u> <u>95.9</u>	<u>4,121.3</u> <u>0</u> 13,568,563 <u>4,810,784</u> <u>4,619,852</u> <u>80.3</u> <u>20.3</u>	4,121.3 13,568,563 4,810,784 4,619,853 80.3
15. 16. 17. 18. 19. 20. 21. 22.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor	<u>690.2</u> <u>.0</u> <u>2,272,550</u> <u>793,036</u> <u>763,083</u> <u>95.9</u> <u>95.9</u> <u>89.8</u>	<u>4,121.3</u> <u>.0</u> 1 <u>3,568,563</u> <u>4,810,784</u> <u>4,619,852</u> <u>80.3</u> <u>.03</u> <u>76,2</u>	4,121.3 13,568,563 4,810,784 4,619,853 80.3 80.3 76.3
15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Hrs Generator On-Line Unit Reserve Sitdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Outage Rate	<u>690.2</u> <u>.0</u> <u>2,272,550</u> <u>793,036</u> <u>763,083</u> <u>95.9</u> <u>95.9</u> <u>95.9</u> <u>89.8</u> <u>89.8</u> <u>89.8</u> <u>4.1</u>	<u>4,121.3</u> <u>.0</u> 1 <u>3,568,563</u> <u>4,810,784</u> <u>4,619,852</u> <u>80.3</u> <u>80.3</u> <u>.0.3</u> <u>.76.2</u> <u>.76.2</u> <u>.18.4</u>	4,121.3 13,568,563 4,810,784 4,619,853 80.3 80.3 76.3 18.4
15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	<u>690.2</u> <u>.0</u> <u>2,272,550</u> <u>793,036</u> <u>763,083</u> <u>95.9</u> <u>95.9</u> <u>95.9</u> <u>89.8</u> <u>89.8</u> <u>89.8</u> <u>4.1</u>	<u>4,121.3</u> <u>.0</u> 1 <u>3,568,563</u> <u>4,810,784</u> <u>4,619,852</u> <u>80.3</u> <u>80.3</u> <u>.0.3</u> <u>.76.2</u> <u>.76.2</u> <u>.18.4</u>	4, 121.3 13, 568, 563 4, 810, 784 4, 619, 853 80.3 80.3 76.3 18.4

******	*****	******	*****	*****	****	
*	MO	GUIRE	2		×	
******	*****	*****	*****	*****	****	
AVERAGE	DAILY	POWER	LEVEL	(MWe)	PLOT	

MCGUIRE 2



SEPTEMBER 1984

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Report Period SEP 1984

UNIT SHUTDOWNS / REDUCTIONS

\* MCGUIRE 2 \*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
12	09/01/84	F	14.9	G	3		ZZ	ZZZZZZ	TECHNICIAN WORKED ON WRONG CONNECTION DURING PROTECTION CABINET TESTING.
44-P	09/01/84	F	0.0	A	5		СН	INSTRU	ERRONEOUS THRUST BEARING WEAR SIGNAL ON FEEDWATER PUMP.
45-P	09/02/84	F	0.0	۸	5		СН	INSTRU	FEEDWATER PUMP CONTROL PROBLEMS.
46-P	09/07/84	F	0.0	Α	5		cc	VALVEX	ISOLATE FEEDWATER HEATER TO REPAIR RELIEF VALVE.
47-P	09/07/84	S	0.0	В	5		IB	INSTRU	INCORE/EXCORE CALIBRATIONS.
48-P	09/08/84	F	0.0	G	5		ZZ	ZZZZZZ	INADVERTENT OVERBORATION.
49-P	09/08/84	S	0.0	в	5		IB	INSTRU	INCORE/EXCORE CALIBRATIONS.
50-P	09/10/84	F	0.0	A	5		СН	INSTRU	REPAIR FEEDWATER PUMP CONTROL OIL.
51-P	09/12/84	F	0.0	A	5		СН	HTEXCH	ISOLATE FEEDWATER HEATERS FOR WELDING.
13	09/16/84	F	14.9	A	1		СВ	PUMPXX	CHECK/ADD OIL TO THE REACTOR COOLANT PUMPS.
52-P	09/19/84	F	0.0	A	5		нн	PUMPXX	HEATER DRAIN PUMP OUT OF SERVICE FOR SEAL WORK.
53-P	09/26/84	F	0.0	A	5		нн	PUMPXX	HEATER DRAIN PUMP TRIPPED DUE TO EMERGENCY LOW LEVEL.

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)

## 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

# FACILITY DATA

# 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

LICENSE & DATE ISSUANCE....NPF-17, MAY 27, 1983

PUBLIC DOCUMENT ROOM......MS. DAWN HUBBS ATKINS LIBRARY UNIVERSITY OF NORTH CAROLINA - CHARLOTTE UNCC STATION, CHARLOTTE, NC 28223

#### INSPECTION SUMMARY

# INSPECTION STATUS

+ INSPECTION MAY 20 - JUNE 20 (84-14): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 122 INSPECTOR-HOURS ON SITE IN THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING, MAINTENANCE ACTIVITIES AND OPEN ITEMS REVIEW. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 30 - AUGUST 8 (84-19): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 22.5 INSPECTOR-HOURS ONSITE IN THE AREAS OF OBSERVATION OF UNIT 2 COOLANT PUMP "24" NUMBER 1 SEAL REPLACEMENT AND TWO-INCH DECAY HEAT (ND) PIPE BREAK AND PIPE SUPPORT FAILURES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 20 - AUGUST 20 (84-20): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 84 INSPECTOR-HOURS ON SITE IN THE AREAS OF OPERATIONS SAFETY VERIFICATION, SURVEILLANCE TESTING AND MAINTENANCE ACTIVITIES.

INSPECTION AUGUST 20-22 (84-23): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 31 INSPECTOR-HOURS (& INSPECTOR-HOURS ON BACKSHIFT) AT THE SITE IN THE AREAS OF EVENT FOLLOWUP. NO VIOLATIONS/DEVIATIONS WERE IDENTIFIED.

INSPECTION SEPTEMBER 4-7 (84-24): THIS ROUTINE UNANNOUNCED INSPECTION ENTAILED 12 INSPECTOR-HOURS ON SITE (TWO HOURS ON BACKSHIFT) INSPECTING: CHANGES TO THE APPROVED PHYSICAL SECURITY PLAN AND IMPLEMENTING PROCEDURES; SECURITY ORGANIZATION-PERSONNEL; TESTING AND MAINTENANCE; PHYSICAL BARRIERS-VITAL AREAS; ASSESSMENT AIDS; ACCESS CONTROL-PERSONNEL; AND PAGE 2-170 Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

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# INSPECTION SUMMARY

ALARM STATIONS. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS AND THE APPROVED PHYSICAL SECURITY PLAN IN THE 7 AREAS INSPECTED.

# ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

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+ POWER OPERATION.
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LAST IE SITE INSPECTION DATE: SEPTEMBER 4-7, 1984 +

INSPECTION REPORT NO: 50-370/84-24 +

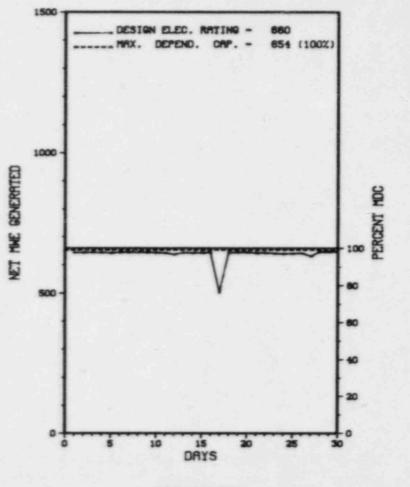
## REPORTS FROM LICENSEE

		============		
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT	
84-015	07/03/84	08/02/84	A TECHNICIAN ERRONEOUSLY LIFTED A LEAD IN THE SOLENOID DEENERGIZED CAUSING THE MSIV TO CLOSE.	
84-016	07/19/84	08/20/84	REACTOR TRIP DURING TEST, THE CAUSE OF THE TRIP IS ATTRIBUTED TO A DEFICIENCY IN THE PROCEDURE.	

1.	Docket: _50-245_	OPERAT	INGS	TATUS
Ζ.	Reporting Period:	84 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: GEORGE	HARRAN (203	) 447-1791	X4194
4.	Licensed Thermal Power (M	Wt):		2011
5.	Nameplate Rating (Gross M	We):	735 X (	1.9 = 662
6.	Design Electrical Rating	(Net MWe):		660
7.	Maximum Dependable Capaci	ty (Gross M	We):	684
8.	Maximum Dependable Capaci	ty (Net MWe	):	654
9.	If Changes Occur Above Sin	nce Last Re	port, Give	Reasons:
1.	NONE			
10.	Power Level To Which Rest	ricted. If	Any (Net M	le):
11.	Reasons for Restrictions,	If Any:		
1.	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 121,319.0
13.	Hours Reactor Critical	720.0	4,781.2	91,545.7
14.	Rx Reserve Shtdwn Hrs	0	0	2,775.8
15.	Hrs Generator On-Line	720.0	4,710.3	88,727.5
16.	Unit Reserve Shtdwn Hrs	0	0	26.5
17.	Gross Therm Ener (MWH)	1,431,526	9,012,893	162,061,761
18.	Gross Elec Ener (MWH)	481,000	3,060,300	54,423,496
19.	Net Elec Ener (MWH)	459,866	2,914,407	51,895,664
20.	Unit Service Factor	100.0	71.6	73.1
21.	Unit Avail Factor	100.0	71.6	73.2
22.	Unit Cap Factor (MDC Net)	97.7	67.8	65.4
23.	Unit Cap Factor (DER Net)	96.8	67.2	64.8
24.	Unit Forced Outage Rate	0		13.4
25.	Forced Outage Hours		41.5	5,715.2
	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,I	Duration):
	If Currently Shutdown Est	imated Star	tun Data:	N/A

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MILLSTONE 1



SEPTEMBER 1984

Report	Period SEP 19	84		UN	I T	SHU	TDO		NS	/ R	E	DU	ст	I	N	S * MILLSTONE 1 *
No.	Date Type	Hours	Reason	Method	LER	Number	Syst	em	Compo	nent	=	_	Ça	use	8 (	Corrective Action to Prevent Recurrence
5	09/17/84 S	0.0	в	5							RE	DUCE	D P	OWE	2 10	O REBRUSH 'A' RECIRCULATION M.G. SET.

\*\*\*\*\*\*\*\*\*\* MILLSTONE 1 OPERATED AT FULL POWER WITH 1 REDUCTION DURING SEPTEMBER. \* SUMMARY \*

Type	Reason	Method	System & Component
F-Force S-Sched		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)

### FACILITY DESCRIPTION

# LOCATION

STATE.....CONNECTICUT

COUNTY ..... NEW LONDON

DIST AND DIRECTION FROM NEAREST POPULATION CTR...5 MI SW OF NEW LONDON, CONN

TYPE OF REACTOR......BWR

DATE INITIAL CRITICALITY...OCTOBER 26, 1970

DATE ELEC ENER 1ST GENER...NOVEMBER 29, 1970

DATE COMMERCIAL OPERATE.... MARCH 1, 1971

CONDENSER COOLING METHOD ... ONCE THRU

CONDENSER COOLING WATER....LONG ISLAND SOUND

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

# FACILITY DATA

Report Period SEP 1984

## 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.....J. SHEDLOSKY

LICENSING PROJ MANAGER....J. SHEA DOCKET NUMBER......50-245

LICENSE & DATE ISSUANCE.... DPR-21, OCTOBER 26, 1970

PUBLIC DOCUMENT ROOM......WATERFORD PUBLIC LIBRARY 45 ROPE FERRY ROAD ROUTE 156 WATERFORD, CONNECTICUT 06385 IN SPECTION STATUS

#### INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

¥	×	×	×	×	×	×	×	¥	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	¥	×	×	ŧ
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OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

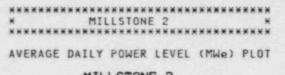
INSPECTION REPORT NO: NO INPUT PROVIDED.

# REPORTS FROM LICENSEE

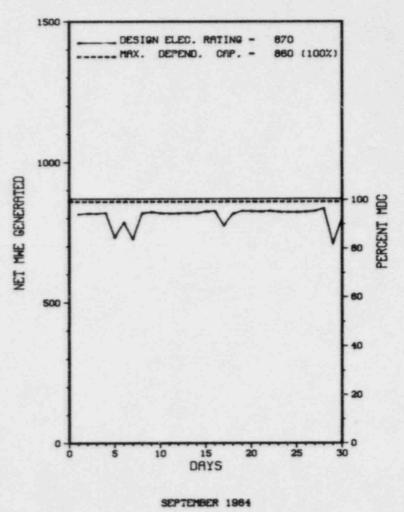
NUMBER	DATE OF	DATE OF REPORT	SUBJECT	
	L.V.LIV.	ALIVAI		

NO INPUT PROVIDED.

١.	Docket: 50-336	OPERA	TING S	TATUS
2.	Reporting Period:	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: BORC	HERT (203)	447-1791 X	4418
4.	Licensed Thermal Power (M	Wt):		2700
5.	Nameplate Rating (Gross M	We):	1011 X	0.9 = 910
6.	Design Electrical Rating	(Net MWe):		870
7.	Maximum Dependable Capaci	ty (Gross I	MWe):	895
8.	Maximum Dependable Capaci	ty (Net MW	e):	860
9.	If Changes Occur Above Si NONE	nce Last R	eport, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	de):
11.	Reasons for Restrictions.	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical	720.0	_6,451.9	54,816.8
14.	Rx Reserve Shtdwn Hrs		. 0	2,166.9
15.	Hrs Generator On-Line	720.0	6,149.1	52,331.0
16.	Unit Reserve Shtdwn Hrs	. 0		468.2
17.	Gross Therm Ener (MWH)	1,910,948	15,911,059	132,227,435
18.	Gross Elec Ener (MWH)	604,400	5,109,401	42,906,773
19.	Net Elec Ener (MWH)	582,128	4,909,654	41, 126, 402
20.	Unit Service Factor	100.0	93.5	68.1
21.	Unit Avail Factor	100.0	93.5	68.7
22.	Unit Cap Factor (MDC Net)	94.0	86.8	<u>63.6</u> *
23.	Unit Cap Factor (DER Net)	92.9	85.8	<u>62.8</u> *
24.	Unit Forced Outage Rate		2.7	17.5
25.	Forced Outage Hours		173.4	9,796.2
26.	Shutdowns Sched Over Next	6 Months	Type, Date, I	Duration):
	REFUELING & MAINTENANCE:	02/85 - 2 1	IONTHS.	
27.	If Currently Shutdown Est	imated Star	rtup Date:	NZA



MILLSTONE 2



\* Item calculated with a Weighted Average

PAGE 2-176

5

Repor	Report Period SEP 1984					IT	SHU	TDOW	E D U C T I O N S *********************************	
No.	Date	Туре	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
9	09/05/84	F	0.0	A	5			SG	COND	REDUCED POWER FROM 100% TO 80% POWER TO PERFORM LEAK CHECK TESTS ON CONDENSER "D" WATER BOX. LEAK CHECKS PERFORMED AND WATER BOX CLOSED.
10	09/07/84	F	0.0	A	5			AA	ROD	WHILE AT 100% POWER CEA NO. 26 DROPPED INTO CORE DUE TO POWER SUPPLY FAILURE. POWER WAS REDUCED TO < 70% POWER AND CEA WAS RECOVERED.

\*\*\*\*\*\*\*\*\*\* MILLSTONE 2 OPERATED WITH 2 REDUCTIONS DURING SEPTEMBER. \* SUMMARY \* \*\*\*\*\*\*\*

Туре	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 & Liceose 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)

# 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

#### FACILITY DATA

### UTILITY & CONTRACTOR INFORMATION

Report Period SEP 1984

# 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.....J. SHEDLOSKY

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

PUBLIC DOCUMENT ROOM.....WATERFORD PUBLIC LIBRARY 45 ROPE FERRY ROAD ROUTE 156 WATERFORD, CONNECTICUT 06385

# INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

## ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

# OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

FLANT STATUS:

NO INPUT PROVIDED.

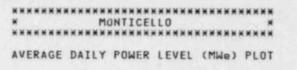
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

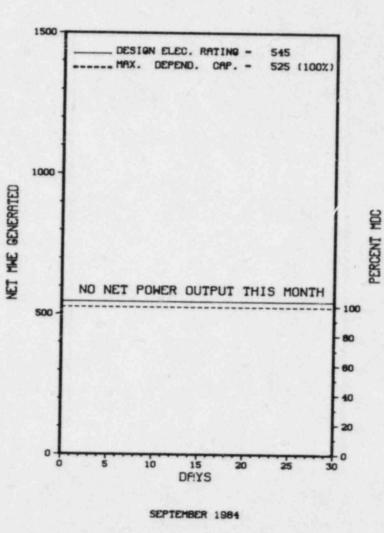
# REPORTS FROM LICENSEE

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

1.	Cocket: <u>50-263</u> 0	PERAT	ING 5	TATUS
2.	Reporting Period:	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: A. L. My	rabo (612)	295-5151	
4.	Licensed Thermal Power (MW	(t):		1670
5.				0.9 = 569
6.	Design Electrical Rating (	Net MWe):		545
7.	Maximum Dependable Capacit	y (Gross ML	le):	553
8.	Maximum Dependable Capacit	y (Net MWe)		525
9.	If Changes Occur Above Sin NONE			Reasons:
10.	Power Level To Which Restr			We):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 116,184.0
13.	Hours Reactor Critical		810.5	89,915.4
14.	Rx Roserve Shtdwn Hrs	. 0		940.7
15.	Hrs Generator On-Line		808.8	88,003.0
16.	Unit Reserve Shtdwn Hrs		. 0	
17.	Gross Therm Ener (MWH)	0	897,898	141,233,814
18.	Gross Elec Ener (MWH)	0	296,117	45, 185,053
19.	Net Elec Ener (MWH)	-1,232	270,633	43, 182, 939
20.	Unit Service Factor	. 0	12.3	75.7
21.	Unit Avail Factor	. 0	12.3	75.7
22.	Unit Cap Factor (MDC Net)	. 0	7.8	70.8
23.	Unit Cap Factor (DER Net)	. 0	7.6	68.2
24.	Unit Forced Outage Rate		. 0	5.3
25.	Forced Outage Hours	. 0		1,288.8
	Shutdowns Sched Over Next			
	FEB. 3, 1984 - REFUELING O			
£1.	If Currently Shutdown Estin	mated Start	up vate:	11/15/84



MONTICELLO



Report	Period St	EP 198	84		UN	ΙT	SHU	TDOW	NS /	RE	D	u c	T	I O	N	**************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Componen	Ŧ.			Cau	50	8	Corrective Action to Prevent Recurrence	-
2	02/03/84	s	720.0	с	4			ZZ	ZZZZZZ	(	CONT	INU	ATI	ON	OF	1984 REFUELING OUTAGE.	

~	20	1.11.1	MR	- A	~
××	××	××	××	××	×

Туре	Reason	Mathod	System & Component
F-Forced S-Sched	A-Equip Failure F-A B-Maint or Test G-O C-Revueling H-O D-Regulatory Restric E-Operator Training & License Examina	ther 3-Auto Scram tion 4-Continued 5-Reduced Load	Preparation of Data Entry Sheet

#### FACILITY DESCRIPTION

STATE.....MINNESOTA

COUNTY......WRIGHT

DIST AND DIRECTION FROM NEAREST POPULATION CTR...30 MI NW OF MINNEAPOLIS, MINN

TYPE OF REACTOR ..... BWR

DATE INITIAL CRITICALITY... DECEMBER 10, 1970

DATE ELEC ENER 1ST GENER ... MARCH 5, 1971

DATE COMMERCIAL OPERATE .... JUNE 30, 1971

CONDENSER COOLING METHOD...COOLING TOWER

CONDENSER CCOLING WATER .... MISSISSIPPI RIVER

ELECTRIC RELIABILITY

COUNCIL.....MID-CONTINENT AREA RELIABILITY COORDINATION AGREEMENT

# FACILITY DATA

## UTILITY & CONTRACTOR INFORMATION

UTILITY

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.....C. BROWN

LICENSE & DATE ISSUANCE.... DPR-22, JANUARY 9, 1981

PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY MINNEAPOLIS PUBLIC LIBRARY 300 NICOLLET MALL MINNEAPOLIS, MINNESOTA 55401

# INSPECTION SUMMARY

INSPECTION ON MAY 29-31, JULY 2-3, AND AUGUST 31, (84-13): ANNOUNCED SPECIAL SAFETY INSPECTION OF INSERVICE INSPECTION (ISI) ACTIVITIES, RECIRCULATION SYSTEM PIPING REPLACEMENT, AND LICENSEE ACTION ON IE BULLETINS AND A 10 CFR PART 21 REPORTS. THIS INSPECTION INVOLVED A TOTAL OF 56 INSPECTION-HOURS BY ONE NRC INSPECTOR INCLUDING 14 INSPECTOR-HOURS DURING OFF-SHIFTS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON JULY 8 - AUGUST 11, (84-15): A ROUTINE, UNANNOUNCED INSPECTION BY THE RESIDENT INSPECTOR OF PREVIOUS INSPECTION FINDINGS; DESIGN CHANGES AND MODIFICATIONS; ONSITE REVIEW COMMITTEE; AND LONG-TERM SHUTDOWN. THE INSPECTION INVOLVED A TOTAL OF 56 INSPECTOR-HOURS ONSITE BY ONE NRC INSPECTOR INCLUDING 12 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

INSPECTION CONDUCTED AUGUST 6-10, (84-18): INCLUDED A REVIEW OF SECURITY PLAN AND IMPLEMENTING PROCEDURES; MANAGEMENT EFFECTIVENESS; SECURITY ORGANIZATION; AUDITS, TESTING AND MAINTENANCE; PHYSICAL BARRIERS - PROTECTED AREAS; PHYSICAL BARRIERS -VITAL AREAS; CONPENSATORY MEASURES; ASSESSMENT AIDS; ACCESS CONTROL - PERSONNEL; ACCESS CONTROL -PACKAGES; ACCESS CONTROL -VEHICLES; DETECTION AIDS - PROTECTED AREAS; DETECTION AIDS - VITAL AREAS AND ALARM STATIONS. THE INSPECTION INVOLVED 37 INSPECTOR-HOURS OF DIRECT INSPECTION EFFORT BY ONE NRC INSPECTOR. THE INSPECTION BEGAN DURING THE DAY SHIFT; FIVE HOURS OF INSPECTION ACTIVITY WERE ACCOMPLISHED DURING OFF SHIFT PERIODS. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS IN THE AREAS EXAMINED DURING THIS INSPECTION.

PAGE 2-182

# Report Period SEP 1984

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

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×	MONTICELLO	×
********	*********	*********

# ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROPLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE PLANT IS SHUT DOWN FOR EXTENDED OUTAGE. THE MAJOR ACTIVITY DURING THE OUTAGE WILL BE REPLACEMENT OF THE RECIRCULATION SYSTEM PIPING.

LAST IE SITE INSPECTION DATE: OCTOBER 10-12, 1984

INSPECTION REPORT NO: 84-23

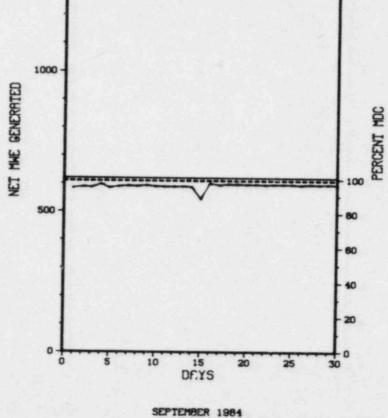
# REPORTS FROM LICENSEE

	NUMBER	DATE OF	DATE OF	SUBJECT
		EVENT	REPORT	
14				

NONE

1.	Docket: 50-220	OPERA	TINGS	TATUS
2.	Reporting Period:09/01/	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact:	W. ROMAN	(315) 349-2	422
4.	Licensed Thermal Power (M	Wt):		1850
5.	Nameplate Rating (Gross M	We):	755 X	0.85 = 642
6.	Design Electrical Rating	(Net MWe):		620
7.	Maximum Dependable Capaci	ty (Gross M	1We):	630
8.	Maximum Dependable Capaci	ty (Net MW	e):	610
9.	If Changes Occur Above Si NONE		eport, Give	Reasons:
10.	Power Level To Which Rest		Any (Net M	We):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 130,751.0
13.	Hours Reactor Critical	720.0	4,289.0	90,591.5
14.	Rx Reserve Shtdwn Hrs		0	1,204.2
15.	Hrs Generator On-Line	720.0	4,226.5	87,714.6
16.	Unit Reserve Shtdwn Hrs		0	20.2
17.	Gross Therm Ener (MWH)	1,322,794	7,386,876	145,481,233
18.	Gross Elec Ener (MWH)	438,954	2,460,438	48,092,220
19.	Net Elec Ener (MWH)	425,628	2,384,631	46,579,390
20.	Unit Service Factor	100.0	64.3	67.1
21.	Unit Avail Factor	100.0	64.3	67.1
	Unit Cap Factor (MDC Net)	96.9	59.5	58.4
22.	Unit Cap Factor (DER Net)	95.3	58.5	57.5
			. 0	16.7
23.	Unit Forced Cutage Rate	. 0		
23.	Unit Forced Cutage Rate Forced Dutage Hours	.0	. 0	12,940.9

DACE DATLY DOLED I FUEL (MILL) DIO
RAGE DAILY POWER LEVEL (MWe) PLOT
NINE MILE POINT 1
DESIGN ELEC. RATING - 620
DESIGN ELEC. RATING - 620 MAX. DEPEND. CAP 610 (100%)



R	eport	Period S	EP 19	84		UN	IT	SHU	TD	0 W	N	5 /	R	ED	u c	7.1	0	NS	************************************
-	No.	Date	Type	Hours	Reason	Method	LER	Number	Sys	stem	C	ompon	ent		-	Caus	se	Co	orrective Action to Prevent Recurrence
8	413	07/14/84	s	0.0	н	5								LOAD			101	N TO	0 66.3% CTP FOR CONTROL ROD SEQUENCE

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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)

PAGE 2-185

### 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 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

# FACILITY DATA

Report Period SEP 1984

# UTILITY & CONTRACTOR INFORMATION

UTILITY

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

LICENSING PROJ MANAGER.....R. HERMANN DOCKET NUMBER......50-220

LICENSE & DATE ISSUANCE.... DPR-63, DECEMBER 26, 1974

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

## INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

# ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

×	×	×	¥	×	×	×	×	×	×	×	×	×	×	×	¥	×	×	×	×	×	转	¥	×	×	×	¥	¥	×	×	×	×	ж	×	×	×
¥								N	I	N	E		M	I	L	E		P	0	I	N	T		1											×
×	×	×	×	×	×	×	×	×	×	×	×	×	¥	×	¥	×	×	×	×	×	×	×	¥	×	¥	×	×	×	×	×	×	×	×	×	×

OTHER ITEMS

NO INPUT PROVIDED.

MANACERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

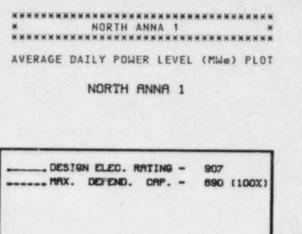
INSPECTION REPORT NO: NO INPUT PROVIDED.

# REPORTS FROM LICENSEE

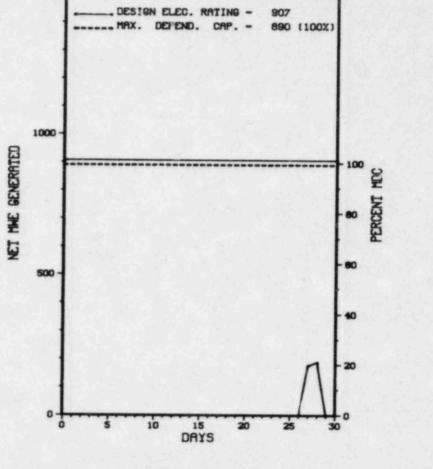
NUMBER	DATE OF REPORT	JBJECT	

NO INPUT PROVIDED.

1.	Docket: _50-338_ 0	PERA	TING S	TATUS						
2.	Reporting Period: _09/01/8	4 Outage	e + On-line	Hrs: 720.0						
3. Utility Contact: N. LEE (703) 894-5151 X2527										
4.	Licensed Thermal Power (MW	2775								
	Nameplate Kating (Gross MM		947							
6.	Design Electrical Rating (	Net MWe):		907						
7.	Maximum Dependable Capacit	y (Gross I	1We):	937						
8.	Maximum Dependable Capacit	y (Net MWa	2):	890						
9.	If Changes Occur Above Since Last Report, Give Reasons: NONE									
10.	Power Level To Which Restr		Any (Net M	le):						
11.	Reasons for Restrictions,	If Any:								
	NONE	MONTH	YEAR	CUMULATIVE						
12.	Report Period Hrs	720.0		55,416.0						
13.	Hours Reactor Critical	132.3	2,574.6							
14.	Rx Reserve Shtdwn Hrs		7.1	2,182.8						
15.	Hrs Generator On-Line	41.9	2,461.9							
16.	Unit Reserve Shtdwn Hrs	.0	.0	0						
17.	Gross Therm Ener (MWH)	37,740	6,634,476	91,690,253						
18.	Gross Elec Ener (MWH)	10,428	2,248,695	29,632,881						
19.	Net Elec Ener (MWH)	8,791	2,135,396	27,966,610						
20.	Unit Service Factor	5.8	37.4	63.4						
21.	Unit Avail Factor	5.8	37.4	63.4						
22.	Unit Cap Factor (MDC Net)	1.4		56.7						
23.	Unit Cap Factor (DER Net)	1.3	35.8	55.6						
24.	Unit Forced Outage Rate	54.8	24.6	13.5						
25.	Forced Outage Hours	50.9	803.1	5,371.3						
26.	Shutdowns Sched Over Next	6 Months (	Type, Date, D	uration):						
	FALL MAINTENANCE: 11/23/84	- 12/3/84	; 10 DAYS.							
27.	If Currently Shutdown Estin	mated Star	tup Date:	10/01/84						



1500 -



SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	ІТ ЅНИ	троы	NS / R	E D U C T I O N S *********************************	
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence	_
84-14	05/11/84	S	627.2	с	4				CONTINUATION OF UNIT 1 REFUELING OUTAGE. UNIT 1 ON LINE SEPTEMBER 27 AT 0315.	
84-15	09/28/84	F	43.7	А	3	84-014			REACTOR TRIP DUE TO HI-HI LEVEL IN 'B' STEAM GENERATOR.	
84-16	09/30/84	F	7.2	A	3	84-015			REACTOR TRIP DUE TO LO-LO LEVEL IN STEAM GENERATOR. ENDED THIS MONTH WITH UNIT 1 IN MODE 1.	

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)

## FACILITY DESCRIPTION

LOCATION STATEVIRGINIA
COUNTYLOUISA
DIST AND DIRECTION FROM NEAREST POPULATION CTR40 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 OPERATEJUNE 6, 1978
CONDENSER COOLING METHOD ONCE THRU
CONDENSER COOLING WATERLAKE ANNA
ELECTRIC RELIABILITY COUNCILSOUTHEASTERN ELECTRIC RELIABILITY COUNCIL

# FACILITY DATA

### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE......VIRGINIA ELECTRIC & 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. JOHNSON

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 & LOUISA COUNTY COURTHOUSE, LOUISA, VA 23093

## INSPECTION SUMMARY

+ INSPECTION AUGUST 4-10 (84-32): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 21 INSPECTOR-HOURS (6 INSPECTOR-HOURS ON THE BACKSHIFT) ON SITE IN THE AREAS OF EXTERNAL EXPOSURE CONTROL AND PERSONAL DOSIMETRY, SURVEYS, MONITORING, AND CONTROL OF RADIOACTIVE MATERIAL, SOLID WASTE, GASEOUS WASTE SYSTEM, LIQUIDS AND LIQUID WASTES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

PAGE 2-190

# Report Period SEP 1984

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

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×	NOR	TH	ANNA 1	×
*********	***	***	******	*********

# OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ NORMAL OPERATION.

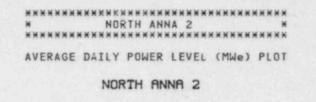
LAST IE SITE INSPECTION DATE: AUGUST 6-10, 1984 +

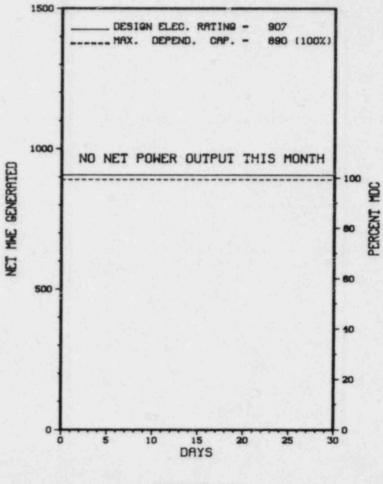
INSPECTION REPORT NO: 50-338/84-32 +

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-006	08/01/	08/30/84	COATING MATERIALS SELECTED WERE NOT KNOWN TO BE QUALIFIED, SITE PROCEDURES HAVE BEEN STRENGTHENED.
84-007	08/02.04	08/30/84	CYCLE 4 FUEL ASSEMBLIES WERE EXAMINED FOR POSSIBLE LEAKAGE, ALL ASSEMBLIES REUSED IN CYCLE 5 UNDERWENT A PRECAUTIONARY CLEANING PROCESS.

1.	Docket: <u>50-339</u> 0	PERAT	TING S	TATUS						
2.	Reporting Period: _09/01/8	4 Outage	e + On-line	Hrs: 720.0						
3.	Utility Contact: JOAN N.	LEE (703)	894-5151 X2	527						
4.	Licensed Thermal Power (MW		2775							
5.	Nameplate Rating (Gross MW		947							
6.	Design Electrical Rating (	Net MWa):		907						
7.	Maximum Dependable Capacit	y (Gross M	1We):	939						
8.	Maximum Dependable Capacit	y (Net MWe	2):	890						
9.	If Changes Occur Abova Since Last Report, Give Reasons: NONE									
10.	Power Level To Which Restr	icted, If	Any (Net Mk	le):						
	Reasons for Restrictions,									
	NONE									
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIV						
13.	Hours Reactor Critical	. 0	4,814.3	24,461.3						
14.	Rx Reserve Shtdwn Hrs	. 0	14.6	2,254.1						
15.	Hrs Generator On-Line	. 0	4,714.5	23,992.						
16.	Unit Reserve Shtdwn Hrs									
17.	Gross Therm Ener (MWH)	0	12,215,461	62,636,49						
18.	Gross Elec Ener (MWH)	0	4,026,505	20,762,87						
19.	Net Elec Ener (MWH)	0	3,812,318	19,664,40						
20	Unit Service Factor		71.7	72.						
		. 0	71.7	72.						
	Unit Avail Factor									
21.	Unit Avail Factor Unit Cap Factor (MDC Net)		65.1	66.0						
21.		. 0								
21. 22. 23.	Unit Cap Factor (MDC Net)	.0	63.9							
21. 22. 23. 24.	Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	.0 .0 .0	<u>63.9</u> <u>3.1</u>	<u> </u>						
21. 22. 23. 24. 25.	Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Outage Rate	.0 .0 .0	<u>63.9</u> <u>3.1</u> <u>148.6</u>	<u>65.</u> <u>13.</u> <u>3,596.</u>						





SEPTEMBER 1984

Repor	t Period S	EP 19	84		UN	ІТ ЅНИ	TDOW	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-34	08/02/84	S	720.0	с	4	LER-006	RC	FUELXX	ON AUGUST 2, 1984 AT 1834 UNIT 2 COMMENCED RAMPING DOWN DUE TO UNQUALIFIED PROTECTIVE COATING ON CONTAINMENT VENTILATION DUCTWORK. BY 2309 ON AUGUST 2, 1984 UNIT 2 WAS OFF LINE. UNIT 2 REMAINED OFF LINE FOR SCHEDULED REFUELING OUTAGE. UNIT 2 REMAINED OFF LINE FOR THE MONTH OF SEPTEMBER FOR REFUELING OUTAGE. ENDED THIS MONTH WITH UNIT 2 IN MODE 5.

Туре	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)

## 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...GNCE THRU CONDENSER COOLING WATER...LAKE ANNA ELECTRIC RELIABILITY COUNCIL.......SOUTHEASTERN ELECTRIC

RELIABILITY COUNCIL

### FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....VIRGINIA ELECTRIC & 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. JOHNSON

LICENSE & DATE ISSUANCE....NPF-7, AUGUST 21, 1980

PUBLIC DOCUMENT ROOM.....ALDERMAN LIBRARY/MANUSCRIPTS DEPT. UNIV. OF VIRGINIA/CHARLOTTESVILLE VA 22901 & LOUISA COUNTY COURTHOUSE, LOUISA, VA 23093 IN SPECTION STATUS

## INSPECTION SUMMARY

+ INSPECTION AUGUST 6-10 (84-32): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 21 INSPECTOR-HOURS (6 INSPECTOR-HOURS ON THE BACKSHIFT) ON SITE IN THE AREAS OF EXTERNAL EXPOSURE CONTROL AND PERSONAL DOSIMETRY, SURVEYS, MONITORING, AND CONTROL OF RADIGACTIVE MATERIAL, SOLID WASTE, GASEOUS WASTE SYSTEM, LIQUIDS AND LIQUID WASTES. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

PAGE 2-194

Report Period SEP 1984

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*	NORTH ANNA	*
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# OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

REFUELING.

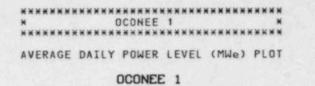
LAST IE SITE INSPECTION DATE: AUGUST 6-10, 1984 +

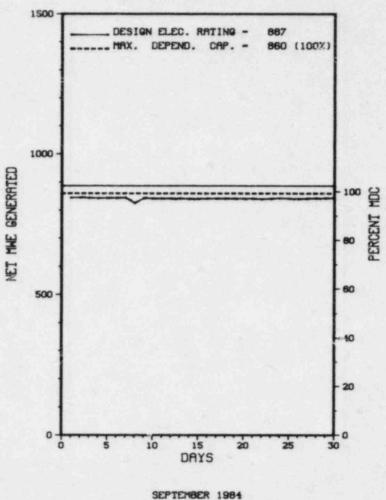
INSPECTION REPORT NO: 50-339/84-32 +

# REPORTS FROM LICENSEE

********	===============================			 	 
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT		
NONE.				 	 

1.	Docket: 50-269 0	PERAT	ING S	TATUS	
2.	Reporting Period: butage + On-line Hrs: 720.0				
3.	Utility Contact:A. REAVIS (704) 373-7567				
4.	Licensed Thermal Power (MWt):			2568	
	Nameplate Rating (Gross MWe): 1038 X 0.9 = 934				
6.	Design Electrical Rating (Net MWe):			887	
	Maximum Dependable Capacity (Gross MWe):_				
8.	Maximum Dependable Capacity (Net MWe): _			860	
9.	If Changes Occur Above Since Last Report, Give Reasons: NONE				
	Power Level To Which Restricted, If Any (Net MWe): Reasons for Restrictions, If Any:				
	NONE				
12.	Report Period Krs	MONTH 720.0		CUMULATIVE 98,280.0	
13.	Hours Reactor Critical	720.0	6,550.1	71,091.1	
14.	Rx Reserve Shtdwn Hrs	. 0		. 0	
15.	Hrs Generator On-Line	720.0	6,542.0	67,931.8	
16.	Unit Reserve Shtdwn Hrs	0	0	. 0	
17.	Gross Therm Ener (MWH)	1,853,273	16,773,666	163,071,698	
18.	Gross Elec Ener (MWH)	635,810	5,854,300	56,722,530	
19.	Net Elec Ener (MWH)	606,279	5,596,927	53,762,478	
20.	Unit Service Factor	100.0	99.5	69.1	
21.	Unit Avail Factor	100.0	99.5	69.1	
22.	Unit Cap Factor (MDC Net)	97.9	99.0	63.5	
23.	Unit Cap Factor (DER Net)	94.9	96.0	61.7	
4.	Unit Forced Outage Rate			16.1	
25.	Forced Outage Hours		33.0	12,080.6	
26.	Shutdowns Sched Over Next 6 Months (Type,Date,Duration):				
	REFUELING - OCTOBER 5, 1984 - 7 WEEKS.				
27.	If Currently Shutdown Estimated Startup Date:				





Item calculated with a Weighted Average

Report	Period S	EP 19	84		UN	IT	SHU	TDOW	N	s /	R	EI	DU	с	T	1 0	N	s	********	0	CONEE	1		1	×
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Cor	mpone	int	_		C	aus	5e_	8 (	Corr	ective Act	tion t	o Pres	vent	Recurr	ence	_
15-P	09/08/84	s	0.0	В	5			cc	v	ALVEX	(	TUP	RBI	NE	CON	NTR	OL	& 5	TOP VALVE	MOVEM	ENT P	r's.			
16-P	09/22/84	F	0.0	A	5			нн	P	UMPXX	(	HE	ATER	R D	RAI	IN	PU	MP 0	IL SYSTEM	REPAI	RS.				

\*\*\*\*\*\*\*\*\*\*\* OCONEE 1 OPERATED ROUTINELY IN SEPTEMBER WITH NO OUTAGES REPORTED. \* SUMMARY \*

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-Manua' 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)

#### **张光荣张光光光光光光光光光光光光光光光光光光光光光光光光光光光光**光光 OCONEE 1 \*\*\*\*\*\*

#### FACILITY DESCRIPTION

LOCATION

DIST AND DIRECTION FROM NEAREST POPULATION CTR. ... 30 MI W OF GREENVILLE, SC

TYPE OF REACTOR ..... PUR

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

... SOUTHEASTERN ELECTRIC COUNCIL RELIABILITY COUNCIL

## FACILITY DATA

## UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE ..... DUKE POWER

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

STATUS

IE RESIDENT INSPECTOR.....J. BRYANT

LICENSING PROJ MANAGER.....H. NICOLARAS 

LICENSE & DATE ISSUANCE..., DPR-38, FEBRUARY 6, 1973

PUBLIC DOCUMENT ROOM...... OCONEE COUNTY LIBRARY 501 W. SOUTH BROAD ST. WALHALLA, SOUTH CAROLINA 29691 INSPECTION

#### INSPECTION SUMMARY

+ INSPECTION AUGUST 20-24 (84-20): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 14 INSPECTOR-HOURS ON SITE IN THE AREAS OF HEALTH PHYSICS AND CHEMISTRY ORGANIZATION AND MANAGEMENT CONTROLS, TRAINING AND QUALIFICATIONS, EXTERNAL EXPOSURE, INTERNAL EXPOSURE, CONTROL OF RADICACTIVE MATERIAL AND TRANSPORTATION. TWO VIOLATIONS WERE IDENTIFIED - FAILURE TO ENSURE THAT A RADIOACTIVE MATERIAL SHIPMENT COMPLIED WITH DOT SHIPPING REQUIREMENTS, AND TWO EXAMPLES OF FAILURE TO PROPERLY LABEL CONTAINERS OF RADIOACTIVE MATERIAL.

INSPECTION AUGUST 20-24 (84-21): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 22 INSPECTOR-HOURS IN THE AREA OF EMERGENCY PREPAREDNESS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 11 - AUGUST 10 (84-22): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED 76 (RESIDENT) INSPECTOR-HOURS ON SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, STATION MODIFICATIONS, AND PREVIOUSLY IDENTIFIED ITEMS. OF THE FIVE AREAS INSPECTED NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

PAGE 2-198

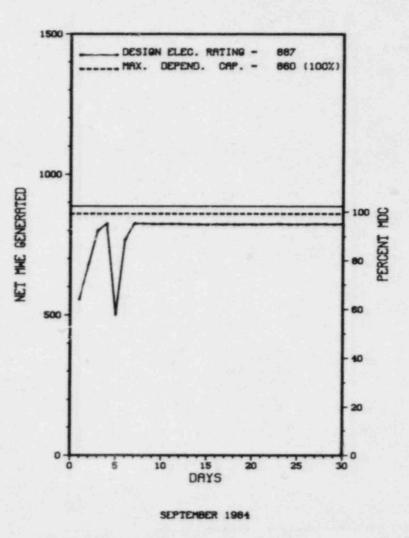
\*\*\*\* \* OCONEE 1 \* \*

# 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: JULY 11 - AUGUST 10, 1984 +
INSPECTION REPORT NO: 50-269/84-22 +
REPORTS FROM LICENSEE
NUMBER DATE OF DATE OF SUBJECT EVENT REPORT
NONE.

	eporting Period: <u>09/01/8</u> tility Contact: <u>J. A. RE</u>			
	icensed Thermal Power (MM			
	ameplate Rating (Gross MM			0.9 = 934
	esign Electrical Rating (			
	aximum Dependable Capacit			
	aximum Dependable Capacit			
	f Changes Occur Above Sir			
	ONE	ICH LAST KE	port, orve	Kessons.
	ower Level To Which Restr	icted. If	Any (Net Ma	(e):
	easons for Restrictions,			
	ONE			
		MONTH	YEAR	CUMULATIVE
2. R	eport Period Hrs		6,575.0	
3. H	lours Reactor Critical	720.0	6,575.0	63,888.8
4. R	x Reserve Shtdwn Hrs		. 0	0
15. H	Irs Generator On-Line	720.0	6,575.0	62,735.5
16. U	Init Reserve Shtdwn Hrs			0
17. 0	ross Therm Ener (MWH)	1,790,166	16,773,663	149,264,329
18. G	iross Elec Ener (Nulli)	601,320	5,758,650	50,863,506
19. N	let Elec Ener (MWH)	573,566	5,517,761	48,329,330
20. U	Init Service Factor	100.0	100.0	71.1
1. U	Init Avail Factor	100.0	100.0	71,1
22. U	Init Cap Factor (MDC Net)	92.6	97.6	<u>63.5</u> *
23. 0	Init Cap Factor (DER Net)	89.8	94.6	<u>61.9</u> *
4. L	Init Forced Outage Rate		. 0	15.0
	Forced Outage Hours			
		/ Marilla	Tuno Date	Juration):
	Shutdowns Sched Over Next	6 Months	( i ype i bace i i	our a cronz

		**	×	×	×		×	×	×	×	×	×	H	×	**	•	*	×	×	**			*	×	×	×	×
*																											×
****	* *	**	×	×	×	* *	*	*	×	×	×	×	×	×	**	6.34	×	×	×	<b>K X</b>	•	*	×	×	×	×	×
AVER	AG	E	D	A	I	LY	1	P	0	W	E	R		L	E١	/E	L		(1	ML	10	2)		P	L	0	T
							0	20	20	21	NI	E	E		2												



\* Item calculated with a Weighted Average

\*\*\*\*\*\*\*\* Report Period SEP 1984 UNIT SHUTDOWNS / REDUCTIONS × OCONEE 2 \*\*\*\*\*\*\*\*\*\* Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence No. 13-P 09/01/84 F 0.4 A 5 CH PUMPXX MAIN FEEDWATER PUMP REPAIRS. 14-P 09/01/84 5 F 0.0 5 ZZ ZZZZZZ ECONOMIC DISPATCH REDUCTION. 15-P 09/05/84 F 0.0 A 5 HH PIPEXX REPAIR HEATER BLEED LINE.

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)

#### 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

#### FACILITY DATA

### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....DUKE POWER

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

LICENSE & DATE ISSUANCE.... DPR-47, OCTOBER 6, 1973

PUBLIC DOCUMENT ROOM.....OCONEE COUNTY LIBRARY 501 W. SOUTH BROAD ST. WALHALLA, SOUTH CAROLINA 29691

#### INSPECTION SUMMARY

+ INSPECTION AUGUST 20-24 (84-19): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 13 INSPECTOR-HOURS ON SITE IN THE AREAS OF HEALTH PHYSICS AND CHEMISTRY ORGANIZATION AND MANAGEMENT CONTROLS, TRAINING AND QUALIFICATIONS, EXTERNAL EXPOSURE, INTERNAL EXPOSURE, CONTROL OF RADIOACTIVE MATERIAL AND TRANSPORTATION. TWO VIOLATIONS WERE IDENTIFIED - FAILURE TO ENSURE THAT A RADIOACTIVE MATERIAL SHIPMENT COMPLIED WITH DOT SHIPPING REQUIREMENTS, AND TWO EXAMPLES OF FAILURE TO PROPERLY LABEL CONTAINERS OF RADIOACTIVE MATERIAL.

STATUS

INSPECTION AUGUST 20-24 (84-20): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 22 INSPECTOR-HOURS IN THE AREA OF EMERGENCY PREPAREDNESS. NO VIOLATIONS OR DEVIATIC+3 WERE IDENTIFIED.

INSPECTION

INSPECTION JULY 11 - AUGUST 10 (84-21): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED 76 (RESIDENT) INSPECTOR-HOURS ON SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, STATION MODIFICATIONS, AND PREVIOUSLY IDENTIFIED ITEMS. OF THE FIVE AREAS INSPECTED NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

PAGE 2-202

******	********	**************
×	OCONEE	E 2 *
*******	********	*************

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

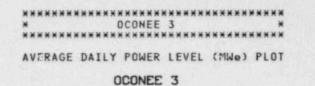
POWER OPERATIONS.

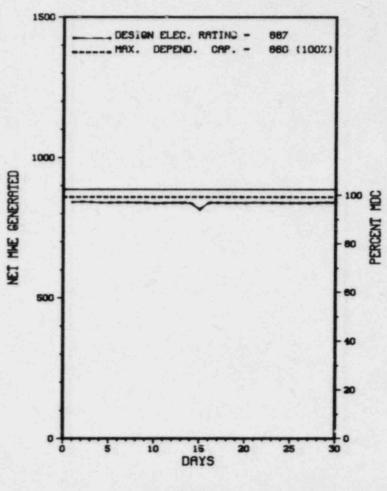
LAST IE SITE INSPECTION DATE: JULY 11 - AUGUST 10, 1984 +

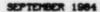
INSPECTION REPORT NO: 50-270/84-21 +

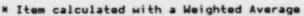
# REPORTS FROM LICENSEE

1.	Docket: _50-287	OPERAT	TING S	TATUS						
2.	Reporting Period:	84_ Outage	e + On-line	Hrs: 720.0						
3.	Utility Contact: J. A. R	EAVIS (704)	373-7567							
4.	Licensed Thermal Power (M	Mf):		2568						
	Nameplate Rating (Gross MWe): 1038 X 0.9 = 934									
	Design Electrical Rating			887						
7.	Maximum Dependable Capaci	ty (Gross M	1We):	899						
8.	Maximum Dependable Capaci	ty (Net MWa	2):	860						
9.	If Changes Occur Above Si	nce Last Re	eport, Give	Reasons:						
	NONE									
10.	Power Level To Which Rest	ricted, If	Any (Net ML	le):						
11.	Reasons for Restrictions,	If Any:								
	NONE									
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 85,847.0						
13.	Hours Reactor Critical	720.0	4,626.6	61,336.5						
14.	Rx Reserve Shtdwn Hrs	. 0	.0	. 0						
15.	Hrs Generator On-Line	720.0	4,587.4	60,170.7						
16.	Unit Reserve Shtdwn Hrs	. 0	.0	. 0						
17.	Gross Therm Ener (MWH)	1,848,705	11,485,108	146,977,671						
18.	Gross Elec Ener (MWH)	631,820	3,956,390	50,770,984						
19.	Net Elec Ener (MWH)	604,146	3,775,477	48,342,595						
20.	Unit Service Factor	100.0	69.8	70.1						
21.	Unit Avail Factor	100.0	69.8	70.1						
22.	Unit Cap Factor (MDC Net)	97.6	66.8	65.3*						
23.	Unit Cap Factor (DER Net)	94.6	64.7	63.6						
24.	Unit Forced Outage Rate	0	1.8	14.3						
25.	Forced Outage Hours			10,226.3						
26.	Shutdowns Sched Over Next	6 Months	Type, Date, I	Duration):						









Repor	t Period S	EP 19	84		UN	ΙT	SHU	TDOW	NS /	R	EDU	ст	1 0	N S	************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Compone	ent		Cau	158	& Co	prrective Action to Prevent Recurrence	-
13-P	09/15/84	s	0.0	В	5			cc	VALVE	x	CONTRO	L &	STO	P VA	ALVE MOVEMENT PT'S.	

\*\*\*\*\*\*\*\*\*\* OCONEE 3 OPERATED ROUTINELY IN SEPTEMBER WITH NO OUTAGES REPORTED. \* SUMMARY \* \*\*\*\*\*\*

Ivpe	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)

1.)

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#### FACILITY DESCRIPTION

- LOCATION
- STATE......SOUTH CAROLINA

COUNTY.....OCONLE

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

# FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....DUKE POWER

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

LICENSE & DATE ISSUANCE.... DPR-55, JULY 19, 1974

PUBLIC DOCUMENT ROOM.....OCONEE COUNTY LIBRARY 501 W. SOUTH BROAD ST. WALHALLA, SOUTH CAROLINA 29691 IN SPECTION STATUS

#### INSPECTION SUMMARY

+ INSPECTION AUGUST 20-24 (84-21): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 13 INSPECTOR-HOURS ON SITE IN THE AREAS OF HEALTH PHYSICS AND CHEMISTRY ORGANIZATION AND MANAGEMENT CONTROLS, TRAINING AND QUALIFICATIONS, EXTERNAL EXPOSURE, INTERNAL EXPOSURE, CONTROL OF RADIOACTIVE MATERIAL AND TRANSPORTATION. TWO VIOLATIONS WERE IDENTIFIED - FAILURE TO ENSURE THAT A RADIOACTIVE MATERIAL SHIPMENT COMPLIED WITH DOT SHIPPING REQUIREMENTS, AND TWO EXAMPLES OF FAILURE TO PROPERLY LABEL CONTAINERS OF RADIOACTIVE MATERIAL.

INSPECTION AUGUST 20-24 (84-22): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 22 INSPECTOR-HOURS IN THE AREA OF EMERGENCY PREPAREDNESS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION JULY 11 - AUGUST 10 (84-23): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED 75 (RESIDENT) INSPECTOR-HOURS ON SITE IN THE AREAS OF OPERATIONS, SURVEILLANCE, MAINTENANCE, STATION MGDIFICATIONS, AND PREVIOUSLY IDENTIFIED ITEMS. OF THE FIVE AREAS INSPECTED NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

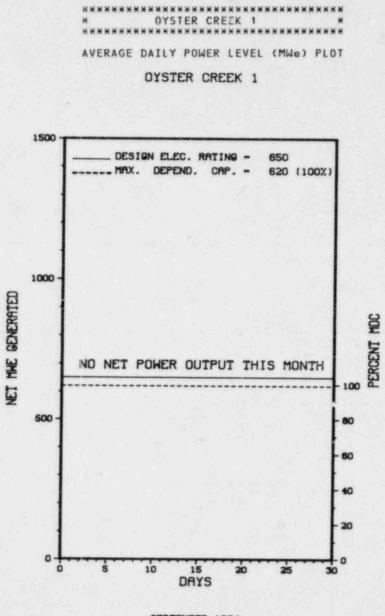
PAGE 2-206

Report Period SEP 1984

# 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: JULY 11 - AUGUST 10, 1984 + INSPECTION REPORT NO: 50-287/84-23 + REPORTS FROM LICENSEE DATE OF DATE OF NUMBER SUBJECT EVENT REPORT NONE.

1.	Docket: 50-219 0	PERAT	INGS	TATUS
2.	Reporting Period: _09/01/8	4_ Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: JOSEPH R	MOLNAR (6	09) 971-46	99
4.	Licensed Thermal Power (MW	t):		1930
5.	Nameplate Rating (Gross MW	e):	722 X .	9 = 650
6.	Design Electrical Rating (	Net MWe):		650
7.	Maximum Dependable Capacit	v (Gross MW	e):	650
8.	Maximum Dependable Capacit	y (Net MWe)	:	620
9.	If Changes Occur Above Sin NONE	ce last Rep	ort, Give	Reasons:
11.	Power Level To Which Restr Reasons for Restrictions, NONE			
	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 129,503.0
13.	Hours Reactor Critical	. 0	696.0	85,319.9
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	468.2
15.	Hrs Generator On-Line	. 0	. 0	82,693.8
16.	Unit Reserve Shtdwn Hrs	. 0	. 0	. 0
17.	Gross Therm Ener (MWH)	0	0	136,301,260
18.	Gross Elec Ener (MWH)	0	0	46,056,905
19.	Net Elec Ener (MWH)	-4,906	-20,783	44,264,900
20.	Unit Service Factor	. 0		63.9
21.	Unit Avail Factor	. 0		63.9
22.	Unit Cap Factor (MDC Net)	. 0		<u>55.1</u> *
23.	Unit Cap Factor (DER Net)	. 0	. 0	52.6
24.	Unit Forced Outage Rate	. 0		11.6
25.	Forced Outage Hours	. 0	. 0	8,916.8
26.	Shutdowns Sched Over Next	6 Months (T	ype,Date,D	)uration):
27	If Currently Shutdown Estin	mated Start	un Data:	10/19/84





\* Item calculated with a Weighted Average

Report	Period SE	EP 19	84		UN	IT	sни	троы	NS / R	ED	UCT	I O	NS	×	OY	STER CREEK	***************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component		Cau	58	& Cor	rective	Action	to Prevent	Recurrence	-
31	02/11/83	S	720.0	с	4			RC	FUELXX	REFU	ELING	AND	MAIN	TENANCE	OUTAGE	CONTINUES.		

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

#### FACILITY DESCRIPTION

LOCATION STATE.....DEW 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 MATER....BARNEGAT BAY ELECTRIC RELIABILITY COUNCIL......MID-ATLANTIC AREA COUNCIL

#### FACILITY DATA

#### 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.....C. COWG\_LL

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 INSFECTION 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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Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

\*\*\*\*\*\* OYSTER CREEK 1 × \*

# OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

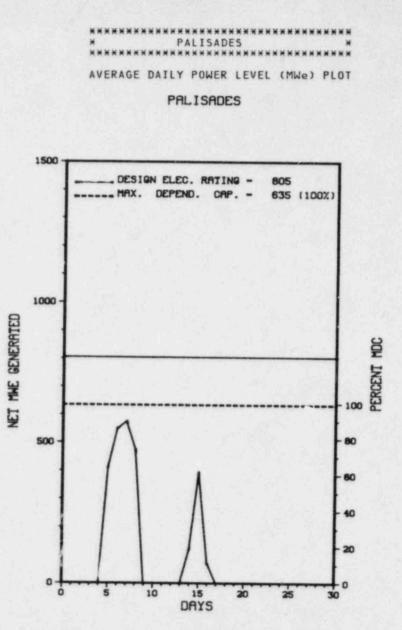
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

# REPORTS FROM LICENSEE

NUMBER	DATE OF	DATE OF	SUBJECT	
NO INPUT	PROVIDED.			

١,	Docket: _50-255_ 0	PERAT	INGS	TATUS
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact:A. F. DI	ENES (616)	764-8913	
4.	Licensed Thermal Power (MW	lt):		2530
5.	Nameplate Rating (Gross MW			
6.	Design Electrical Rating (	Net MWe):		805
7.	Maximum Dependable Capacit	y (Gross MW	le):	675
8.	Maximum Dependable Capacit	y (Net MWe)		635
9.	If Changes Occur Above Sin	ce Last Rep	ort, Give	Peasons:
	NONE			
0.	Power Level To Which Restr	icted, If A	ny (Net M	de):
1.	Reasons for Restrictions,	If Any:		
	NONE			
2.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	
3.	Hours Reactor Critical	204.4	567.9	59,827.6
4.	Rx Reserve Shtdwn Hrs		. 0	. 0
5.	Hrs Generator On-Line	142.4	368.4	56,646.9
6.	Unit Reserve Shtdwn Hrs			. 0
7.	Gross Therm Ener (MWH)	222,792	399,312	115,759,536
8.	Gross Elec Ener (MWH)	69,300	118,080	35,868,520
9.	Net Elec Ener (MWH)	62,377	101,747	33,729,761
0.	Unit Service Factor	19.8	5.6	50.5
۱.	Unit Avail Factor	19.8	5.6	50.5
2.	Unit Cap Factor (MDC Net)	13.6	2.4	47.4
3.	Unit Cap Factor (DER Net)	10.8	1.9	37.4
	Unit Forced Outage Rate	80.2	75.5	32.9
4.	Farrad Dutage Vaure	577.6	1,132.3	13,657.9
	Forced Outage Hours			



SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	IT	SHU	т	DO	W	N S	,	R	E	DI		т	I	0	N	s	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	=	Syste	m	Comp	ognen	it	-		_	Ça	us	e .	8 (	or	rective Action to Prevent Recurrence
4	08/10/84	F	90.6	A	4	84-10	6							FA	ILE	ED	WE	LD	0	N F	rcs	INSTRUMENT LINE.
5	09/08/84	F	132.7	В	1																	P FAILED TECHNICAL SPECIFICATION (PROBLEMS WITH CONTROL VALVE).
6	09/16/84	F	354.3	A	1									SE	ALS	5 F	AI	LE	D	ON	PR	IMARY COOLANT PUMP, P-50C.

\*\*\*\*\*\*\* PALISADES EXPERIENCED 3 SHUTDOWNS IN SEPTEMBER AS DESCRIBED ABOVE. \* SUMMARY \*

Туре	Reason		Method	System & Component
F-Forced S-Sched	A-Equip Failure B-Maint or Test C-Refueling D-Regulatory Res E-Operator Train & License Exam	H-Other triction ing	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)

#### \*\*\*\*\* PALISADES \*\*\*\*\*

## FACILITY DESCRIPTION

LOCATION

\*

STATE.....MICHIGAN

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

CUNDENSER COOLING WATER....LAKE MICHIGAN

ELECTRIC RELIABILITY

**RELIABILITY COORDINATION** AGREEMENT

FACILIT DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

LICENSEE......CONSUMERS POWER

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......KALAMAZOO PUBLIC LIBRARY **315 SOUTH ROSE STREET** REFERENCE DEPARTMENT KALAMAZOO, MICHIGAN 49007 INSPECTION STATUS

## INSPECTION SUMMARY

INSPECTION ON MARCH 22-23 AND APRIL 27, (84-06): NONROUTINE, ANNOUNCED INSPECTION OF THE CIRCUMSTANCES SURROUNDING THE UNPLANNED EXPOSURE OF A DIVER DURING UNDERWATER MAINTENANCE OF THE REFUELING CAVITY TILT MACHINE. ALSO, THE STATUS OF LICENSEE ACTIONS TAKEN TO SATISFY THE REQUIREMENTS OF NUREG-0737 ITEM II.B.3 WAS REVIEWED. THE INSPECTION INVOLVED 36 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS. OF THE TWO AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED IN ONE AREA. FOUR VIOLATIONS WERE IDENTIFIED IN THE REMAINING AREAS (DOSE TO A WORKER IN EXCESS OF 10 CFR 20.101 LIMITS - SECTION 6, FAILURE TO PROVIDE PROPER MONITORING AND CONTROLS FOR HIGH RADIATION AREAS ACCESS - SECTION 4, FAILURE TO FOLLOW RADIATION PROTECTION PROCEDURES - SECTION 5, AND FAILURE TO MAINTAIN REACORDS OF SURVEYS - SECTION 4).

INSPECTION ON JULY 16 THROUGH AUGUST 3, (84-14): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTOR OF OPERATIONAL SAFETY; MAINTENANCE; SURVEILLANCE; REACTOR PHYSICS; AND INDEPENDENT INSPECTION AREAS. THE INSPECTION INVOLVED A TOTAL OF 123 INSPECTOR-HOURS ONSITE BY ONE NRC INSPECTOR INCLUDING 33 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. OF THE FIVE AREAS INSPECTED, NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED IN THREE AREAS. ONE ITEM OF NONCOMPLIANCE (FAILURE TO FOLLOW PROCEDURE; FAILURE TO FOLLOW EMERGENCY PLAN) WAS IDENTIFIED IN EACH OF THE REMAINING TWO AREAS.

INSPECTION ON JULY 31, (84-15): ROUTINE ANNOUNCED SAFETY INSPECTION TO REVIEW DATA ACCUMULATED FROM QUARTERLY SURVEILLANCE INSPECTION OF SIRW TANK SUPPORT STRUCTURE. THE INSPECTION INVOLVED & TOTAL OF 9 HOURS ON SITE BY ONE NRC INSPECTOR. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

INSPECTION CONDUCTED AUGUST 15-17, (84-17): INCLUDED A REVIEW OF PREVIOUS INSPECTION FINDINGS AS WELL AS MANAGEMENT EFFECTIVENESS IN THE AREA OF COMMUNICATIONS. THE LICENSEE WAS FOUND TO BE IN COMPLIANCE WITH NRC REQUIREMENTS IN THE AREAS EXAMINED DURING THIS INSPECTION. ALL PREVIOUS INSPECTION FINDINGS HAVE BEEN CLOSED.

INSPECTION ON AUGUST 20-22, (84-18): ROUTINE, ANNOUNCED INSPECTION OF THE FOLLOWING AREAS: PALISADES NUCLEAR GENERATING PLANT EMERGENCY PREPAREDNESS EXERCISE INVOLVING OBSERVATIONS OF KEY FUNCTIONS AND LOCATIONS DURING THE EXERCISE BY SEVEN NRC REPRESENTATIVES. THE INSPECTION INVOLVED 144 INSPECTOR-HOURS ONSITE BY THREE NRC INSPECTORS AND FOUR CONSULTANTS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

10 CFR 20.101(B) STATES IN PART THAT DURING ANY CALENDAR QUARTER TOTAL OCCUPATIONAL DOSE TO THE WHOLE BODY OF AN INDIVIDUAL SHALL NOT EXCEED 3 REMS. "DOSE TO THE WHOLE BODY" IS DEEMED TO INCLUDE ANY DOSE TO THE WHOLE BODY, GONADS, ACTIVE BLOOD-FORMING ORGANS, HEAD AND TRUNK, OR LENS OF EYE. CONTRARY TO THE ABOVE, AN INDIVIDUAL WHO WORKED AS A DIVER IN THE REFUELING CAVITY DURING THE FIRST CALENDAR QUARTER IN 1984 RECEIVED A DOSE OF ABOUT 4.5 REMS TO THE RIGHT LEG ABOVE THE KNEE, A PORTION OF THE BODY COVERED BY THE WHOLE BODY DOSE LIMIT OF 3 REMS PER QUARTER. (8406 3)

TECHNICAL SPECIFICATION 6.12 REQUIRES THAT ANY INDIVIDUAL ENTERING A HIGH RADIATION AREA BE PROVIDED WITH A DOSE RATE MONITORING DEVICE, OR BE PROVIDED WITH A DOSE RATE INTEGRATING DEVICE WHICH ALARMS AT A PRESET DOSE (SURVEYED AREAS ONLY), OR BE ACCOMPANIED BY AN INDIVIDUAL QUALIFIED IN RADIATION PROTECTION PROCEDURES WHO IS EQUIPPED WITH A DOSE RATE MONITORING DEVICE, WHO PROVIDES POSITIVE CONTROL OVER ACTIVITIES, AND WHO PERFORMS PERIODIC SURVEYS AS SPECIFIED BY THE RADIATION WORK PERMIT. CONTRARY TO THE ABOVE, ON MARCH 18, 1984, A DIVER MADE THREE ENTRIES INTO THE REFUELING CAVITY TILT MACHINE AREA, A HIGH RADIATION AREA, WITHOUT BEING PROVIDED WITH A DOSE RATE MONITORING DEVICE OR A DOSE RATE INTEGRATING DEVICE OR WITHOUT BEING ACCOMPANIED BY AN INDIVIDUAL QUALIFIED IN RADIATION PROTECTION WHO WAS EQUIPPED WITH A DOSE RATE MONITORING DEVICE AND WHO PROVIDED THE REQUIRED CONTROLS AND MONITORING. TECHNICAL SPECIFICATION 6.11 STATES THAT PROCEDURES FOR PERSONAL RADIATION PROTECTION SHALL BE PREPARED CONSISTENT WITH 10 CFR PART 20 AND SHALL BE APPROVED, MAINTAINED, AND ADHERED TO FOR ALL OPERATIONS INVOLVING PERSONAL RADIATION EXPOSURE. (1) PROCEDURE NO. 7.02, "ALARA PROGRAM," REQUIRES THAT AN ALARA REVIEW BE CONDUCTED IF, AMONG OTHER THINGS, A POTENTIAL EXISTS FOR INDIVIDUAL EXPOSURE TO GENERAL AREA RADIATION LEVELS GREATER THAN 1000 MREMS/HOUR; AN . DIVIDUAL IS EXPECTED TO EXCEED 1500 MREMS WHOLE BODY DOSE FOR A GIVEN TASK IN A CALENDAR YEAR; OR LOOSE SURFACE CONTAMINATION EXCEEDS 100,000 DPM/100 CM2. CONTRARY TO THE ABOVE, NO ALARA REVIEW WAS CONDUCTED OF THE REFUELING CAVITY TILT MACHINE REPAIR JOB EVEN THOUGH SURVEYS AND DOSE ESTIMATES INDICATED THAT DOSE RATES MIGHT EXCEED 1000 MREM/HOUR, THAT THE DIVER'S WHOLE BODY DOSE WAS EXPECTED TO EXCEED 1500 MREMS FOR THE JOB, AND THAT CONTAMINATION LEVELS (DRY) EXCEEDED 100,000 DPM/100 CM3. (2) PROCEDURE NO. 7.03, "RADIATION WORK PERMIT," REQUIRES THAT A JOB BE SECURED (STOPPED) IF UNPLANNED CHANGES IN WORKING CONDITIONS OCCUR WHICH MIGHT INVALIDATE THE BASIS FOR AN APPLICABLE RADIATION WORK PERMIT. CONTRARY TO THE ABOVE, THE REFUELING CAVITY TILT MACHINE REPAIR JOB WAS NOT STOPPED EVEN THOUGH RADIATION LEVELS IN THE WORK AREA AS HIGH AS SEVEN TIMES GREATER THAN THOSE IDENTIFIED ON THE RADIATION WORK PERMIT WERE IDENTIFIED. (3) PROCEDURE NO. HP 2.14, "RADIOLOGICAL SURVEY REQUIREMENTS," STATES THAT RADIATION WORK PERMITS SHALL INCLUDE APPLICABLE REQUIREMENTS FOR CONTINUOUS, INTERMITTENT, AND/OR PRE-JOB AND POST-JOB SURVEYS. CONTRARY TO THE ABOVE, THE RADIATION WORK PERMIT WRITTEN FOR THE REFUELING CAVITY TILT MACHINE REPAIR JOB DID NOT CONTAIN ANY SURVEY REQUIREMENTS. SURVEYS CONDUCTED DURING THE DIVING OPERATION WERE NOT SUFFICIENT TO IDENTIFY THE EXISTING RADIOLOGICAL CONDITIONS. 10 CFR 20.401 REQUIRES THAT RECORDS BE MAINTAINED OF SURVEYS MADE BY THE LICENSEE TO DETERMINE COMPLIANCE WITH NRC REGULATIONS. CONTRARY TO THE ABOVE, NO RECORDS WERE MAINTAINED OF RADIATION SURVEYS CONDUCTED ON MARCH 18, 1984, TO ASSESS THE UNDERWATER RADIATION HAZARDS PRESENT IN THE REFUELING CAVITY TILT MACHINE AREA. (3406 4)

TECHNICAL SPECIFICATION 6.8.1.A, BY REFERENCE THROUGH APPENDIX A OF REGULATORY GUIDE 1.33, REQUIRES IMPLEMENTATION OF PROCEDURES FOR NUCLEAR STARTUP. PLANT PROCEDURE T-95 "INITIAL APPROACH TO CRITICAL FOR A NEW PALISADES CORE" PROVIDES FOR ESTABLISHMENT OF AN INITIAL PCS BORON CONCENTRATION (STEP 3.3) AND A PREREQUISITE (STEP 3.4) STATING "NO DILUTION IS OCCURRING." DILUTION IS COMMENCED AT STEP 5.10 AFTER ALL CONTROL RODS ARE WITHDRAWN (STEPS 5.1 THROUGH 5.6) AND SPECIFIED VERIFICATIONS ARE COMPLETED.

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### ENFORCEMENT SUMMARY

CONTRARY TO THE ABOVE, ON JULY 24, 1984 THE LICENSEE PERFORMED THREE PCS DILUTIONS WHICH REDUCED THE BORON CONCENTRATION FROM 14:00 PPM (ESTABLISHED AT STEP 3.3) TO 1357 PPM, WHILE PERFORMING PROCEDURE T-95 BUT BEFORE REACHING STEP 5.10 FOR COMMENCING DILUTION TITLE 10, CODE OF FEDERAL REGULATIONS, PART 50.54(Q) REQUIRES OPERATING POWER REACTOR LICENSEES TO FOLLOW THEIR NRC-APPROVED EMERGENCY PLANS. PALISADES PLANT SITE EXERGENCY PLAN, AS APPROVED BY NRC, SPECIFIES AT PARAGRAPH 4.1.1 THAT INCIDENTS SHALL BE CLASSIFIED AS AN UNUSUAL EVENT WITH INITIATING CONDITIONS LISTED IN TABLE 4.2. TABLE 4.2, IN TURN, LISTS "PRIMARY COOLANT SYSTEM LEAKAGE IN EXCESS OF TECHNICAL SPECIFICATIONS BUT LESS THAN 50 GPM" AND "CRITICAL OPERATION AT PCS TEMPERATURE LESS THAN 525 DEGREES F" AS UNUSUAL EVENTS. CONTRARY TO THE ABOVE, WHEN PRIMARY COOLANT SYSTEM LEAKAGE EXCEEDED TECHNICAL SPECIFICATIONS (1.0 CLASSIFY (JULY 27) THESE CIRCUMSTANCES AS UNUSUAL EVENTS. ALSO CONTRARY TO THE ABOVE, WITH THE REACTOR CRITICAL AT PCS TEMPERATURE LESS THAN 525 DEGREES F AT 5:44 P.M. ON JULY 28, 1984 THE LICENSEE DID NOT CLASSIFY AS AN UNUSUAL EVENT UNTIL 7:09 P.M. AS A DIRECT CONSEQUENCE, IMMEDIATE (WITHIN ONE HOUR) NOTIFICATIONS OF THESE EVENTS TO NRC AND OTHERS WERE NOT COMPLETED IN A CIMPLE FASHION AS ENVISIONED UNDER 10 CFR 50.72.

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS IN COLD SHUTDOWN FOR REPAIR OF RCP-50C

LAST IE SITE INSPECTION DATE: OCTOBER 3-19, 1984

INSPECTION REPORT NO: 84-22

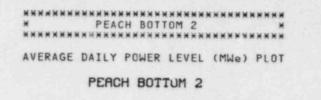
## REPORTS FROM LICENSEE

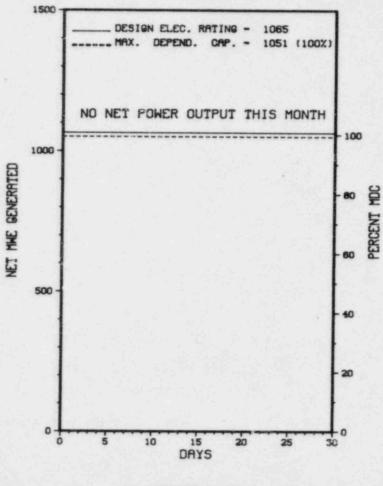
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-15	08/04/84	08/31/84	REACTOR TRIP DUE TO LOSS OF ELECTRO HYDRAULIC FLUID PRESSURE
84-16	08/10/84	09/10/84	PRIMARY COOLANT SYSTEM UNIDENTIFIED LEAKAGE >1 GPM

PAGE 2-217

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1.	Docket: _50-277	OPERA	TINGS	TATUS
2.	Reporting Period:	84 Outag	e + On-line	Hrs: 720.0
3.	Utility Contact:W. M. A	1den (215)	841-5022	
4.	Licensed Thermal Power (M	Wt):		3293
5.	Nameplate Rating (Gross M	We):	1280 X	0.9 = 1152
6.	Design Electrical Rating	(Net MWe):	1.1	1065
7.	Maximum Dependable Capaci	ty (Gross I	1We):	1098
8.	Maximum Dependable Capaci	ty (Net MW	e):	1051
9.	If Changes Occur Above Si NONE	nce Last Re	aport, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	We):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 89,783.0
13.	Hours Reactor Critical	. 0	2,583.9	62,283.0
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	
15.	Hrs Generator On-Line	. 0	2,544.8	_ 60,556.6
16.	Unit Reserve Shtdwn Hrs		. 0	
17.	Gross Therm Ener (MWH)	0	7,865,391	178,420,001
18.	Gross Elec Ener (MWH)	0	2,547,570	58,718,660
19.	Net Elec Ener (MWH)	-3,910	2,438,271	56,274,701
20.	Unit Service Factor	. 0	38.7	67.4
21.	Unit Avail Factor			67.4
22.	Unit Cap Factor (MDC Net)		35.3	59.6
23.	Unit Cap Factor (DER Net)		34.8	58.9
24.	Unit Forced Outage Rate		4.4	12.5
25.	Forced Outage Hours		116.4	8,628.6
26.	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,D	)uration):
27.	If Currently Shutdown Esti	mated Star	tun Data:	02/15/85





SEPTEMBER 1984

Repor	t Period SEP 19	84	UN	IT SHU	TDOWN	5 / R	X E D U C T I O N S         X X X X X X X X X X X X X X X X X X X	
No.	Date Type	Hours Rea	son Method	LER Number	System Con	mponent	Cause & Corrective Action to Prevent Recurrence	-
5	04/27/84 5	720.0	: 4		RC F	UELXX	SHUTDOWN FOR SIXTH REFUEL AND MAINTENANCE CONTINUES.	

Type	Reason		Method	System & Component
F-Forced S-Sched	B-Maint or Test	H-Other riction ng	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)

### FACILITY DESCRIPTION

LOCATION STATE.....PENNSYLVANIA

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

# FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

LICENSEE.....PHILADELPHIA ELECTRIC

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.....A. BLOUGH

LICENSING PROJ MANAGER.....G. GEARS 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 SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

××	¥	×	¥	×	¥	×	×	×	×	×	×	×	¥	×	×	×	×	×	×	×	×	×	×	¥	×	×	×	×	×	×	¥	×	×	×	
×									P	E	A	C	H		B	0	T	T	0	M	6	2												×	
××	×	¥	×	×	×	×	¥	×	×	×	*	*	×	×	¥	×	×	×	×	×	×	×	×	×	×	*	×	×	×	×	×	*	×	*	

# OTHER ITEMS

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

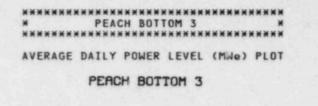
INSPECTION REPORT NO: NO INPUT PROVIDED.

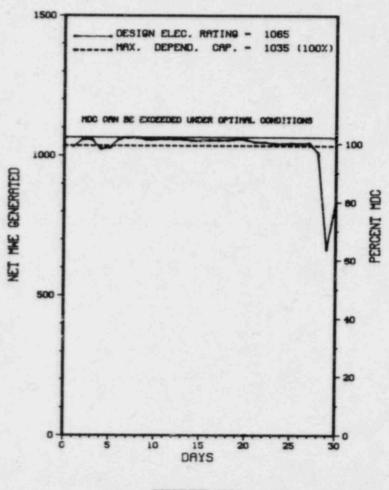
# REPORTS FROM LICENSEE

NUMBER DATE OF DATE OF SUBJECT EVENT REPORT

NO INPUT PROVIDED.

3.	Utility Contact: W. M. A.	lden (215)	841-5022	
4.	Licensed Thermal Power (M	Wt):		3293
5.	Nameplate Rating (Gross M			0.9 = 1152
6.	Design Electrical Rating	(Net MWe):		1065
7.	Maximum Dependable Capaci	ty (Gross M	1We):	1098
8.	Maximum Dependable Capaci	ty (Net MWa	e):	1035
	If Changes Occur Above Sin NONE		eport, Give	Reasons:
	Power Level To Which Rest		Any (Net M	4e):
n.	Reasons for Restrictions,	If Any:	1	
	NONE			1896.4.3
12.	Report Period Hrs	MONTH 720.0		CUMULATIVE 85,679.0
13.	Hours Reactor Critical	720.0	5,684.8	62,484.9
14.	Rx Reserve Shtdwn Hrs			
15.	Hrs Generator On-Line	720.0	5,614.4	60,930.6
16.	Unit Reserve Shtdwn Hrs	. 0	. 0	0
17.	Gross Therm Ener (MWH)	2,251,536	17,794,023	178,832,328
18.	Gross Elec Ener (MWH)	765,220	5,939,240	58,754,360
19.	Net Elec Ener (MWH)		5,749,548	56,413,333
20.	Unit Service Factor	100.0	85.4	71,1
	Unit Avail Factor	100.0	85.4	71.1
21.	Unit Cap Factor (MDC Net)	99.5	84.5	63.6
	Unit Cap Factor (DER Net)	96.7	82.1	61.8
22.		. 0	11.7	7.7
22.	Unit Forced Outage Rate			
22. 23. 24.	Unit Forced Outage Rate Forced Outage Hours		747.1	5,078.0





SEPTEMBER 1984

Report	Period S	EP 19	84		UN	IT	SHU	TDO	W	N S	'	R	EI	D U	c	T	I	0	N S	S PEACH BOTTOM 3	
No.	Date 09/29/84			-	Method 5	LER	Number	Syst RB			pone ZZZZ		LOI	AD						Corrective Action to Prevent Recurrence FGR CONTROL ROD PA ADJUSTMENT; 3 'C'	-
	09/29/84	5	0.0	н	5			RB		ZZ	ZZZZ									FUR CONTROL ROD PA ADJUSTMENT; 3 'C' P WORK; 3 'C' CONDENSATE PUMP WORK.	

Type	Reason		Method	System & Component
F-Forced S-Sched	A-Equip Failure B-Maint or Test C-Refueling D-Regulatory Res E-Operator Train & License Exa	H-Other triction ing	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)

\* PEACH BOTTOM 3 \*

## 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

#### FACILITY DATA

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.....A. BLOUGH

LICENSE & DATE ISSUANCE.... DPR-56, JULY 2, 1974

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#### INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

PAGE 2-224

Report Period SEP 1984

#### 

1255

# 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

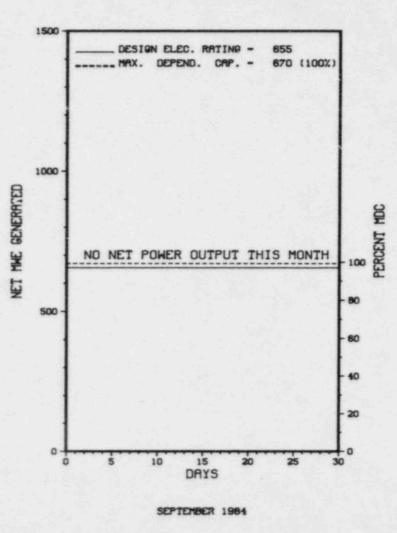
NUMBER	DATE OF	DATE OF	SUBJECT
	EVENT	REPORT	

NO INPUT PROVIDED.

1.	Docket: 50-293 0	PERAT	INGS	TATUS
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: P. HAMIL	TON (617) 7	46-7905	
4.	Licensed Thermal Power (MW	lt):		1998
5.	Nameplate Rating (Gross MW	le):	780 X	0.87 = 675
6.	Design Electrical Rating (	Net MWe):		655
1.	Maximum Dependable Capacit	y (Gross Mk	le):	690
8.	Maximum Dependable Capacit	y (Net MWe)		670
	If Changes Occur Above Sin NONE	ce Last Rep	oort, Give	Reasons:
	Power Level To Which Restr	icted. If A	inv (Net M	
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical	. 0	. 0	69,733.9
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	. 0
15.	Hrs Generator On-Line	. 0	. 0	67,521.6
16.	Unit Reserve Shtdwn Hrs	. 0		0
17.	Gross Therm Ener (MWH)	0	6	116,932,632
18.	Gross Elec Ener (MWH)	0	0	39,228,314
19.	Net Elec Ener (MWH)	0	0	37.693,409
20.	Unit Service Factor	. 0		65.2
21.	Unit Avail Factor	. 0	. 0	65.2
22.	Unit Cap Factor (MDC Net)	. 0		54.3
23.	Unit Cap Factor (DER Net)	. 0		55.6
24.	Unit Forced Gutage Rate			9.2
25.	Forced Outage Hours	. 0		6,842.5
	Shutdowns Sched Over Next NONE	6 Months (T	ype,Date,I	Duration):
	If Currently Shutdown Esti	maked Start	up Data:	11/15/84

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		ľ	1		1			1		-			1	1		1				1	1	2	8		1	1		1	1	-			1	-	1	*		Ĩ
2	A	v	1	ĸ	A	1	3	E		L		4	1	L	T		٢	0	W	E	ĸ		L	E	V	E	L		¢	m	k	e	2		٢	L	0	1

PILGRIM 1



Report Period SEP	1984	UNIT SHU	ITDOWNS / R	EDUCTIONS	
No. Date Ty	pe Hours Reason	n Method LER Number	System Component	Cause & Corrective Action to Prevent Recurrence	
16 12/10/83	s 720.0 C	4		SHUTDOWN FOR REFUELING AND RECIRCULATION PIPE REPLACEMENT CONTINUES.	

Type	Reason	Method	System & Cumponent
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)

#### FACILITY DESCRIPTION

LOCATION STATE.....MASSACHUSETTS COUNTY......PLYMOUTH DIST AND DIRECTION FROM NEAREST POPULATION CTR...4 MI SE OF PLYMOUTH, MASS TYPE OF REACTOR......BWR

DATE INITIAL CRITICALITY...JUNE 16, 1972

DATE ELEC ENER 1ST GENER...JULY 19, 1972

DATE COMMERCIAL OPERATE.... DECEMBER 1, 1972

CONDENSER COOLING METHOD ... ONCE THRU

CONDENSER COOLING WATER .... CAPE COD BAY

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

## FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....BOSTON EDISON

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.....J. JOHNSON

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

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO IMPUT PROVIDED.

PAGE 2-228

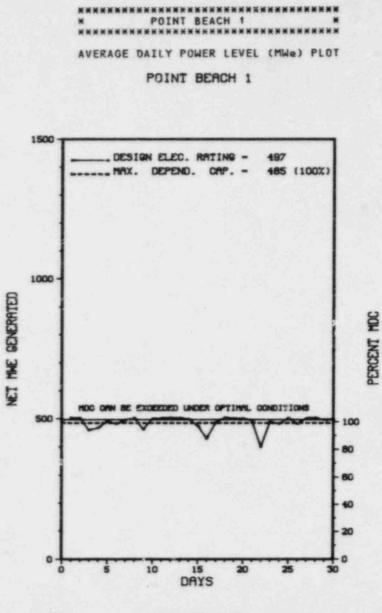
Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

\*\*\*\*\*\* \* PILGRIM 1 \*

# OTHER ITEMS

M-HAGERIAL ITEMS:
NO INPUT PROVIDED.
PLANT STATUS:
NO INPUT PROVIDED.
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.
INSPECTION REPORT NO: NO INPUT PROVIDED.
REPORTS FROM LICENSEE
NUMBER DATE OF DATE OF SUBJECT EVENT REPORT
NO INPUT PROVIDED.

1.	Docket: _50-266	PERAT	ING S	TATUS
2.	Reporting Period: _09/01/3	0utage	+ On-line	Hrs: 720.0
3.	Utility Contact: _ C. W. K	RAUSE (414)	277-2001	
4.	Licensed Thermal Power (Mi	lt):		1518
5.	Nameplate Rating (Gross M	le):	582 X 0	.9 = 524
6.	Design Electrical Rating	(Net MWe):	_	497
7.	Maximum Dependable Capaci	ty (Gross M	We):	519
8.	Maximum Dependable Capaci	ty (Net MWe	.):	485
9.	If Changes Occur Above Sin NONE	nce Last Re	port, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net Mk	le):
11.	Reasons for Restrictions,	If Any:		
1	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 121,871.0
13.	Hours Reactor Critical	720.0	4,211.1	98,289.6
4.	Rx Reserve Shtdwn Hrs	0	4.3	629.7
5.	Hrs Generator On-Line	720.0	4,171.0	95,778.5
6.	Unit Reserve Shtdwn Hrs	0	9.0	802.5
7.	Gross Therm Ener (MWH)	1,057,231	6,102,964	129,638,276
18.	Gross Elec Ener (MWH)	366,790	2,106,710	43,502,690
19.	Net Elec Ener (MWH)		2,013,874	41,381,756
20.	Unit Service Factor	100.0	63.4	78.6
21.	Unit Avail Factor	100.0	63.6	79.2
22.	Unit Cap Factor (MDC Net)	100.5	63.2	69.4
23.	Unit Cap Factor (DER Net)	98.1	61.6	68.3
24.	Unit Forced Outage Rate		0	2.6
25.	Forced Outage Hours	0	0	2,406.3
26.	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,I	Duration):



SEPTEMBER 1984

\* Item calculated with a Weighted Average

Report Period SEP 1984	UNIT SHU	T D O W N S / R E D U C T I O N S	**************************************
No. Date Type Hours Reason Me	thod LER Number	System Component Cause & Corr	ective Action to Prevent Recurrence

NONE

Туре	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)

# 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 IST 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

#### FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY

CONTRACTOR ARCHITECTZENGINEER BECHTEL

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER......WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....R. HAGUE

LICENSE & DATE ISSUANCE.... DPR-24, OCTOBER 5, 1970

PUBLIC DOCUMENT ROOM.....JOSEPH MANN PUBLIC LIBRARY 1516 16TH ST. TWO RIVERS, WISCONSIN 54241

#### INSPECTION SUMMARY

INSPECTION ON AUGUST 6-10, 14 AND 15, (84-14): ROUTINE UNANNOUNCED INSPECTION OF: (1) CONFIRMATORY MEASUREMENTS, INCLUDING SAMPLING, LABORATORY QUALITY CONTROL, AND CONFORMANCE OF LICENSEE ANALYSES WITH THOSE OF THE REGION III MOBILE LABORATORY AND THE NRC REFERENCE LABORATORY; (2) RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP) INCLUDING PROGRAM MANAGEMENT, QUALITY CONTROL, AND IMPLEMENTATION; AND (3) LICENSEE ACTIONS TAKEN ON AN OPEN ITEM IDENTIFIED IN A PREVIOUS INSPECTION. THE INSPECTION INVOLVED 82 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

INSPECTION STATUS

#### ENFORCEMENT SUMMARY

10 CFR 50.54(Q) REQUIRES THAT NUCLEAR POWER REACTOR LICENSEES FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE REQUIREMENTS OF APPENDIX E TO 10 CFR PART 50 AND THE PLANNING STANDARDS OF 50.47(B). SECTION IV.B OF APPENDIX E REQUIRES THAT A LICENSEE'S EMERGENCY PLANS SHALL INCLUDE INFORMATION TO DEMONSTRATE COMPLIANCE WITH THE FOLLOWING: THE MEANS FOR DETERMINING THE MAGNITUDE AND FOR CONTINUALLY ASSESSING THE IMPACT OF THE RELEASE OF RADIOACTIVE MATERIAL SHALL BE DESCRIBED, INCLUDING EMERGENCY ACTION LEVELS THAT ARE TO BE USED AS CRITERIA FOR NOTIFICATION AND PARTICIPATION OF LOCAL AND STATE AGENCIES, THE COMMISSION, AND OTHER FEDERAL AGENCIES, AND THE EMERGENCY ACTION LEVELS THAT ARE TO BE USED FOR DETERMINING WHEN AND WHAT TYPE OF PROTECTIVE MEASURES SHOULD BE CONSIDERED WITHIN AND OUTSIDE THE SITE BOUNDARY TO PROTECT HEALTH AND SAFETY. SECTION 5.0 OF CHAPTER 6.0 OF THE POINT BEACH NUCLEAR PLANT EMERGENCY PLAN STATES IN PART THAT RECOMMENDATIONS FOR OFFSITE PROTECTIVE ACTIONS WILL BE MADE ONLY BY THE EMERGENCY SUPPORT MAKAGER BUT THAT THE SHIFT SUPERINTENDENT WILL HAVE THE RESPONSIBILITY AND AUTHORITY OF THE EMERGENCY

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INSPECTION STATUS - (CONTINUED)

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#### ENFORCEMENT SUMMARY

SUPPORT MANAGER AT THE BEGINNING OF AN EMERGENCY EVOLUTION. CONTRARY TO THE ABOVE, SHIFT SUPERINTENDENTS, WHO HAVE THE INITIAL RESPONSIBILITY AND AUTHORITY OF THE EMERGENCY SUPPORT MANAGER TO MAKE OFFSITE PROTECTIVE ACTION RECOMMENDATIONS, WERE INCAPABLE OF DETERMINING WHEN AND WHAT TYPE OF PROTECTIVE MEASURES SHOULD BE CONSIDERED OUTSIDE THE SITE BOUNDARY TO PROTECT PUBLIC HEALTH AND SAFETY. TO CFR 50.54(T) FEQUIRES THAT NUCLEAR POWER REACTOR LICENSEES REVIEW THEIR EMERGENCY PREPAREDNESS PROGRAM AT LEAST EVERY 12 MONTHS. THE REVIEW SHALL INCLUDE AN EVALUATION FOR ADEQUACY OF INTERFACES WITH STATE AND LOCAL GOVERNMENTS. CONTRARY TO THE ABOVE, THE LICENSEE DID NOT INCLUDE AN EVALUATION FOR ADEQUACY OF INTERFACES WITH THE STATE AND LOCAL GOVERNMENTS IN THE 1984 ANNUAL AUDIT. (8413 4)

10 CFR 50.54(Q) REQUIRES THAT NUCLEAR POWER REACTOR LICENSEES FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE REQUIREMENTS OF APPENDIX E TO 10 CFR PART 50 AND THE PLANNING STANDARDS OF 50.47(B). 10 CFR PART 50, APPENDIX E PARAGRAPH IV.B. STATES THAT EMERGENCY ACTION LEVELS SHALL BE DISCUSSED AND AGREED ON BY THE APPLICANT AND STATE AND LOCAL GOVERNMENTAL AUTHORITIES AND REVIEWED WITH STATE AND LOCAL GOVERNMENTAL AUTHORITIES ON AN ANNUAL BASIS. CONTRARY TO THE ABOVE, EMERGENCY ACTION LEVELS FOR THE POINT BEACH NUCLEAR PLANT HAD LAST BEEN REVIEWED BY THE STATE OF WISCONSIN IN NOVEMBER 1982. (8413 5)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

4

PLANT STATUS:

THE UNIT IS OPERATING NORMALLY.

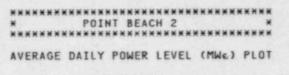
LAST IE SITE INSPECTION DATE: OCTOBER 1 - NOVEMBER 30, 1984

**INSPECTION REPORT NO: 84-18** 

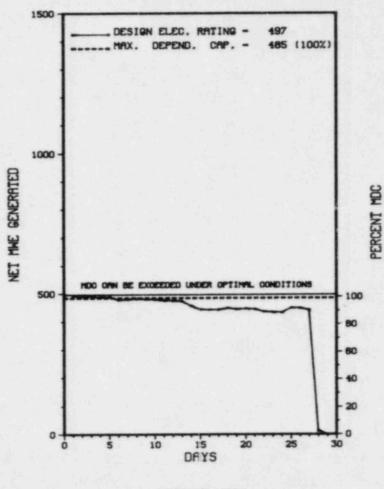
#### REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT	
NONE				
********				

1.	Docket: 50-301 0	PERAT	ING S	TATUS
	Reporting Period: 09/01/8			
3.	Utility Contact: _ C. W. KR	AUSE (414)	277-2001	
4.	Licensed Thermal Power (MW	t):		1518
	Nameplate Rating (Gross MW			.9 = 524
6.	Design Electrical Rating (	Net MWe):		497
7.	Maximum Dependable Capacit	y (Gross M	We):	519
8.	Maximum Dependable Capacit	y (Net MWe	):	485
9.	If Changes Occur Above Sin	ce Last Re	port, Give	Reasons:
	NONE			
10.	Power Level To Which Restr	icted, If	Any (Net M	de):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR	CUMULATIVE 106,656.0
13.	Hours Reactor Critical	659.6	6,489.2	94,917.4
14.	Rx Reserve Shtdwn Hrs	. 0	8.8	207.1
15.	Hrs Generator On-Line	652.0	6,417.9	93,320.7
16.	Unit Reserve Shtdwn Hrs	. 0	15.4	198.1
17.	Gross Therm Ener (MWH)	921,284	9,542,695	130,437,472
8.	Gross Elec Ener (MWH)	315,720	3,229,550	44, 189, 380
19.	Net Elec Ener (MWH)	300,283	3,084,694	42,089,959
20.	Unit Service Factor	90.6	97.6	
1.	Unit Avail Factor	90.6	97.8	87.7
22.	Unit Cap Faster (MDC Net)	86.0	95.4	80.3
23.	Unit Cap Factor (DER Net)	83.9	94.4	79.4
24.	Unit Forced Outage Rate	. 0	. 0	1.4
25.	Forced Outage Hours	0		692.2
26.	Shutdowns Sched Over Next NONE	6 Months (	Type, Date, I	Duration):



POINT BEACH 2



SEPTEMBER 1984

\* Item calculated with a Weighted Average

PAGE 2-234

3

Report	Period SEP	1984		UN	ΙT	sнu	TDO	N	s /	RE	DU	c	TI	0	N :	**************************************
No.	Date Tyr	Hours	Reason	Method	LER	Number	Syster	n Co	ompone	nt :		С	aus	e	1 C (	orrective Action to Prevent Recurrence
3	09/28/84	68.0	с	1			RC	F	FUELXX	(	OMME	NCE	D 4	7-1	YAC	REFUELING OUTAGE.

\*\*\*\*\*\*\*\*\*\* POINT BEACH 1 BEGAN A REFUELING DUTAGE ON SEPTEMBER 28TH. \* SUMMARY \* \*\*\*\*\*\*\*\*

Туре	Reason		Method	System & Component
F-Forced S-Sched	A-Equip Failure B-Maint or Test C-Refueling D-Regulatory Res E-Operator Train & License Exa	H-Other triction ing	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)

# NAME POINT BEACH 2 NAME NAME

#### 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 INTERFOOL NETWORK

#### FACILITY DATA

#### 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

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 AUGUST 6-10, 14 AND 15, (84-12): ROUTINE UNANNOUNCED INSPECTION OF: (1) CONFIRMATORY MEASUREMENTS, INCLUDING SAMPLING, LABORATORY QUALITY CONTROL, AND CONFORMANCE OF LICENSEE ANALYSES WITH THOSE OF THE REGION III MOBILE LABORATORY AND THE NRC REFERENCE LABORATORY; (2) RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP) INCLUDING PROGRAM MANAGEMENT, QUALITY CONTROL, AND IMPLEMENTATION; AND (3) LICENSEE ACTIONS TAKEN ON AN OPEN ITEM IDENTIFIED IN A PREVIOUS INSPECTION. THE INSPECTION INVOLVED 82 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTIONS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED DURING THIS INSPECTION.

#### ENFORCEMENT SUMMARY

10 CFR 50.54(Q) REQUIRES THAT NUCLEAR POWER REACTOR LICENSEES FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE REQUIREMENTS OF APPENDIX E TO 10 CFR PART 50 AND THE PLANNING STANDARDS OF 50.47(B). SECTION IV.B OF APPENDIX E REQUIRES THAT A LICENSEE'S EMERGENCY PLANS SHALL INCLUDE INFORMATION TO DEMONSTRATE COMPLIANCE WITH THE FOLLOWING: THE MEANS FOR DETERMINING THE MAGNITUDE AND FOR CONTINUALLY ASSESSING THE IMPACT OF THE RELEASE OF RADIOACTIVE MATERIAL SHALL BE DESCRIBED. INCLUDING EMERGENCY ACTION LEVELS THAT ARE TO BE USED AS CRITERIA FOR NOTIFICATION AND PARTICIPATION OF LOCAL AND STATE AGENCIES, THE COMMISSION, AND OTHER FEDERAL AGENCIES, AND THE EMERGENCY ACTION LEVELS THAT ARE TO BE USED FOR DETERMINING WHEN AND WHAT TYPE OF PROTECTIVE MEASURES SHOULD BE CONSIDERED WITHIN AND OUTSIDE THE SITE BOUNDARY TO PROTECT HEALTH AND SAFETY. SECTION 5.0 OF CHAPTER 6.0 OF THE POINT BEACH NUCLEAR PLANT EMERGENCY PLAN STATES IN PART THAT RECOMMENDATIONS FOR OFFSITE PROTECTIVE ACTIONS WILL BE MADE ONLY BY THE EMERGENCY SUPPORT MANAGER BUT THAT THE SHIFT SUPERINTENDENT WILL HAVE THE RESPONSIBILITY AND AUTHORITY OF THE EMERGENCY

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Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### ENFORCEMENT SUMMARY

SUPPORT MANAGER AT THE BEGINNING OF AN EMERGENCY EVOLUTION. CONTRARY TO THE ABOVE, SHIFT SUPERINTENDENTS, WHO HAVE THE INITIAL RESPONSIBILITY AND AUTHORITY OF THE EMERGENCY SUPPORT MANAGER TO MAKE OFFSITE PROTECTIVE ACTION RECOMMENDATIONS, WERE INCAPABLE OF DETERMINING WHEN AND WHAT TYPE OF PROTECTIVE MEASURES SHOULD BE CONSIDERED OUTSIDE THE SITE BOUNDARY TO PROTECT PUBLIC HEALTH AND SAFETY. 10 CFR 50.54(T) REQUIRES THAT NUCLEAR POWER REACTOR LICENSEES REVIEW THEIR EMERGENCY PREPAREDNESS PROGRAM AT LEAST EVERY 12 MONTHS. THE REVIEW SHALL INCLUDE AN EVALUATION FOR ADEQUACY OF INTERFACES WITH STATE AND LOCAL GOVERNMENTS. CONTRARY TO THE ABOVE, THE LICENSEE DID NOT INCLUDE AN EVALUATION FOR ADEQUACY OF INTERFACES WITH THE STATE AND LOCAL GOVERNMENTS IN THE 1984 ANNUAL AUDIT. (8411 4)

10 CFR 50.54(Q) REQUIRES THAT NUCLEAR POWER REACTOR LICENSEES FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE REQUIREMENTS OF APPENDIX E TO 10 CFR PART 50 AND THE PLANNING STANDARDS OF 50.47(B). 10 CFR PART 50, APPENDIX E PARAGRAPH IV.B. STATES THAT EMERGENCY ACTION LEVELS SHALL BE DISCUSSED AND AGREED ON BY THE APPLICANT AND STATE AND LOCAL GOVERNMENTAL AUTHORITIES AND REVIEWED WITH STATE AND LOCAL GOVERNMENTAL AUTHORITIES ON AN ANNUAL BASIS. CONTRARY TO THE ABOVE, EMERGENCY ACTION LEVELS FOR THE POINT BEACH NUCLEAR PLANT HAD LAST BEEN REVIEWED BY THE STATE OF WISCONSIN IN NOVEMBER 1982. (8411 5)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS SHUTDOWN FOR A SCHEDULED REFUELING OUTAGE

LAST IE SITE INSPECTION DATE: OCTOBER 4, 1984

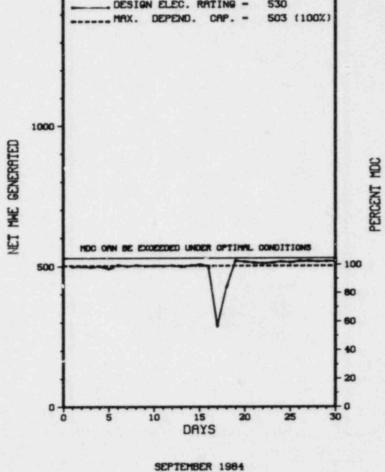
INSPECTION REPORT NO: 84-17

#### REPORTS FROM LICENSEE

		==============		
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT	
NONE				

١.	Docket: 50-282	OPERAT	TING S	TATUS
2.	Reporting Period:	84 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact:	GSTAD (612)	388-1121	
4.	Licensed Thermal Power (M	Wf):		1650
5.	Nameplate Rating (Gross M			0.9 = 593
6.	Design Electrical Rating	(Net MWe):		530
7.	Maximum Dependable Capaci	ty (Gross M	1We):	534
8.	Maximum Dependable Capaci	ty (Net MW	e):	503
9.	If Changes Occur Above Sin			Reasons:
10.	Power Level To Which Rest			ve):
11.	Reasons for Restrictions, NONE	If Any:		
	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical	720.0	6,515.6	78,188.6
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	5,571,1
15.	Hrs Generator On-Line	720.0	6,489.5	76,870.6
16.	Unit Reserve Shtdwn Hrs		. 0	. 0
17.	Gross Therm Enar (MWH)	1,139,585	10,449,203	120,760,365
18.	Gross Elec Ener (MWH)	382,190	3,456,830	39,336,630
19.	Net Elec Ener (MWH)	358,737	3,258,352	36,849,781
20.	Unit Service Factor	100.0	98.7	81.3
21.	Unit Avail Factor	100.0	98.7	81.3
22.	Unit Cap Factor (MDC Net)	99.1	98.5	77.4
23.	Unit Cap Factor (DER Net)	94.0	93.5	73.5
24.	Unit Forced Outage Rate		.2	7.9
25.	Forced Outage Hours		14.5	2,935.4
	Shutdowns Sched Over Next			
	TEN YEAR OVERHAUL IN JANUA If Currently Shutdown Esti			NZA

VERAGE	DATLY	POL	ED I EN	EI	(Mile)	PLOT
VERAGE	DAILI	FUW	CR LEV	CL	(nwe)	FLUI
	PRAI	RIE	ISLAN		6. C	
	1510N F		PATINO	_	530	_
	SIGN EL				530	
	SIGN EL					1002)



Repor	t Period S	EP 19	84		UN	IT	SHU	TDO	N O	N 1	s /	R	E	DL	u c	C 1	T	1 (	0	N S	H     PRAIRIE ISLAND 1     H       H     H     H
No.	Date	Type	Hours	Reason	Method	LER	Number	Syst	tem	Cor	mpone	Int	_		-	Ca	aus	se.	8	Co	prrective Action to Prevent Recurrence
	09/17/84	S	0.0	В	5								IM	IPRO	OPE	ER	VI	AL	VE	LI	SECONDARY WATER SYSTEM CAUSED BY INEUP. SOURCE OF CONTAMINANT JRBINE VALVES TEST.

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)

#### FACILITY DESCRIPTION

LOCATION

STATE.....MINNESOTA

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

#### FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

CORPORATE ADDRESS.......414 NICOLLET MALL MINNEAPOLIS, MINNESOTA 55401

CONTRACTOR

ARCHITECT/ENGINEER.....FLUOR PIONEER, INC.

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....J. HARD

LICENSE & DATE ISSUANCE....DPR-42, APRIL 5, 1974

PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY MINNEAPOLIS PUBLIC LIBRARY 300 NICOLLET MALL MINNEAPOLIS, MINNESOTA 5540;

#### INSPECTION SUMMARY

INSPECTION ON JUNE 11, - AUGUST 10, (84-09): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PLANT OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCE, STEAM GENERATOR TUBES, ANKER-HOLTH SNUBBERS, NEW FUEL, LICENSEE EVENT REPORTS. THE INSPECTION INVOLVED A TOTAL OF 378 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS INCLUDING 46 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

PAGE 2-240

Report Period SEP 1984

\*\*\*\*\* PRAIRIE ISLAND 1 \* \*\*\*\*\*\*\*\*\*\*\*\*

OTHER ITEMS

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS OPERATING NORMALLY

LAST IE SITE INSPECTION DATE: OCTOBER 3-5, 1984

INSPECTION REPORT NO: 84-12

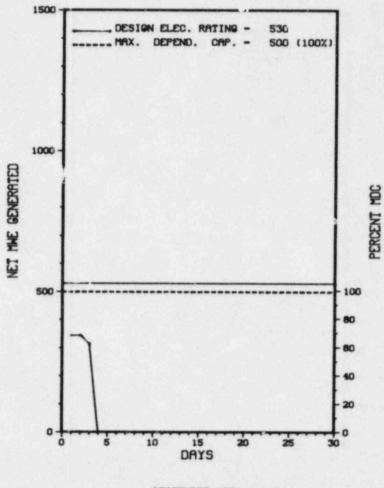
### REPORTS FROM LICENSEE

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

1	Docket: _50-306_	PERAT		TATUS
	Reporting Period:			
	Utility Contact: DALE DU			
	Licensed Thermal Power (M			
				1650
	Nameplate Rating (Gross M			
	Design Electrical Rating			530
	Maximum Dependable Capacit			
	Maximum Dependable Capacit			
۶.	If Changes Occur Above Sin	nce Last Re	eport, Give	Reasons:
	NONE			
10.	Power Level To Which Rest	ricted, If	Any (Net M	we):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIV 85,725.1
13.	Hours Reactor Critical	72.5	5,927.5	74, 177.
14.	Rx Reserve Shtdwn Hrs			1,516.
15.	Hrs Generator On-Line	71.4	5,926.4	
16.	Unit Reserve Shtdwn Hrs			
17.	Gross Therm Ener (ML!H)	80,315	9,355,203	115,087,06
18.	Gross Elec Ener (MWH)	26,160	3,098,480	37,205,88
19.	Net Elec Ener (MWH)	22,648	2,929,279	34,904,163
	Net Elec Ener (MWH) Unit Service Factor			
20.		9,9		85.0
20. 21.	Unit Service Factor	<u> </u>	<u>90.1</u> 90.1	<u> </u>
20. 21. 22.	Unit Service Factor Unit Avail Factor	<u>9.9</u> <u>9.9</u> <u>6.3</u>	<u>90.1</u> 90.1 89.1	85.0 85.0 81.0
20. 21. 22. 23.	Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	<u>9.9</u> <u>9.9</u> <u>6.3</u> 5.9	90, 1 90, 1 89, 1 84, 1	85.0 85.0 81.0 76.8
20. 21. 22. 23. 24.	Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	9.9 9.9 6.3 5.9 .0	<u>90,1</u> <u>90,1</u> <u>89,1</u> <u>84,1</u> .0	85.0 85.0 76.8 4.
20. 21. 22. 23. 24. 25.	Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Outage Rate	9.9 9.9 6.3 5.9 .0	90, 1 90, 1 89, 1 84, 1 .0	81.0 76.8 4.1 

×	9	f	×	×	*	1	0	*	×	×	×	×	×	*	×	×	×	×	×	×	×	×	×	×	¥	×	×	×	×	×	×	×	×	×	×	×	×	
×											P	R	A	I	R	I	E		I	S	L	A	N	D		2											×	
×	,	£	×	*	*		63	•	×	×	*	×	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	*	'n	×	×	×	×	×	×	
A		,	F	p		0	3			n		r	i.	~	1	P	0			2			E	v	=			2			_					~		
1	1		-	-	1	-	1	-		-	"	*	-	1			9		-	~		-	-		-	-				~	•	'			-	9	1	
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SEPTEMBER 1984

Report	Period St	EP 198	84		UN	IT	SHU	r D G	w 0	NS	1	RE	E D	U	ст	I	0	N S	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	Syst	tem	Com	poner	nt :			Ca	US	2 &	Co	rrective Action to Prevent Recurrence
	09/03/84	s	648.6	с	2			R	C	FU	ELXX	5	REFU	JEL	ING	0	ATL	GE	COMMENCES.

PRAIRIE ISLAND 2 ENTERED A REFUELING OUT AGE ON SEPTEMBER 3. \*\*\*\*\*\*\*\*

\* SUMMARY \*

Type	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Error C-Refueling H-Uther 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)

#### FACILITY DESCRIPTION

#### LOCATION

STATE.....MINNESOTA

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

FACILITY DATA

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

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

PUBLIC DOCUMENT ROOM.....ENVIRONMENTAL CONSERVATION LIBRARY MINNEAPOLIS PUBLIC LIBRARY 300 NICOLLET MALL MINNEAPOLIS, MINNESOTA 55401

#### INSPECTION SUMMARY

INSPECTION ON JUNE 11, - AUGUST 10, (84-08): ROUTINE, UNANNOUNCED INSPECTION BY RESIDENT INSPECTORS OF PLANT OPERATIONAL SAFETY, MAINTENANCE, SURVEILLANCE, STEAM GENERATOR TUBES, ANKER-HOLTH SNUBBERS, NEW FUEL, LICENSEE EVENT REPORTS. THE INSPECTION INVOLVED A TOTAL OF 378 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS INCLUDING 46 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATION 3.2, CHEMICAL AND VOLUME CONTROL SYSTEM, C. STATES, IN PART, "THE REACTOR IN THE SECOND UNIT SHALL NOT BE MADE OR MAINTAINED CRITICAL NOR SHALL IT BE HEATED OR MAINTAINED ABOVE 200 DEGREE WITH THE REACTOR IN THE OTHER UNIT ALREADY CRITICAL UNLESS THE FOLLOWING CONDITIONS ARE SATISFIED. 6. AUTOMATIC VALVES, PIPING, AND INTERLOCKS ASSOCIATED WITH THE ABOVE COMPONENTS WHICH ARE REQUIRED TO OPERATE FOR THE STEAM LINE BREAK ACCIDENT ARE OPERABLE." CONTRARY TO THE ABOVE, ON JUNE 18, 1984 WITH UNIT 2 AT FULL POWER, AND DURING PERFORMANCE OF SURVEILLANCE TEST PROCEDURE 1032 (STP 1032), UNIT 2 RWST VALVES 32 182 AND 32 183 STROKED OPEN AND REMAINED OPEN FOR ABOUT 1 HOUR WND 55 MINUTES. UNDER THESE CONDITIONS, CONCENTRATED BORIC ACID FROM THE BORIC ACID STORAGE TANKS WOULD NOT HAVE BEEN AUTOMATIC LLY SUPPLIED TO THE UNIT 2 SAFETY INJECTION PUMPS HAD A SAFETY INJECTION SIGNAL BEEN RECEIVED. VALVES 32 182 AND 32 183 WERE CLOSED BY THE CONTROL ROOM OPERATING CREW WHEN IT WAS NOTICED THAT THE VALVES WERE OPEN. HOWEVER, DURING THE 1 HOUR AND 55 MINUTE PERIOD DESCRIBED ABOVE, THE LICENSEE WAS IN VIOLATION OF A TECHNICAL

PAGE 2-244

Report Period SEP 1984

#### ENFORCEMENT SUMMARY

SPECIFICATION LIMITING CONDITION FOR OPERATION (LCO). (8410 4)

## OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS IN A SCHEDULED REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: OCTOBER 3-5, 1984

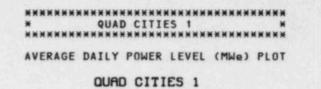
INSPECTION REPORT NO: 84-14

## REPORTS FROM LICENSEE

NUMBER DATE OF SUBJECT EVENT REPORT

NONE

1.	Docket: 50-254	OPERAT	ING S	TATUS
2.	Reporting Period: 09/01/	84 Outage	+ On-line	Hrs: 720.0
	Utility Contact: DAVE K			x192
4.	Licensed Thermal Power (M	Wt):		2511
5.	Nameplate Rating (Gross M	We):		0.9 = 828
6.	Design Electrical Rating	(Net MWe):		789
7.	Maximum Dependable Capaci	ty (Gross M	1We):	813
8.	Maximum Dependable Capaci	ty (Net MWa		769
9.	If Changes Occur Above Si NONE			Reasons:
10.	Power Level To Which Rest			We):
11.	Reasons for Restrictions,	If Any:		
_	NONE			
12.	Report Period Hrs	MONTH 720.0		CUMULATIVE 108,599.0
13.	Hours Reactor Critical	720.0	2,612.9	86,168.5
14.	Rx Reserve Shtdwn Hrs	0		3,421.9
15.	Hrs Generator On-Line	720.0	2,563.2	82,910.3
16.	Unit Reserve Shtdwn Hrs		. 0	909.2
17.	Gross Therm Ener (MWH)	1,630,543	5,727,126	170,833,832
18.	Gross Elec Ener (MWH)	536, 126	1,896,796	55, 155, 524
19.	Net Elec Ener (MWH)	513,251	1,794,423	51, 399, 683
20.	Unit Service Factor	100.0		76.3
21.	Unit Avail Factor	100.0	39.0	77.2
22.	Unit Cap Factor (MDC Net)	92.7	35.5	61.5
23.	Unit Cap Factor (DER Net)	90.3		60.0
24.	Unit Forced Outage Rate		1.6	5.8
25.	Forced Outage Hours		43.0	2,771.0
26.	Shutdowns Sched Over Next NONE			
27	If Currently Shutdown Est			N/A



# 1500 -DESIGN ELEC. RATING - 789 ----- HEX. DEPEND. CAP. - 769 (100%) 1000 HOC ORN BE EXCEEDED UNDER OPTIMAL CONDITIONS PERCENT MDC 80 500 60 40

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15 DAYS SEPTEMBER 1984

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PAGE 2-246

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Report	Period SI	EP 19	84		UN	IT	sнu	тром	NS / R	E D U C T I O N S ***********************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-18	09/01/84	s	0.0	F	5			ZZ	ZZZZZZ	REDUCED LOAD TO 500 MWE PER LOAD DISPATCHER.
84-19	09/08/84	s	0.0	В	5			НА	TURBIN	REDUCED LOAD TO PERFORM WEEKLY TURBINE TESTS.
84-20	09/13/84	s	0.0	н	5			нн	PUMPXX	REDUCED LOAD FOR CONDENSATE PUMP CHANGEOVER.
84-21	09/14/84	F	0.0	н	5			MB	RECOMB	REDUCED LOAD DUE TO RECOMBINER PROBLEMS.
84-22	09/18/84	s	0.0	F	5			ZZ	ZZZZZZ	REDUCED LOAD PER LOAD DISPATCHER.
84-23	09/21/84	S	0.0	В	5			RB	CONROD	REDUCED LOAD FOR NUCLEAR ENGINEER TEST AND SPECIAL ROD MANEUVER.
84-24	09/30/84	s	0.0	В	5			НА	TURBIN	REDUCED LOAD TO PERFORM WEEKLY TURBINE TESTS.

τ.

Type	Reason	Method	d System & Component	
F-Forced S-Sched	B-Maint or Test G-0	ther 3-Auto tion 4-Cont 5-Redu	ual Scram Instructions for o Scram Preparation of tinued Data Entry Sheet uced Load Licensee Event Repor	

#### FACILITY DESCRIPTION

LOCATION

STATE.....ILLINOIS

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

#### FACILITY DATA

UTILITY & CONTRACTOR INFORMATION

UTILITY COMMONUEALT

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

LICENSE & DATE ISSUANCE.... DPR-29, DECEMBER 14, 1972

PUBLIC DOCUMENT ROOM.....MOLINE PUBLIC LIBRARY 504 17TH STREET MOLINE, ILLINOIS 61265

#### INSPECTION SUMMARY

INSPECTION ON JULY 30 T. ROUGH AUGUST 3, (84-13): ROUTINE, UNANNOUNCED INSPECTION OF RADIOACTIVE WASTE MANAGEMENT PROGRAMS, INCLUDING SOLID RADIOACTIVE WASTES, LIQUIDS AND LIQUID RADIOACTIVE WASTES, GASEOUS RADIOACTIVE WASTES, AND TRANSPORTATION OF RADIOACTIVE MATERIALS. ALSO REVIEWED WERE PAST OPEN ITEMS AND AN INQUIRY FROM AN ATTORNEY REPRESENTING A FORMER CONTRACTOR EMPLOYEE. THE INSPECTION INVOLVED 36 INSPECTOR-HOURS ON SITE BY ONE NRC INSPECTOR. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B, SECTION XII, AS IMPLEMENTED BY COMMONWEALTH EDISON TOPICAL REPORT CE-1-A AND QUALITY ASSURANCE PROCEDURE 12-51 REVISION 5, REQUIRES INSTRUMENTS THAT ARE UTILIZED IN ACTIVITIES AFFECTING QUALITY TO BE PROPERLY CALIBRATED AND ADJUSTED AT SPECIFIED PERIODS TO MAINTAIN ACCURACY WITHIN NECESSARY LIMITS. SECTION II EXPLAINS THAT SUCH ACTIVITIES OF THE QUALITY ASSURANCE PROGRAM SHALL BE ACCOMPLISHED TO AN EXTENT CONSISTENT WITH THE COMPONENT'S IMPORTANCE TO SAFETY. CONTRARY TO THE ABOVE, TWO SAFETY RELATED PRESSURE SWITCHES WHICH PROVIDE FOR FAIL-SAFE DAMPER OPERATION UPON LOSS OF INSTRUMENT AIR PRESSURE WERE FOUND ON JULY 3, 1984, BY THE RESIDENT INSPECTORS TO NOT HAVE BEEN CALIBRATED SINCE 1978 AS A RESULT OF NOT BEING ON THE SAFETY RELATED CALIBRATION LIST. THE PRESSURE SWITCHES ARE ASSOCIATED WITH THE INLET DAMPERS OF THE STANDBY GAS TREATMENT SYSTEM. SUBSEQUENTLY, THE LICENSEE IDENTIFIED EIGHT MORE PRESSURE SWITCHES ASSOCIATED WITH REACTOR BUILDING VENTILATION ISOLATION VALVES THAT HAD NOT INSTALLATION RECORDS.

FAGE 2-248

#### Report Period SEP 1984

#### ENFORCEMENT SUMMARY

(8411 4)

10 CFR 50, APPENDIX R, PARAGRAPH M STATES THAT PENETRATION SEAL DESIGNS SHALL UTILIZE ONLY NONCOMBUSTIBLE MATERIALS AND SHALL BE QUALIFIED BY TESTS THAT ARE COMPARABLE TO TESTS USED TO RATE FIRE BARRIERS. CONTRARY TO THE ABOVE, ONE PENETRATION WAS FOUND BY THE RESIDENT INSPECTORS TO CONTAIN MATERIAL THAT WAS NOT QUALIFIED BY TESTS COMPARABLE TO TESTS USED TO RATE FIRE BARRIERS. (8411 5)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS OPERATING NORMALLY.

LAST IE SITE INSPECTION DATE: OCTOBER 7 - NOVEMBER 10, 1984

INSPECTION REPORT NO: 84-21

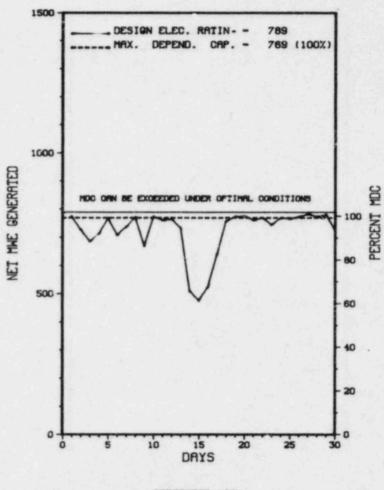
## REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-02	03/07/84	09/04/84	LEAK RATE FROM ALL VALVES & PENETRATION IN EXCESS OF TECHNICAL SPECIFICATIONS
84-04	03/16/84	09/04/84	UNIT ONE MAIN STEAM ISOLATION VALVES FAILED LOCAL LEAK RATE TESTS
84-05	04/14/84	08/23/84	LINEAR INDICATIONS ON REACTOR RECIRCULATION SYSTEM WELDS
4-07	05/07/84	08/14/84	RHR SERVICE WATER VAULT PENETRATIONS WERE FOUND TO LEAK
4-13	08/08/84	09/06/84	REACTOR SCRAM AND ECCS INITIATION FROM FALSE SIGNAL
4-15	08/25/84	09/20/84	REACTOR SCRAM
4-16	08/28/84	09/26/84	REACTOR SCRAM ON SPURTOUS MAIN STEAM LINE HIGH FLOW SIGNAL
4-17	08/16/84	09/14/84	SOUTH STEAM JET AIR EJECTOR VALVES INCORRECTLY INSTALLED

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1.	Docket: 50-265	OPERA	TINGS	TATUS
2.	Reporting Period:	84 Outag	e + On-line	Hrs: 720.0
3.	Utility Contact: DAVE KI	MLER (309)	654-2241 X	192
4.	Licensed Thermal Power (M	Wt):		2511
5.	Nameplate Rating (Gross M	We):	920 X	0.9 = 828
6.	Design Electrical Rating	(Net MWe):		789
7.	Maximum Dependable Capaci	ty (Gross I	MWe):	813
8.	Maximum Dependable Capaci	ty (Net MW	e):	769
9.	If Changes Occur Above Si NONE	nce Last Ri	eport, Give	Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	We):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	
13.	Hours Reactor Critical	720.0	5,013.8	82,931.4
14.	Rx Reserve Shtdwn Hrs			2,985.8
15.	Hrs Generator On-Line	720.0	4,896.9	80,106.7
16.	Unit Reserve Shtdwn Hrs	. 0		702.9
17.	Gross Therm Ener (MWH)	1,681,897	11,531,787	166,913,875
18.	Gross Elec Ener (MWH)		3,716,842	53, 152,600
19.	Net Elec Ener (MWH)	520,037	3,543,491	49,878,365
20.	Unit Service Factor	100.0	74.5	74.4
21.	Unit Avail Factor	100.0	74.5	75.0
22.	Unit Cap Factor (MDC Net)	93.9	70.1	60.2
23.	Unit Cap Factor (DER Net)	91.5	68.3	58.7
24.	Unit Forced Outage Rate	0	3.4	8.3
25.	Forced Outage Hours		170.2	3,360.3
26.	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,D	)uration):
7	If Currently Shutdown Est	implad \$1	tue Date:	N/A

AVERAGE DAILY POWER LEVEL (MWe) PLOT



SEPTEMBER 1984

UNIT SHUTDOWNS / REDUCTIONS \*

Cause & Corrective Action to Prevent Recurrence No. Date Type Hours Reason Method LER Number System Component 5 HA TURBIN REDUCED LOAD TO PERFORM WEEKLY TURBINE TESTS. 84-35 09/02/84 S 0.0 B S F 5 ZZ ZZZZZZ REDUCED LOAD PER LOAD DISPATCHER. 84-36 09/03/84 0.0 5 HA TURBIN REDUCED LOAD TO PERFORM TURBINE NIGHTLY TEST AND 84-37 09/03/84 5 0.0 B MSIV BI-WEEKLY TEST. ZZZZZZ REDUCED LOAD PER LOAD DISPATCHER AND EGC TESTING. 84-38 09/06/84 S 0.0 F 5 ZZ ZZZZZZ REDUCED LOAD FOR ECONOMIC GENERATION CONTROL SYSTEM TEST. ZZ 84-39 09/07/84 S 0.0 B 5 84-40 09/08/84 S 5 HA TURBIN REDUCED LOAD TO PERFORM WEEKLY TURBINE TESTS. 0.0 B PUMPXX REDUCED LOAD TO PLACE 2B CIRCULATING WATER PUMP 84-41 09/13/84 H 5 HF S 0.0 OUT OF SERVICE. REDUCED LOAD TO PLACE REACTOR IN HOT STANDBY, TURN OFF 84-42 09/14/84 5 0.0 B 5 HA TURBIN GENERATOR, AND PERFORM TURBINE OVERSPEED TESTS. 84-43 09/19/84 F н 5 SF VALVEX REDUCED LOAD DUE TO PROBLEMS WITH HPCI 2301-4 VALVE. 0.0 TURBIN REDUCED LOAD TO PERFORM WEEKLY TURBINE TESTS. 5 HA 84-44 09/23/84 S 0.0 В 84-45 09/30/84 0.0 B 5 HA TURBIN REDUCED LOAD TO PERFORM WEEKLY TURBINE TESTS. S

\*\*\*\*\*\*\*\*\*\* QUAD CITIES 2 EXPERIENCED SEVERAL POWER REDUCTIONS IN SEPTEMBER AS DESCRIBED ABOVE.

Туре	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)

Report Period SEP 1984

#### FACILITY DESCRIPTION

#### FACILITY DATA

#### 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

TURBINE SUPPLIER.....GENERAL ELECTRIC

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....A. MADISON

LICENSING PROJ MANAGER.....R. BEVAN DOCKET NUMBER......50-265

LICENSE & DATE ISSUANCE.... DPR-30, DECEMBER 14, 1972

PUBLIC DOCUMENT ROOM.....MOLINE PUBLIC LIBRARY 504 17TH STREET MOLINE, ILLINOIS 61265

#### INSPECTION SUMMARY

INSPECTION ON JULY 30 THROUGH AUGUST 3, (84-11): ROUTINE, UNANNOUNCED INSPECTION OF RADIOACTIVE WASTE MANAGEMENT PROGRAMS, INCLUDING SOLID RADIOACTIVE WASTES, LIQUIDS AND LIQUID RADIOACTIVE WASTES, GASEOUS RADIOACTIVE WASTES, AND TRANSPORTATION OF RADIOACTIVE MATERIALS. ALSO REVIEWED WERE PAST OPEN ITEMS AND AN INQUIRY FROM AN ATTORNEY REPRESENTING A FORMER CONTRACTOR EMPLOYEE. THE INSPECTION INVOLVED 36 INSPECTOR-HOURS ON SITE BY ONE NRC INSPECTOR. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B, SECTION XII, AS IMPLEMENTED BY COMMONWEALTH EDISON TOPICAL REPORT CE-1-A AND QUALITY ASSURANCE PROCEDURE 12-51 REVISION 5, REQUIRES INSTRUMENTS THAT ARE UTILIZED IN ACTIVITIES AFFECTING QUALITY TO BE PROPERLY CALIBRATED AND ADJUSTED AT SPECIFIED PERIODS TO MAINTAIN ACCURACY WITHIN NECESSARY LIMITS. SECTION II EXPLAINS THAT SUCH ACTIVITIES OF THE QUALITY ASSURANCE PROGRAM SHALL BE ACCOMPLISHED TO AN EXTENT CONSISTENT WITH THE COMPONENT'S IMPORTANCE TO SAFETY. CONTRARY TO THE ABOVE, TWO SAFETY RELATED PRESSURE SWITCHES WHICH PROVIDE FOR FAIL-SAFE DAMPER OPERATION UPON LOSS OF INSTRUMENT AIR PRESSURE WERE FOUND ON JULY 3, 1984, BY THE RESIDENT INSPECTORS TO NOT HAVE BEEN CALIBRATED SINCE 1978 AS A RESULT OF NOT BEING ON THE SAFETY RELATED CALIBRATION LIST. THE PRESSURE SWITCHES ARE ASSOCIATED WITH THE INLET DAMPERS OF THE STANDBY GAS TREATMENT SYSTEM. SUBSEQUENTLY, THE LICENSEE IDENTIFIED EIGHT MORE PRESSURE SWITCHES ASSOCIATED WITH REACTOR BUILDING VENTILATION ISOLATION VALVES THAT HAD NOT BEEN PLACED ON THE SAFETY RELATED CALIBRATION LIST AND FOR WHICH NO CALIBRATION DATA COULD BE FOUND OTHER THAN ORIGINAL INSTALLATION RECORDS.

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Report Period SEP 1984

#### ENFORCEMENT SUMMARY

(8410 4)

10 CFR 50, APPENDIX R, PARAGRAPH M STATES THAT PENETRATION SEAL DESIGNS SHALL UTILIZE ONLY NONCOMBUSTIBLE MATERIALS AND SHALL BE QUALIFIED BY TESTS THAT ARE COMPARABLE TO TESTS USED TO RATE FIRE BARRIERS. CONTRARY TO THE ABOVE, ONE PENETRATION WAS FOUND BY THE RESIDENT INSPECTORS TO CONTAIN MATERIAL THAT WAS NOT QUALIFIED BY TESTS COMPARABLE TO TESTS USED TO RATE FIRE BARRIERS. (8410 5)

```
OTHER ITEMS
```

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS OPERATING NORMALLY.

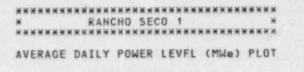
LAST IE SITE INSPECTION DATE: OCTOBER 7 - NOVEMBER 10, 1984

INSPECTION REPORT NO: 84-19

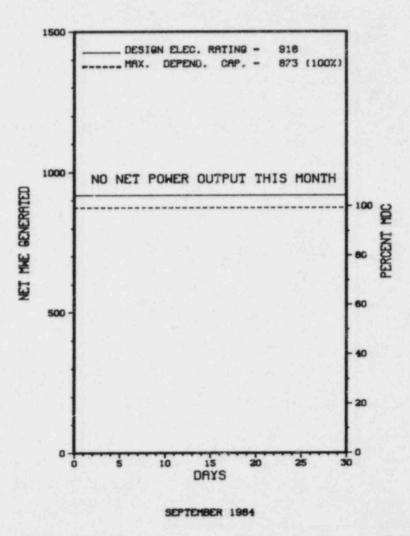
#### REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-07	06/10/84	08/30/84	UNIT SCRAM CAUSED BY #4 TURBINE CONTROL VALVE FAST CLOSURE
84-09	08/05/84	08/28/84	REACTOR SCRAM

1.	Docket: 50-312 0	PERAT	ING S	TATUS
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: RON_COLO	MBO (916)	452-3211	
4.	Licensed Thermal Power (MW	t):		2772
5.	Nameplate Rating (Gross MW	e):	1070 X	0.9 = 963
6.	Design Electrical Rating (	Net MWe):		918
7.	Maximum Dependable Capacit	y (Gross M	We):	917
8.	Maximum Dependable Capacit	y (Net MWe	):	873
9.	If Changes Occur Above Sin NONE	ce Last Re	port, Give	Reasons:
105	Power Level To Which Restr Reasons for Restrictions, NONE	If Any:	Construction of the	
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 82,896.0
13.	Hours Reactor Critical	. 0	3,992.8	48,344.4
14.	Rx Reserve Shtdwn Hrs	. 0	790.9	10,104.7
15.	Hrs Generator On-Line	. 0	3,841.4	46,383.6
16.	Unit Reserve Shtdwn Hrs	. 0		1,210.2
17.	Gross Therm Ener (MWH)	0	9,297,562	115,208,904
18.	Gross Elec Ener (MWH)	0	3,104,302	38,500,374
19.	Net Elec Ener (MWH)	0	2,898,041	36,272,365
20.	Unit Service Factor	. 0	58.4	56.0
21.	Unit Avail Factor	. 0	58.4	57.4
22.	Unit Cap Factor (MDC Net)	. 0	50.5	50.1
23.	Unit Cap Factor (DER Net)	. 0	48.0	47.7
24.	Unit Forced Outage Rate	100.0	41.6	29.3
25.	Forced Outage Hours	720.0	2,733.6	19,143.6
	Shutdowns Sched Over Next REFUELING - JANUARY 1985,			
-	If Currently Shutdown Esti			10/07/84



## RANCHO SECO 1



Report	Period SI	EP 19	84		UN	IT	SНU	TD	0 1	J N	s		R E	D	u c	T	I	• •	NS	×		F	ANCH	SEC	0 1	******		*
No.	Date	Type	Hours	Reason	Method	LER	Number	Sv	ster	Ē	ompo	onen	Ξ			Cau	JSe	8	Corre	ect	ive	Actio	on to	Prev	ent	Recurr	ence	
9	08/31/84	F	720.0	A	4				CI		HTE	хсн		B**	OTS	GI	TUB	εı	LEAK	AND	HIG	H IOI	INE I	EVEL				

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)

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

FACILITY DATA

## UTILITY & CONTRACTOR INFORMATION

UTILITY

SACRAMENTO, CALIFORNIA 95813

ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER... BABCOCK & WILCOX

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE ..... V

IE RESIDENT INSPECTOR.....J. ECKHARD

LICENSING PROJ MANAGER.....S. MINER DOCKET NUMBER......50-312

LICENSE & DATE ISSUANCE.... DPR-54, AUGUST 16, 1974

PUBLIC DOCUMENT ROOM......BUSINESS AND MUNICIPAL DEPARTMENT SACRAMENTO CITY - COUNTY LIBRARY 828 I STREET SACRAMENTO, CALIFORNIA 95814

#### INSPECTION SUMMARY

+ INSPECTION ON JUNE 26 - SEPTEMBER 21, 1984 (REPORT NO. 50-312/84-14) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

\* INSPECTION ON JULY 23-27, 1984 (REPORT NO. 50-312/84-17) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON JULY 19 - AUGUST 24, 1984 (REPORT NO. 50-312/84-19) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

INSPECTION STATUS

+ INSPECTION ON SEPTEMBER 10-14, 1984 (REPORT NO. 50-312/84-20) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON SEPTEMBER 11 - OCTOBER 1, 1984 (REPORT NO. 50-312/84-21) AREAS INSPECTED: SAFETY/SECURITY INTERFACE, SECURITY EVENT FOLLOWUP AND FOLLOWUP OF PREVIOUS INSPECTION FINDINGS. THE INSPECTION INVOLVED 246 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS AND THREE CONSULTANTS.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON SEPTEMBER 4-7, 1984 (REPORT NO. 50-312/84-22) AREAS INSPECTED: UNANNOUNCED, INSPECTION BY A REGIONAL INSPECTOR OF THE IMPLEMENTATION OF THE RANCHO SECO UNIT 1 FIRE PROTECTION PROGRAM. THE INSPECTION INVOLVED 72 INSPECTOR-HOURS ONSITE BY ONE NRC INSPECTOR.

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### Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

RESULTS: OF THE AREAS EXAMINED, THREE VIOLATIONS AND ONE DEVIATION WERE IDENTIFIED. ONE VIOLATION WAS IN THE AREA OF FIRE BRIGADE TRAINING, ON WAS IN THE AREA OF STORAGE OF COMBUSTIBLES AND THE THIRD WAS IN THE AREA COMBINED TRAINING WITH THE HERALD FIRE DEPARTMENT. ONE DEVIATION IN THE AREA OF ASSESSMENT OF FIRE ALARM EFFECTIVENESS WAS IDENTIFIED.

- + INSPECTION ON AUGUST 30 SEPTEMBER 28, 1984 (REPORT NO. 50-312/84-23) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON SEPTEMBER 24-28, 1984 (REPORT NO. 50-312/84-24) REPORT CANCELLED.
- + INSPECTION ON SEPTEMBER 28, 1984 (REPORT NL. 50-312/84-25) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

#### ENFORCEMENT SUMMARY

AS A RESULT OF THE INSPECTION CONDUCTED BETWEEN 4/27 AND 6/15/84, AND IN ACCORDANCE WITH NRC ENFORCEMENT POLICY 10 CFR PART 2, APPENDIX C, THE FOLLOWING VIOLATION WAS IDENTIFIED: TECHNICAL SPECIFICATION TABLE 4.1-1, "INSTRUMENT SURVEILLANCE REQUIREMENTS," REQUIRES IN PART THAT A "HEAT BALANCE CALIBRATION" OF THE POWER RANGE AMPLIFIER BE PERFORMED "WHENEVER INDICATED NEUTRON POWER AND CORE THERMAL POWER DIFFER BY MORE THAN 2 PERCENT AND DAILY DURING NONSTEADY-STATE OPERATION." RANCHO SECO PLANT MAINTENANCE PROCEDURE I-103, REV. 6, "POWER RANGE CALIBRATION," PARA. 6.1.3, REQUIRES IN PART "RECALIBRATIONS FOR ALL CHANNELS NOT MEETING THE FOLLOWING TOLERANCES: "NI CHANNEL POWER EQUALS PERCENT FULL POWER PLUS OR MINUS 2.0 PERCENT..." RANCHO SECO PLANT OPERATIONS PROCEDURE B.3, REV. 15, "NORMAL OPERATIONS," PARA. 3.25 UNDER LIMITS AND PRECAUTIONS REQUIRES THAT "WHEN A HEAT BALANCE IS PERFORMED, VERIFY THAT THE POWER RANGE NI INDICATES WITHIN 2 PERCENT OF CALCULATED VALUE." ON 4/25-26/84, THE NEUTRON POWER AS INDICATED ON POWER RANGE CHANNELS NI 5,6,7 AND 8 WAS GREATER THAN THE CORE THERMAL POWER BY MORE THAN 2 PERCENT. DURING THIS PERIOD, POWER LEVEL WAS BEING INCREASED FROM 0 PERCENT POWER OCCURRED AT A POWER LEVEL OF APPROXIMATELY 30 PERCENT. THE DEVIATION OF APPROXIMATELY 4 PERCENT BETWEEN INDICATED AND THERMAL POWER OCCURRED AT A POWER LEVEL OF APPROXIMATELY 30 PERCENT. THE DEVIATION OF THEN STEADILY DECREASED SUCH THAT AT 92 PERCENT POWER, INDICATED AND THERMAL POWER WERE THE SAME VALUE. CONTRARY TO THE REQUIREMENTS, NO CALIBRATIONS OF THE POWER RANGE NUCLEAR INSTRUMENTS WERE PERFORMED DURING THIS PERIOD.

DESIGN CALCULATIONS FOR THE AUXILIARY FEEDWATER ORIFICE PLATES WERE NOT SUBJECT TO THE CALCULATION CHECKING, REVIEW AND APPROVAL PROCESS REQUIRED BY 10 CFR 50, APPENDIX B, CRITERION III AND ENGINEERING PROCEDURE EPD-4.37, "DESIGN CALCULATIONS." (8415 4)

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OTHER ITEMS
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SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

INSPECTION STATUS - (CONTINUED)

#### OTHER ITEMS

+ THE PLANT REMAINED SHUTDOWN UNTIL AUGUST 16, 1984 FOR REPAIR OF LEAKS IN THE "B" OTSG AND SWAGELOK FITTING PROBLEMS. THE PLANT REACHED 92 PERCENT POWER ON AUGUST 19 AND REMAINED THERE THROUGH AUGUST 24, 1984. AFTER REDUCING POWER TO 40 PERCENT, THE PLANT SHUTDOWN ON AUGUST 31, 1984 DUE TO HIGH RCS IODINE ACTIVITY AND A SMALL LEAK IN "B" OTSG.

LAST IE SITE INSPECTION DATE: 09/11-10/1/84+

INSPECTION REPORT NO: 50-312/84-21+

#### REPORTS FROM LICENSEE

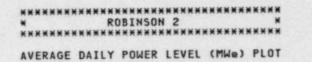
NUMBER DATE OF DATE OF SUBJECT EVENT REPORT

NONE

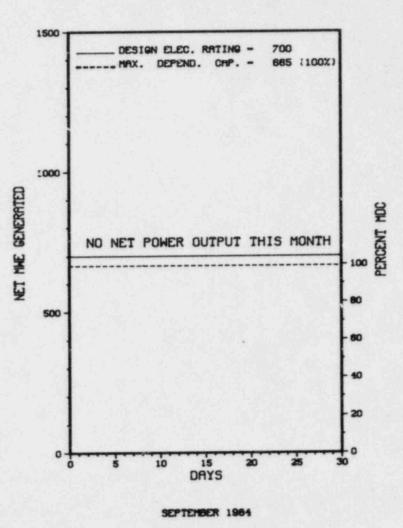
PAGE 2-261 THIS PAGE INTENTIONALLY LEFT BLANK 1 4 N.

1. Docket: 50-261	OPERAT	ING S	TATUS					
2. Reporting Period: _	09/01/84 Outage	+ On-line	Hrs: 720.0					
3. Utility Contact:	. E. SCOTT (803) 3	83-4524						
4. Licensed Thermal Po	2300							
5. Nameplate Rating (C	Nameplate Rating (Gross MWe):							
	Design Electrical Rating (Net MWe):							
7. Maximum Dependable	Maximum Dependable Capacity (Gross MWe							
8. Maximum Dependable	Maximum Dependable Capacity (Net MWe):							
9. If Changes Occur Ab	ove Since Last Rep	oort, Give	Reasons:					
NONE								
10. Power Level To Which	h Restricted, If /	ny (Net M	le):					
11. Reasons for Restric	tions, If Any:							
NONE								
12. Report Period Hrs	MONTH 720.0		CUMULATIVE 119,021.0					
13. Hours Reactor Criti	cal0	616.1	84,196.8					
14. Rx Reserve Shtdwn H	irs0		1,675.5					
15. Hrs Generator On-Li	ine0	615.8	82,065.9					
16. Unit Reserve Shtdwr	Hrs0	0	23.2					
17. Gross Therm Ener (M	1WH)0	783,895	162,875,180					
18. Gross Elec Ener (MM	0 (H	246,010	52,344,876					
19. Net Elec Ener (MWH)	-5,130	205,183	49,424,80					
20. Unit Service Factor	.0	9.4	69.0					
21. Unit Avail Factor		9.4	69.1					
22. Unit Cap Factor (M)	DC Net)0	4.7	62.0					
23. Unit Cap Factor (D)								
24. Unit Forced Outage								
25. Forced Outage Hour								
26. Shutdowns Sched Ov NONE	er Next 6 Months (	Type,Date,						
27 If Currently Shutd			10/25/84					

S.







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Report	Period SI	EP 19	84		UN	IT	SHU	TDOW	NS / R	EDUCTI	O N	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause	8 0	orrective Action to Prevent Recurrence
0901	01/26/84	5	720.0	с	4			CJ	HTEXCH	CONTINUATION OUTAGE.	OF	REFUELING AND STEAM GENERATOR REPLACEMENT

\*\*\*\*\*\*\*\*\*\* ROBINSON 2 REMAINS IN AN EXTENDED OUTAGE FOR REFUELING AND STEAM GENERATOR REPLACEMENT. \* SUMMARY \* \*\*\*\*\*\*

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)		

1

PAGE 2-263

2

\*\*\*\*\*\* **ROBINSON 2** \*\*\*\*\*\*\*\*\*\*

#### FACILITY DESCRIPTION

LOCATION 

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

FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

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.....S. WEISE

LICENSING PROJ MANAGER.....G. REQUA 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 SUMMARY

+ INSPECTION JULY 30 - AUGUST 3 (84-28): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 31 INSPECTOR-HOURS ON SITE IN THE AREA OF EMERGENCY PREPAREDNESS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 21-23 (84-29): THIS ROUTINE UNANNOUNCED INSPECTION INVOLVED 125 INSPECTOR-HOURS ON SITE IN THE AREA OF AN EMERGENCY EXERCISE. OF THE AREAS INSPECTED NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION STATUS

INSPECTION AUGUST 11 - SEPTEMBER 10 (84-30): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED 107 RESIDENT INSPECTOR-HOURS ON SITE IN THE AREAS OF TECHNICAL SPECIFICATION COMPLIANCE, PLANT TOUR, OPERATIONS PERFORMANCE, REPORTABLE OCCURRENCES, HOUSEKEEPING, SITE SECURITY, SURVEILLANCE ACTIVITIES, MAINTENANCE ACTIVITIES, QUALITY ASSURANCE PRACTICES, RADIATION CONTROL ACTIVITIES, OUTSTANDING ITEMS REVIEW, IE BULLETIN AND NOTICE FOLLOWUP, ORGANIZATION AND ADMINISTRATION, ENFORCEMENT ACTION FOLLOWUP AND OBSERVATION AND EVALUATION OF EMERGENCY EXERCISES. OF THE 15 AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

INSPECTION AUGUST 9-10 (84-31): THIS SPECIAL UNANNOUNCED INSPECTION INVOLVED & INSPECTOR-HOURS ON SITE DURING REGULAR HOURS INSPECTING CORRECTIVE ACTIONS TAKEN BY THE LICENSEE TO CONTROL ACCESS TO LOCKED HIGH RADIATION AREAS. A SECOND EXAMPLE OF A PREVIOUSLY CITED VIOLATION WAS IDENTIFIED RELATED TO IMPROPER CONTROLS OVER ENTRY INTO A LOCKED HIGH RADIATION AREA.

INSPECTION SEPTEMBER 11-14 (84-34): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 26 INSPECTOR-HOURS ON SITE IN THE AREAS OF RCS HYDROSTATIC TEST PROCEDURE REVIEW, RCS HYDROSTATIC TEST WITNESSING, SNUBBER SURVEILLANCE PROGRAM AND PLANT TOUR. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

PAGE 2-264

Report Period SEP 1984

RELIABILITY COUNCIL

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

\*\*\*\*\*\*\*\*\*\* ROBINSON 2 × \*

INSPECTION SUMMARY

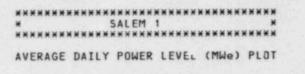
## ENFORCEMENT SUMMARY

NONE

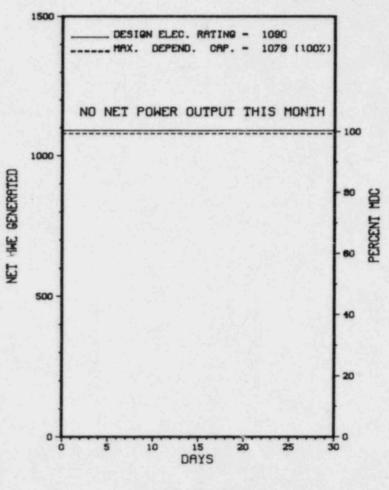
## OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:
NONE.
FACILITY ITEMS (PLANS AND PROCEDURES):
NONE.
MANAGERIAL ITEMS:
NONE.
PLANT STATUS:
SHUTDOWN FOR STEAM GENERATORS TUBE BUNDLE REPLACEMENT.
LAST IE SITE INSPECTION DATE: SEPTEMBER 11-14, 1984 +
INSPECTION REPORT ND: 50-261/84-34 +
REPORTS FROM LICENSEE
NUMBER DATE OF DATE OF SUBJECT EVENT REPORT
NONE.

1.	Docket: <u>50-272</u> 0	PERAT	INGS	TATUS
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: P. RO	NAFALVY (6	09) 935-600	0 X4455
4.	Licensed Thermal Power (MW	t):		3338
5.	Nameplate Rating (Gross MW	0.9 = 1170		
6.	Design Electrical Rating (	Net MWe):		1090
7.	Maximum Dependable Capacit	1124		
8.	Maximum Dependable Capacit	1079		
	If Changes Occur Above Sin NONE		port, Give	Reasons:
	Power Level To Which Restr		Any (Net MW	le):
	Reasons for Restrictions,			
	NONE			
	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical	. 0	1,237.6	34,388.8
14.	Rx Reserve Shtdwn Hrs	. 0	54.5	3,088.4
15.	Hrs Generator On-Line	. 0	1,197.8	32,975.5
16.	Unit Reserve Shtdwn Hrs	. 0	.0	(
17.	Gross Therm Ener (MWH)	0	3,800,023	99,621,600
18.	Gross Elec Ener (MWH)	0	1,281,380	32,894,278
19.	Net Elec Ener (MWH)	-10,750	1,190,786	31, 162, 098
20.	Unit Service Factor	. 0	18.2	51.8
21.	Unit Avail Factor		18.2	51.8
22.	Unit Cap Factor (MDC Net)	. 0	16.8	45.4
23.	Unit Cap Factor (DER Net)	. 0	16.6	45.0
24.	Unit Forced Outage Rate	100.0	71.6	34.0
25.	Forced Outage Hours	720.0	3,026.2	17,249.
26.	Shutdowns Sched Over Next NONE			
	If Currently Shutdown Esti	mated Star	tuo Date:	10/13/84



SALEM 1



SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	ΙT	SHU	TDOW	NS	/ R	E	DU	c	τI	0	NS	* SALEM 1 * ***********	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Compo	nent	_		C	aus	e 8	Co	rrective Action to Prevent Recurrence	1
84-176	07/09/84	F	720.0	A	4			HA	GENE	RA							COOLING SYSTEM, NUCLEAR SERVICE WATER THER CONTROL ROD DRIVE PROBLEMS.	

Туре	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)		

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\*\*\*\* SALEM 1 \*\*\*\*\*\* 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

## FACILITY DATA

Report Period SEP 1984

## UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....PUBLIC SERVICE ELECTRIC & GAS

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

LICENSE & DATE ISSUANCE.... DPR-70, DECEMBER 1, 1976

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PUBLIC DOCUMENT ROOM......SALEM FREE PUBLIC LIBRARY 112 WEST BROADWAY SALEM, NEW JERSEY 08079

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENTS: NO INPUT PROVIDED. FACILITY ITEMS (PLANS AND PROCEDURES): NO INPUT PROVIDED.

INSPECTION STATUS - (CONTINUED)

OTHER ITEMS

MANAGERIAL IT	TEMS :												
NO INPUT PROV	VIDED.												
PLANT STATUS	•												
NO INPUT PROV	VIDED.												
LAST IE SITE	INSPECTI	M DATE: N	O INPUT PR	DVIDED.									
INSPECTION RE	EPORT NO:	NO INPUT	PROVIDED.										
				REPO	RTS	FROM	LIC	ENSE	E				
									*******	========	 	=======	======
NUMBER I	DATE OF EVENT	DATE OF REPORT	SUBJECT								 		

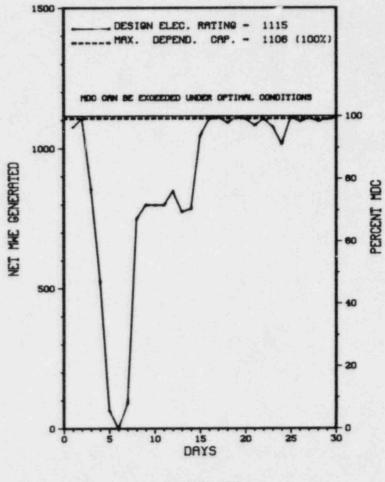
NO INPUT PROVIDED.

PAGE 2-269

1.	Docket: 50-311	DPERAT	ING S	TATUS						
2.	Reporting Period: _09/01/2	84 Outage	+ On-line	Hrs: 720.0						
3.	Utility Contact: J. P. R	DNAFALVY (6	09) 935-600	0 X4455						
4.	Licensed Thermal Power (MWt):									
	Nameplate Rating (Gross M									
6.	Design Electrical Rating	(Net MWe):	_	1115						
7.	Maximum Dependable Capaci	ty (Gross M	We):	1149						
8.	Maximum Dependable Capacit	ty (Net MWe	):	1106						
	If Changes Occur Above Sin NONE	nce Last Re	port, Give	Reasons:						
10.	Power Level To Which Rest	ricted, If	Any (Net Mk	le):						
11.	Reasons for Restrictions, NONE									
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 26,016.0						
13.	Hours Reactor Critical	673.9	3,304.8	15,013.3						
14.	Rx Reserve Shtdwn Hrs		1,443.0	3,533.6						
15.	Hrs Generator On-Line	658.4	3,113.6	14,530.9						
16.	Unit Reserve Shtdwn Hrs		.0	.0						
17.	Gross Therm Ener (MWH)	2,013,103	9,979,798	43,450,870						
18.	Gross Elec Ener (MWH)	671,470	3,315,030	14, 183, 320						
19.	Net Elec Ener (MWH)	640,930	3, 122, 253	13,439,504						
20.	Unit Service Factor	91.4	47.4	55.9						
21.	Unit Avail Factor	91.4	47.4	55.9						
22.	Unit Cap Factor (MDC Net)	80.5	42.9	46.7						
23.	Unit Cap Factor (DER Net)		42.6	46.3						
24.	Unit Forced Outage Rate	8.6	52.6	34.5						
25.	Forced Outage Hours	61.6	3,461.4	7,644.5						
	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,D	)uration):						
	If Currently Shutdown Est	imated Star	tup Date:	N/A						

******	*****	*****	******	*****	****
×		SALEM 2	2		×
******	*****	*****	******	*****	****
AVERAGE	DAILY	POWER	LEVEL	(MWe)	PLOT

SALEM 2



SEPTEMBER 1984

Repor	t Period S	EP 19	84		UN	τī	SHU	TDOW	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-24	2 09/03/84	F	0.0	A	5			СН	INSTRU	FEEDWATER PUMP LOCAL CONTROLS.
84-24	4 09/03/84	F	0.0	A	5			СН	INSTRU	FEEDWATER PUMP LOCAL CONTROLS.
84-24	6 09/03/84	F	0.0	A	5			СН	INSTRU	FEEDWATER PUMP LCCAL CONTROLS.
84-24	8 09/03/84	F	0.0	A	5			СН	INSTRU	FEEDWATER PUMP LOCAL CONTROLS.
84-25	0 09/04/84	F	0.0	A	5			СН	INSTRU	FEEDWATER PUMP LOCAL CONTROLS.
84-25	2 09/05/84	F	61.6	A	3			СН	INSTRU	FEEDWATER PUMP LOCAL CONTROLS.
84-25	4 09/07/84	F	0.0	A	5			СН	INSTRU	FEEDWATER PUMP LOCAL CONTROLS.
84-25	6 09/07/84	F	0.0	A	5			нн	PUMPXX	CONDENSATE/HOTWELL PUMPS.
84-25	8 09/08/84	F	0.0	A	5			нн	PUMPXX	CONDENSATE/HOTWELL PUMPS.
84-26	0 09/08/84	F	0.0	A	5			нн	PUMPXX	CONDENSATE/HOTWELL PUMPS.
84-26	2 09/08/84	F	0.0	A	5			нн	PUMPXX	CONDENSATE/HOTWELL PUMPS.
84-28	8 09/24/84	s	0.0	В	5			нн	MOTORX	CONDENSATE/HOTWELL PUMP MOTOR.

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)

# FACILITY DESCRIPTION

ACTELLI 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

#### FACILITY DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE......PUBLIC SERVICE ELECTRIC & GAS

CONTRACTOR

ARCHITECT/ENGINEER.....PUBLIC SERVICES & GAS CO.

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

TURBINE SUPPLIER.....WESTINGHOUSE

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....T. LINVILLE

LICENSE & DATE ISSUANCE.... DPR-75, MAY 20, 1981

PUBLIC DOCUMENT ROOM......SALEM FREE PUBLIC LIBRARY 112 WEST BROADWAY SALEM, NEW JERSEY 08079

INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

\*\*\*\*\* \* SALEM 2 \*

# OTHER ITEMS

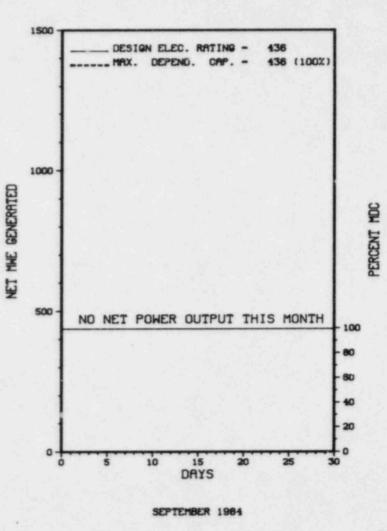
MANAGERIAL ITEMS:	
NO INPUT PROVIDED.	
PLANT STATUS:	
NO INPUT PROVIDED.	
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.	
INSPECTION REPORT NO: NO INPUT PROVIDED.	
REPORTS FROM LICENSEE	
	=
NUMBER DATE OF SUBJECT EVENT REPORT	
NO INPUT PROVIDED.	
	-
	-

1. 1	Docket: 50-206 0	PERAT	INGS	TATUS
2. 1	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0
3. 1	Utility Contact: L. I. MA	YWEATHER (	714) 492-1	700 X56223
4. 1	Licensed Thermal Power (MW	1f):		1347
5. 1	Nameplate Rating (Gross MW	le):	500 X (	9 = 450
6. 1	Design Electrical Rating (	Net MWe):		436
7. 1	Maximum Dependable Capacit	y (Gross MW	e):	456
8. 1	Maximum Dependable Capacit	y (Net MWe)		436
	If Changes Occur Above Sin	ice Last Rep	ort, Give	Reasons:
10. F	Power Level To Which Restr	icted, If A	ny (Net MU	le):
11. 6	Reasons for Restrictions,	If Any:		
	NONE			
12. 5	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
13. H	Hours Reactor Critical		. 0	88,440.8
14. F	Rx Reserve Shtdwn Hrs		. 0	0
15. H	Hrs Generator On-Line		. 0	84,821.9
16. L	Unit Reserve Shtdwn Hrs		. 0	0
17. (	Gross Therm Ener (MWH)	0	0	108,263,946
13. (	Gross Elec Ener (MWH)	0	0	36,906,434
19. 1	Net Elec Ener (MWH)	-945	-14,247	34,927,512
20. 1	Unit Service Factor		. 0	55.5
1. 1	Unit Avail Factor		. 0	55.9
22. 1	Unit Cap Factor (MDC Net)		. 0	52.8
23. 1	Unit Cap actor (DER Net)		. 0	52.8
24. 1	Unit Forced Outage Rate	. 0	. 0	21.9
25. 6	Forced Outage Hours		. 0	11,178.3
	Shutdowns Sched Over Next	6 Months (T	ype,Date,I	Duration):
	If Currently Shutdown Esti	mated Start	un Date:	11/23/84

d'

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SAN ONOFRE 1



PAGE 2-274

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Report	Period SEP 19	84		UN	τī	SHU	TDOW	NS / R	E D U C T I O N S * SAN ONOFRE 1 * *	
No.	Date Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence	-
78	02/27/82 S	720.0	В	4			ZZ	ZZZZZZ	EXTENDED OUTAGE TO ACCOMPLISH SEISMIC BACKFIT AND MISCELLANEOUS MAINTENANCE ITEMS.	

\*\*\*\*\*\*\*\*\*\* SAN ONDFRE 1 REMAINS SHUT DOWN FOR SEISMIC BACKFIT AND MISCELLANEOUS MAINTENANCE. \* SUMMARY \*

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)		

#### 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

### FACILITY DATA

### UTILITY & CONTRACTOR INFORMATION

UTILITY

CONTRACTOR ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

CONSTRUCTOR ..... BECHTEL

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....A. DANGELO

LICENSING PROJ MANAGER.....E. MCKENNA DOCKET NUMBER......50-206

LICENSE & DATE ISSUANCE.... DPR-13, MARCH 27, 1967

PUBLIC DOCUMENT ROOM.....SAN CLEMENTE BRANCH LIBRARY 242 AVENIDA DEL MAR SAN CLEMENTE, CALIFORNIA 92672 INSPECTION STATUS

#### INSPECTION SUMMARY

+ INSPECTION ON JUNE 11 - AUGUST 5, 1984 (REPORT NO. 50-206/84-14) AREAS INSPECTED: ROUTINE, MONTHLY RESIDENT INSPECTION OF OPERATION PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, LICENSEE EVENT REPORT REVIEW, MONTHLY MAINTENANCE ACTIVITIES, AND INDEPENDENT INSPECTION. THE INSPECTION INVOLVED 215 INSPECTOR-HOURS ONSITE BY FOUR NRC INSPECTORS. IN ADDITION, 240 INSPECTION HOURS WERE PERFORMED BY THREE NRC CONTRACTOR PERSONNEL ON SEISMIC MODIFICATIONS (INCLUDING PIPE SUPPORTS, ELECTRICAL TERMINATIONS AND CONNECTIONS, AND FOUNDATION PREPARATIONS) AND IE BULLETIN 82-04.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JULY 27 - SEPTEMBER 7, 1984 (REPORT NO. 50-206/84-19) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON AUGUST 6-17, 1984 (REPORT NO. 50-206/84-21) AREAS INSPECTED: THE UNANNOUNCED SAFETY INSPECTION CONSISTED OF A TECHNICAL REVIEW OF THE SAN ONOFRE UNIT 1 RETURN TO SERVICE HOT SAFE SHUTDOWN LARGE BORE PIPING SYSTEM STRESS ANALYSIS AND PIPE SUPPORT DESIGN WORK. THIS WORK WAS PERFORMED BY IMPELL CORPORATION AND BECHTEL LOS ANGELES POWER DIVISION WHILE UNDER CONTRACT TO SOUTHERN CALIFORNIA EDISON. THERE WAS ALSO A TECHNICAL REVIEW OF SOUTHERN CALIFORNIA EDISON'S ENGINEERING FOR SEISMIC UPGRADE AND TMI RELATED WORK ON THE AUXILIARY FEED SYSTEM DISCHARGE PIPING. CONCURRENTLY, A REVIEW OF LICENSEE AND CONTRACTOR QUALITY ASSURANCE PROGRAM DOCUMENTS AND IMPLEMENTATION, WITH RESPECT TO DESIGN AND DESIGN CONTROL, WAS PERFORMED. ALSO INCLUDED WERE OPEN ITEMS ON SIMILAR TOPICS FROM NRC INSPECTION REPORT 50-206/84-16. THE INSPECTION INVOLVED A TOTAL OF 134 INSPECTOR HOURS AT IMPELL'S WALNUT CREEK, CA. OFFICE; BECHTEL'S NORWALK, CA. OFFICE; AND EDISON'S ROSEMEAD, CA. OFFICE, BY ONE NRC INSPECTOR AND ONE NRC CONTRACTOR.

PAGE 2-276

#### Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON SEPTEMBER 4-7, 1984 (REPORT NO. 50-206/84-23) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON SEPTEMBER 18 - OCTOBER 30, 1984 (REPORT NO. 50-206/84-24) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

# ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B, CRITERION X, STATES IN PART: "A PROGRAM FOR INSPECTION OF ACTIVITIES AFFECTING QUALITY SHALL BE ESTABLISHED AND EXECUTED BY OR FOR THE ORGANIZATION PERFORMING THE ACTIVITY TO VERIFY CONFORMANCE WITH THE DOCUMENTED INSTRUCTIONS, PROCEDURES AND DRAWINGS FOR ACCOMPLISHING THE ACTIVITY..." SAN ONOFRE 1 DRAWING NO. 5166411-0 TITLED "TURBINE BUILDING SEISMIC UPGRADING GENERAL NOTES," UNDER WELDED CONNECTIONS NOTE NO. 3, STATES: "3. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS SPECIFICATION D1.1-80." AWS STRUCTURAL WELDING CODE, AWS D1.1-80, PARA. 8.15.1.5, STATES IN PART, "...IN NO ACCORDANCE WITH AWS SPECIFICATION D1.1-80." AWS STRUCTURAL WELDING CODE, AWS D1.1-80, PARA. 8.15.1.5, STATES IN PART, "...IN PTH CASE MAY UNDERCUT ON ONE SIDE BE GREATER THAN 1/16-INCH..." CONTRARY TO THE REQUIREMENTS, UNDERCUT EXCEEDING 1/16-INCH IN DEPTH (RANGING BETWEEN 3/32 AND 1/4-INCH) WAS FOUND ON 8 OF 39 WELDS ON THE FOLLOWING SAFETY-RELATED STRUCTURAL STEEL CONNECTIONS WHICH (RANGING BETWEEN 3/32 AND 1/4-INCH) WAS FOUND ON 8 OF 39 WELDS ON THE FOLLOWING SAFETY-RELATED STRUCTURAL STEEL CONNECTIONS WHICH WERE PART OF THE SEISMIC MODIFICATIONS TO THE NORTH AND SOUTH EXTENSIONS OF THE TURBINE BUILDING: 1. DIAGONAL P6-P7 DETAIL 8 WERE PART OF THE SEISMIC MODIFICATIONS TO THE NORTH AND SOUTH EXTENSIONS OF THE TURBINE BUILDING: 1. DIAGONAL P6-P7 DETAIL 8 UNCLVED TWO QUALITY CONTROL ENGINEERS AND HAD BEEN ACCEPTED BY QUALITY ASSURANCE ON 5/25-26/82. (8410 4)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

THE PLANT HAS REMAINED SHUTDOWN SINCE LATE FEBRUARY 1982, FOR SEISMIC UP-GRADING, TMI MODIFICATIONS, STEAM GENERATOR TUBE RE-EVALUATION, EMERGENCY CORE COOLING SYSTEM TESTS, AND ROUTINE MAINTENANCE. THESE PROJECTS ARE NEARING COMPLETION AND RESTART IS AWAITING NRC RESOLUTION OF THE SEISMIC ISSUE.

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

+ THE PLANT HAS BEEN IN COLD SHUTDOWN SINCE FEBRUARY 1982, FOR EXTENSIVE SEISMIC REWORK. IN JUNE 1983, THE LICENSEE SUBMITTED TO NRR DESCRIPTIONS OF TWO PLANS FOR SONGS UNIT 1 AS WELL AS AN INDICATION OF THE CONTINUING ACTIONS WHICH WILL BE TAKEN UNTIL THE RESUMPTION OF POWER OPERATION. GENERALLY, THE LICENSEE WILL CONTINUE WORK TO COMPLETE NECESSARY MODIFICATIONS AND MAINTAIN THE PLANT IN MODE 5 UNTIL MODIFICATIONS ARE COMPLETED. HOT FUNCTIONAL TESTS ARE SCHEDULED TO BEGIN ON OCTOBER 15, 1984 WITH CRITICALITY SCHEDULED FOR NOVEMBER 15, 1984.

LAST IE SITE INSPECTION DATE: 09/18-10/30/84+

\*\*\*\*\*\* SAN ONOFRE 1 × \*

INSPECTION REPORT NO: 50-206/84-24+

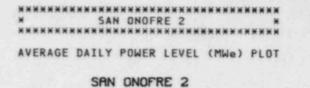
# REPORTS FROM LICENSEE

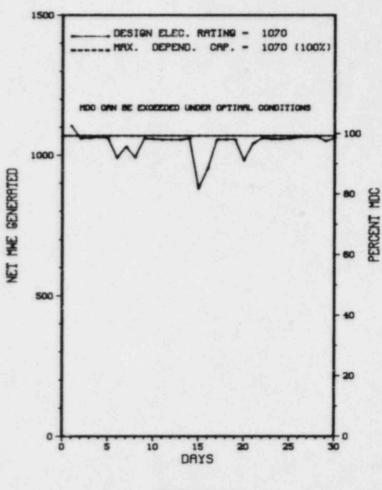
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
08-01-X4	08-01-84	08-01-84	UPDATE ON STATUS OF SMOKE AND FIRE DETECTORS
84-03-LO	03-27-84	04 26-84	NO. 1 BATTERY LESS THAN REQUIRED CAPACITY
84-04-LO	04-09-84	05-09-84	DIESEL GENERATOR NO. 2 NONCONFORMANCE
84-05-L0	06-01-84	07-02-84	LOSS OF BORIC ACID FLOW PATHS
84-07-L0	07-03-84	08-03-84	DELINQUENT PROCEDURE CHANGE APPROVALS

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	Docket: <u>50-361</u> Reporting Period: <u>09/01/</u>			
	Utility Contact: <u>L. I. M</u> Licensed Thermal Power (M			
				3410
	Nameplate Rating (Gross M			
	Design Electrical Rating			1070
1	Maximum Dependable Capaci			
	Maximum Dependable Capaci	and the second second		
7.	If Changes Occur Above Si	nce Last R	eport, Give	Reasons
10	Pausa Laural Ta libiah Paul	alated to	1	
	Power Level To Which Rest			
	Reasons for Restrictions, NONE	If Any.		
	nonc	MONTH	YEAR	CUMULATIV
12.	Report Period Hrs	720.0		10,080.0
13.	Hours Reactor Sritical	720.0	4,799.5	7,412.3
14.	Rx Reserve Shtdwn Hrs			
15.	Hrs Generator On-Line	720.0	9,697.9	
16.	Unit Reserve Shtdwn Hrs	0	0	(
17.	Gross Therm Ener (MWH)	2,405,237	15,331,265	23,824,800
18.	Gross Elec Ener (MWH)	789,413	5,128,129	8,040,093
19.	Net Elec Ener (MWH)	751,545	4,849,033	7,624,677
20.	Unit Service Factor	100.0	71.5	72.0
21.	Unit Avail Factor	100.0	71.5	72.0
22.	Unit Cap Factor (MDC Net)	97.6	68.8	70.7
23	Unit Cap Factor (DER Net)	97.6	68.8	70.7
	Unit Forced Outage Rate		4.3	4.1
		0	208.7	309.6
24.	Forced Outage Hours			
24. 25.	Forced Outage Hours Shutdowns Sched Over Next			uration):





SEPTEMBER 1984

Report Period SEP 1984	UNIT SHUTDOWNS / REDUCTIONS * SAN ONOFRE 2	***********
No. Date Type Hours Reason M	hod LER Number System Component Cause & Corrective Action to Prevent	Recurrence
NONE		

\* SUMMARY \*

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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)

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#### 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

### FACILITY DATA

Report Period SEP 1984

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

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.....A. CHAFFEE

LICENSE & DATE ISSUANCE...., SEPTEMBER 7, 1982

PUBLIC DOCUMENT ROOM......SAN CLEMENTE LIBRARY 242 AVENIDA DEL MAR SAN CLEMENTE, CALIFORNIA INSPECTION STATUS

#### INSPECTION SUMMARY

+ INSPECTION ON JUNE 11 - AUGUST 5, 1984 (REPORT NO. 50-361/84-18) AREAS INSPECTED: ROUTINE, MONTHLY RESIDENT INSPECTION OF OPERATION PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, LICENSEE EVENT REPORT REVIEW, MONTHLY MAINTENANCE ACTIVITIES, AND INDEPENDENT INSPECTION. THE INSPECTION INVOLVED 96 INSPECTOR-HOURS ONSITE BY FOUR NRC INSPECTORS.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WEERE IDENTIFIED.

+ INSPECTION ON JULY 24 - SEPTEMBER 7, 1984 (REPORT NO. 50-361/84-24) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON SEPTEMBER 4-7, 1984 (REPORT NO. 50-361/84-26) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON SEPTEMBER 18 - OCTOBER 30, 1984 (REPORT NO. 50-361/84-27) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

#### ENFORCEMENT SUMMARY

NONE

INSPECTION STATUS - (CONTINUED)

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

LOW POWER FACILITY OPERATING LICENSE WAS ISSUED FEBRUARY 16, 1982. THE FULL POWER FACILITY OPERATING LICENSE WAS ISSUED SEPTEMBER 7, 1982, AS AMENDEMENT 7 TO THE LOW POWER LICENSE. THE PLANT COMMENCED COMMERCIAL OPERATION ON AUGUST 7, 1983.

PLANT STATUS:

STEADY OPETATION AT FULL POWER;

LAST IE SITE INSPECTION DATE: 09/18-10/30/84+

INSPECTION REPORT NO: 50-361/84-27+

# REPORTS FROM LICENSEE

DATE OF SUBJECT DATE OF NUMBER REPORT EVENT FIRE BARRIERS NOT IN CONFORMANCE WITH FIRE PROTECTION PLAN 01-13-X4 01-11-84 01-13-84 FOLLOWUP REPORT TO SPECIAL REPORT SUBMITTED 01-13-84 01-26-84 01-26-X4 01-11-84 SPURIOUS CALIB.FAILURE VENT MONITOR 3RE-7865 RESULTED IN REMOVAL FROM SERVICE-RETURNED TO 07-05-84 06-20-84 06-20-84 SERVICE 6/29 INOPERABLE FIRE DOORS --07-19-X4 -2RE-7865 INOPERABLE GREATER THAN 72 HOURS PREPLANNED ALTERNATIVES TAKEN 84-08-X0 08-04-84 08-17-84 INADVERTENT DE-ENERGIZATION OF EMERGENCY CHILLER/INITIATION OF TOXIC GAS ISOLATION SYSTEM 07-12-84 84-29-L0 06-14-84 FIRE WATER MAIN LEAK 84-33-L0 06-16-84 07-16-84 FAILURE TO ESTABLISH FIRE WATCH 07-11-84 84-34-L0 06-11-84 CPIS ACTUATED BY MONITOR ZRE-7804 DURING SG WORK-PURGE RESTART AFTER NEW MONITOR SETPOINT 07-25-84 84-35-L0 06-25-84 ESTABLISHED

Report Period SEP 1984 REPORTS FROM LICENSEE - (CONTINUED)

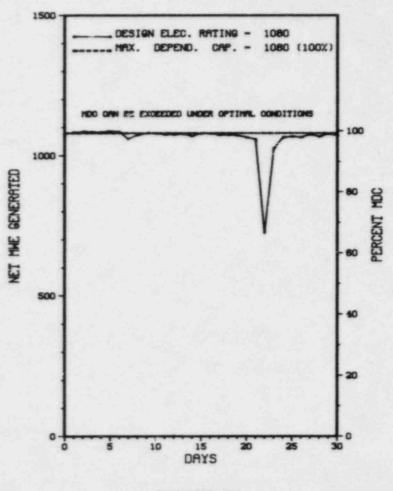
84-36-LO	06-29-84	08-17-84	HPSI ISOLATION VALVES
84-37-L0	06-27-84	07-27-84	SPURIOUS TOXIC GAS ISOLATION SYSTEM (TGIS) ACTUATIONS
84-38-L0	07-08-84	08-02-84	FOUR SPURIOUS CRIS ACTUATIONS CSD BY NOISE ON MONITOR 2BRE-7824 REPEAT OF 84-23-L0-FOLUP RPT
84-39-LO	07-12-84	08-13-84	MISSED IN-SERVICE INSPECTION TEST ON SHUTDOWN COOLING HEAT EXCHANGER VALVES
84-40-L0	07-23-84	08-22-84	MAIN STEAM ISOLATION SYSTEM INADVERTENT ACTUATION
84-41-L0	07-24-84	07-25-84	FIRE PROTECTION PROGRAM DISCREPANCIES
84-42-L0	07-30-84	08-29-84	SPURIOUS TOXIC GAS ISOLATION SYSTEM (TGIS) ACTUATIONS
84-43-L0	08-08-84	09-06-84	DNBR REACTOR TRIP
84-44-L0	08-03-84	09-04-84	TOXIC GAS ISOLATION SYSTEM ACTUATION
84-45-L0	08-09-84	09-10-84	CHARGING PUMP 2P191 CRACKED BLOCK

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	Docket: 50-362		INGS	
2.	Reporting Period:	84 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: L. I. M.	AYWEATHER	(714) 492-7	700 ×56223
4.	Licensed Thermal Power (M	Mf):		3390
5.	Nameplate Rating (Gross M	We):		1127
6.	Design Electrical Rating	(Net MWe):		1080
7.	Maximum Dependable Capaci	ty (Gross M	We):	1127
8.	Maximum Dependable Capaci	ty (Net MWe	):	1080
9.	If Changes Occur Above Sin	nce Last Re	port, Give	Reasons:
	MDC NET & DER REFLECT AU	XILIARY STA	TION LOADS.	
10.	Power Level To Which Rest	ricted, If	Any (Net MW	le):
11.	Reasons for Restrictions,	If Any:	Sec. 1	
	NONE		10.00	
12.	Report Period Hrs	MONTH 720.0	YEAR 4,391.0	CUMULATIVE 4,391.0
13.	Hours Reactor Critical		3,065.9	3,065.9
14.	Rx Reserve Shtdwn Hrs		. 0	
15.	Hrs Generator On-Line	720.0	2,833.0	2,833.0
16.	Unit Reserve Shtdwn Hrs		. 0	
17.	Gross Therm Ener (MWH)	2,405,823	8,784,726	8,784,726
18.	Gross Elec Ener (MWH)	801,505	2,984,642	2,984,642
19.	Net Elec Ener (MWH)	764,441	2,802,896	2,802,896
20.	Unit Service Factor	100.0	64.5	64.
21.	Unit Avail Factor	100.0	64.5	64.5
22.	Unit Cap Factor (MDC Net)	98.3	59.1	59.
23.	Unit Cap Factor (DER Net)	98.3	59.1	59.
24.	Unit Forced Outage Rate		1.6	1.6
25.	Forced Outage Hours		46.8	46.8
	Shuldowne Schod Quer Neut	6 Months (	Type, Date, D	uration):
26.	Shutdowns Sched Over Next	o noncina v		

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SEPTEMBER 1984

Report	t Period S	EP 19	84		UN	IT	SHU	TDOW	 s	/ 1	RE	D	U	C 1	т	I	0	N S	* SAN ONOFRE 3 *
No.	Date	Type	Hours	Reason	Method	LER	Number	System	ompo	nen	Ē I	_	_	C	au	se	- 8	Co	prrective Action to Prevent Recurrence
8	09/22/84	s	0.0	В	5						T	EST	IN	G,	C	ON	TR	OL	FOR TURBINE STOP AND GOVERNOR VALVE ELEMENT ASSEMBLY EXERCISING AND DUS SURVEILLANCE AND MAINTENANCE

\*\*\*\*\*\*\*\*\*\*\* SAN ONOFRE 1 EXPERIENCED NO OUTAGES AND 1 POWER REDUCTION IN SEPTEMBER. \* SUMMARY \*

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)

**************************************	LITY DATA Report Period SEP 1984
FACILITY DESCRIPTION	UTILITY & CONTRACTOR INFORMATION
LOCATION STATECALIFORNIA	UTILITY LICENSEESOUTHERN CALIFORNIA EDISON
COUNTYSAN DIEGO	CORPORATE ADDRESSP.O. BOX 800 ROSEMEAD, CALIFORNIA 91770
DIST AND DIRECTION FROM NEAREST POPULATION CTR5 MI S OF SAN CLEMENTE, CA	CONTRACTOR ARCHITECT/ENGINEERBECHTEL
TYPE OF REACTORPWR	NUC STEAM SYS SUPPLIERCOMBUSTION ENGINEERING
DATE INITIAL CRITICALITYAUGUST 29, 1983	CONSTRUCTORBECHTEL
DATE ELEC ENER 1ST GENERSEPTEMBER 25, 1983	TURBINE SUPPLIERGENERAL ELECTRIC COM (ENG VERSION)
DATE COMMERCIAL OPERATE APRIL 1, 1984	REGULATORY INFORMATION
CONDENSER COOLING METHODONCE THRU	IE REGION RESPONSIBLEV
CONDENSER COOLING WATERPACIFIC OCEAN	IE RESIDENT INSPECTORA. CHAFFEE
ELECTRIC RELIABILITY COUNCILWESTERN SYSTEMS	LICENSING PROJ MANAGERH. ROOD DOCKET NUMBER50-362
COORDINATING COUNCIL	LICENSE & DATE ISSUANCENPF-15, NOVEMBER 15, 1982
	PUBLIC DOCUMENT ROOM SAN CLEMENTE LIBRARY

BLIC DOCUMENT ROOM......SAN CLEMENTE LIBRART 242 AVENIDA DEL MAR SAN CLEMENTE, CALIFORNIA S T A T U S

#### INSPECTION SUMMARY

+ INSPECTION ON JUNE 11 - AUGUST 5, 1984 (REPORT NO. 50-362/84-18) AREAS INSPECTED: ROUTINE, MONTHLY RESIDENT INSPECTION OF OPERATION PROGRAM INCLUDING THE FOLLOWING AREAS: OPERATIONAL SAFETY VERIFICATION, LICENSEE EVENT REPORT REVIEW, MONTHLY SURVEILLANCE ACTIVITIES, MONTHLY MAINTENANCE ACTIVITIES, BIMONTHLY ESF SYSTEM WALKDOWN, AND INDEPENDENT INSPECTION. THE INSPECTION INVOLVED 183 INSPECTOR-HOURS ONSITE BY FOUR NRC INSPECTORS.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON JULY 27 - SEPTEMBER 7, 1984 (REPORT NO. 50-362/84-24) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ ENFORCEMENT CONFERENCE ON AUGUST 8, 1984 (REPORT NO. 84-26) THE FOLLOWING MATTERS WERE DISCUSSED: 1. ACTIONS BEING TAKEN BY THE LICENSEE IN RESPONSE TO THE NOTICE OF VIOLATION ISSUED ON MAY 16, 1984. 2. THE LICENSEE'S WRITTEN RESPONSE TO THE NOTICE OF VIOLATION.

THIS MEETING AND ENFORCEMENT CONFERENCE INVOLVED & TOTAL OF 20 HOURS BY SIX NRC REPRESENTATIVES.

INSPECTION

+ INSPECTION ON SEPTEMBER 4-7, 1984 (REPORT NO. 50-362/84-27) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON SEPTEMBER 18 - OCTOBER 30, 1984 (REPORT NO. 50-362/84-28) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

INSPECTION STATUS - (CONTINUED)

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# ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

ABNORMALLY HIGH RADIATION LEVELS OBSERVED IN REACTOR COOLANT SYSTEM.

FACILITY ITEMS (PLANS AND PROCEDURES):

+ NONE

MANAGERIAL ITEMS:

LOW POWER FACILITY OPERATING LICENSE WAS ISSUED NOVEMBER 15, 1982. THE FULL POWER LICENSE WAS ISSUED SEPTEMBER 16, 1983.

PLANT STATUS:

INITIAL CRITICALITY WAS AUGUST 29, 1983. POWER ASCENSION TESTING WAS COMPLETED ON JANUARY 6, 1984. THE UNIT IS NOW OPERATING AT FULL POWER.

ABNORMALLY HIGH LEVELS OF RADIOACTIVITY HAVE BEEN OBSERVED, AND THE CAUSE AND NECESSARY CORRECTIVE ACTIONS ARE BEING EVALUATED.

LAST IE SITE INSPECTION DATE: 09/18-10/30/84+

INSPECTION REPORT NO: 50-362/84-28+

2

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
06-01-84	06-01-84	06-15-84	TWO CONDENSER EVAC. MONITORS DOS MORE THAN 72 HRS-APPROPRIATE ACTION STATEMENTS ADDRESSED
84-10-X0	06-08-84	06-21-84	3RE-7870 NOT RETURNED TO SERVICE IN 72 HR. PREPLANNED ALTERNATE TAKEN
84-09-L0	03-17-84	03-30-84	INOPERABILITY OF CONTAINMENT SPRAY SYSTEM
84-21-L0	06-02-84	06-29-84	NUCLEAR SAMPLE SYSTEM RELIEF VALVE LIFTED-427 CI NOBLES RELEASED-7 TIMES 10CFR20 APP.B TABL I VALUE
84-23-LO	06-01-84	06-28-84	DE I131 EXCEEDED 1 MCI/GM ON TWO OCCASIONS-INFO REQ BY TS RPTD ACTION STATEMENTS SATISFIED
84-24-L0	06-11-84	07-09-84	DNBR REACTOR TRIP
84-25-L0	06-14-84	07-16-84	SYSTEM STATUS FOLLOWING TESTING
84-26-L0	06-12-84	07-12-84	FAULTY REPLACEMENT 3RE-7807 IODINE CHANNEL RESULTED IN CPIS ACTUATION LOGIC-NO PURGE-NO ACTUATION
84-27-LO	06-12-84	07-12-84	FAILURE TO COLLECT 24 HR CONTAINMENT PART. & I SAMPLE-PERSONNEL ERROR
84-28-L0	06-14-84	07-16-84	DELINQUENT PROCESSING OF OVERTIME REQUEST FORMS
84-29-L0	07-09-84	08-14-84	REACTOR POWER INCREASE
84-32-L0	08-08-84	09-07-84	HIGH STEAM GENERATOR WATER LEVEL REACTOR TRIP
84-33-LO	08-05-84	09-06-84	CONDENSATE STORAGE TANK BLOCKED FLOW PATH
84-34-LO	08-24-84	08-27-84	MISSING CONDUIT FIRE WRAPPING

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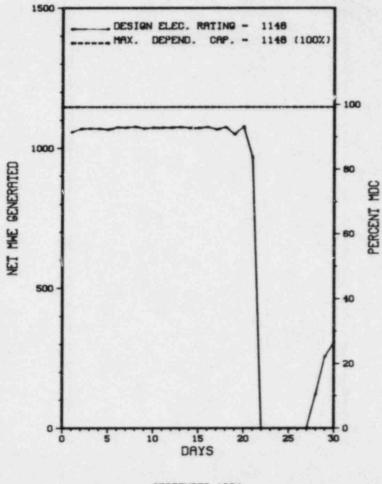
1.	Docket: 50-327 0	PERAT	ING S	TATUS
2.	Reporting Period: _09/01/8	14 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: MIKE EDD	DINGS (615)	870-6248	
4.	Licensed Thermal Power (Mu	1f):	· · · · · · · · · · · · · · · · · · ·	3411
5	Nameplate Rating (Gross MM	le):	<u> </u>	1220
6.	Design Electrical Rating (	Net MWe):		1148
7.	Maximum Dependable Capacit	y (Gross M	1We):	1183
8.	Maximum Dependable Capacit	ty (Net MWe	):	1148
9.	If Changes Occur Above Sir	nce Last Re	port, Give	Reasons:
	NONE			
10.	Power Level To Which Restr	ricted, If	Any (Net MW	le):
	Reasons for Restrictions,			
	NONE			
		MONTH	YEAR	
	Report Period Hrs	720.0	6,575.0	
13.	Hours Reactor Critical	602.5	3,997.1	18,438.5
14.	Rx Reserv Shtdwn Hrs		0	0
15.	Hrs Generator On-Line	563.7	3,786.7	17,899.8
16.	Unit Reserve Shtdwn Hrs	0		0
17.	Gross Therm Ener (MWH)	1,767,264	11,704,072	57, 195, 872
18.	Gross Elec Ener (MWH)	573,870	3,819,860	19,200,996
19.	Net Elec Ener (MWH)	549,030	3,657,409	18,434,337
20.	Unit Service Factor		57.6	62.8
21.	Unit Avail Factor	78.3	57.6	62.8
22.	Unit Cap Factor (MDC Nat)	66.4	48.5	56.3
	Unit Cap Factor (DER Net)	66.4	48.5	56.3
23.			27.4	21.2
	Unit Forced Outage Rate	21.7	67.7	the second s
24.	Unit Forced Outage Rate Forced Outage Hours			

27. If Currently Shutdown Estimated Startup Date: \_\_\_\_\_\_

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AVERAGE DAILY POWER LEVEL (MWe) PLOT

# SEQUOYAH 1



SEPTEMBER 1984

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Report	Period SI	EP 198	84		UN	IT	SHU	TD	0 W	N	s /	R	ΕI	U C	c	τI	0	н :	************************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	Sv	stem	Co	mpon	ent	_		C.	aus	e 8	C	orrective Action to Prevent Recurrence	
	09/21/84	F	156.3	A	1								ST	EAM	LE	AKS	ON	FI	EEDWATER DRAIN LINES REPAIRED.	

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)

\*\*\*\*\* SEQUOYAH 1 \*\*\*\*\*\*\*\*

#### FACILITY DESCRIPTION

LOCATION STATE.....TENNESSEE

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

RELIABILITY COUNCIL

#### FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY

LICENSEE......TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

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

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

TURBINE SUPPLIER ..... WESTINGHOUSE

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....E. FORD

LICENSING PROJ MANAGER.....C. STAHLE 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

#### STATUS INSPECTION

# INSPECTION SUMMARY

INSPECTION JULY 16-20 AND JULY 24-26 (84-18): THIS SPECIAL, ANNOUNCED INSPECTION INVOLVED 58 INSPECTOR-HOURS IN THE AREAS OF BROWNS FERRY AND SEQUOYAH PLANT TRAINING ASSESSMENT. WITHIN THE AREAS INSPECTED, ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED AT THE BROWNS FERRY NUCLEAR PLANT AND ONE VIOLATION WAS IDENTIFIED AT THE SEQUOYAH MUCLEAR PLANT.

INSPECTION JULY 6 - AUGUST 5 (84-20): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED 85 INSPECTOR-HOURS ONSITE IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION, AUXILIARY CONTROL SYSTEM, RESIDUAL HEAT REMOVAL SYSTEM, FOLLOWUP ON EVENTS, ESF SYSTEM OPERABILITY, IE BULLETIN FOLLOWUP, LER FOLLOWUP, INDEPENDENT INSPECTION EFFORT AND IN-OFFICE REVIEW. OF THE NINE AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED IN SIX AREAS; FOUR VIOLATIONS WERE FOUND IN THREE AREAS (FAILURE TO HAVE AN ADEQUATE MAINTENANCE PROCEDURE; FAILURE TO HAVE AN ADEQUATE SURVEILLANCE PROCEDURE ON RHR; FAILURE TO MAKE REQUIRED 10 CFR 50.72 NOTIFICATION AND FAILURE TO IMPLEMENT PROCEDURES).

INSPECTION AUGUST 6-10 (84-21): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 16 INSPECTOR-HOURS ON SITE IN THE AREAS OF ORGANIZATION AND MANAGEMENT, TRAINING AND QUALIFICATIONS, INTERNAL EXPOSURES, EXTERNAL EXPOSURES, CONTROL OF RADIOACTIVE MATERIAL, ALARA, SOLID WASTES AND TRANSPORTATION AND PASS FOLLOW-UP ITEMS. A VIOLATION WAS IDENTIFIED - TWO INSTANCES OF FAILURE TO FOLLOW RADIATION PROTECTION PROCEDURES WERE FOUND.

INSPECTION AUGUST 27-30 (84-22): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 30 INSPECTOR-HOURS ON SITE IN THE AREAS OF EMERGENCY PREPAREDNESS. OF THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

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# Report Period SEP 1984

#### ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATION 6.11 STATES LICENSEE SHALL HAVE PROCEDURES AND ADHERE TO THEM. LICENSE PROCEDURE RCI-3 PERSONNEL MONITORING, STATES THAT TLD'S AND DOSIMETERS SHALL BE WORN BETWEEN THE NECK AND WAIST. LICENSE PROCEDURE SQA-133 STATES THAT GREEN CONTAINERS SHALL BE USED FOR NON-RADIOACTIVE MATERIAL AND YELLOW CONTAINERS SHALL BE USED FOR RADIOACTIVE MATERIAL. CONTRARY TO THE ABOVE, SEVERAL WORKERS WERE OBSERVED WEARING TLO'S AND DOSIMETERS IN THEIR TROUSER POCKETS AND YELLOW CONTAINERS WERE BEING USED FOR NON-RADIOACTIVE MATERIALS. (8421 4)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

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FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

100%

LAST IE SITE INSPECTION DATE: AUGUST 27-30, 1984 +

INSPECTION REPORT NO: 50-327/84-22 +

#### REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-048	07/25/84	08/24/84	A REACTOR COOLANT PRESSURE CHANNEL DID NOT PRESENTLY EXIST IN THE FIELD. THE RESCALED CHANNEL WILL PROVIDE PRESSURE INDICATION.
84-049	08/15/84	08/29/84	INTERACTIONS WERE FOUND THAT WERE NOT IN COMPLIANCE WITH APPENDIX R, FIRE WATCHES HAVE BEEN ESTABLISHED.
84-050	08/07/84	09/06/84	CONTROL ROOM VENTILATION ISOLATION-A SPURIOUS SIGNAL FROM THE CHLORINE DETECTOR CAUSED A CONTROL ROOM ISOLATION.

1.	Docket: _50-328	PERAT	INGS	TATUS					
2.	Reporting Period: 09/01/84 Outage + On-line Hrs: 720.0								
3	Utility Contact: DAVID DU	JPREE (615)	870-6543						
4.	1000								
5.									
6.									
7.									
8	Maximum Dependable Capaci	ty (Net MWe	2):	1148					
9.	. If Changes Occur Above Since Last Report, Give Reasons:								
	NONE								
10.	Power Level To Which Rest	ricted, If	Any (Net MW	le):					
11.	Reasons for Restrictions,	If Any:	<u>, 1997, 1997, 1997</u>						
	NONE	<u>1967 (1987)</u>							
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 20,472.0					
13.	Hours Reactor Critical	575.0	6,124.7	16,485.8					
14.	Rx Reserve Shtdwn Hrs	0	0						
15.	Hrs Generator On-Line	532.4	5,987.9	16,142.3					
16.	Unit Reserve Shtdwn Hrs		0	0					
17.	Gross Therm Ener (MWH)	1,471,238	19,449,576	51,867,643					
18.	Gross Elec Ener (MWH)	482,390	6,620,740	17,652,680					
19.	Net Elec Ener (MWH)	459,346	6,373,689	16,991,427					
20.	Unit Service Factor	73.9	91.1	78.9					
21.	Unit Avail Factor	73.9	91.1	78.9					
22.	Unit Cap Factor (MDC Net)	55.6	84.4	72.3					
23.	Unit Cap Factor (DER Net)	55.6	84.4	72.3					
24.	Unit Forced Outage Rate	20.6	7.4	8.9					
25.	Forced Outage Hours	138.4	480.3	1,582.1					
26	Shutdowns Sched Over Next	6 Months	Type.Date.D	uration):					

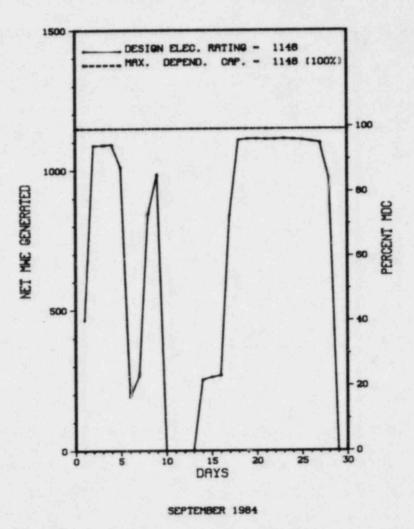
27. If Currently Shutdown Estimated Startup Date: \_\_\_\_\_\_\_\_

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NONE

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# SEQUOYAH 2



UNIT SHUTDOWNS / REDUCTIONS

No.	Date	Type	Hours	Reason	Method	LER Number	System C	omponent	Cause & Corrective Action to Prevent Recurrence
8	09/05/84	F	34.6	A	3				LOW E.H.C. PRESSURE.
9	09/09/84	F	19.9	A	3				NEUTRAL TRANSFORMER OVERVOLTAGE.
10	09/10/84	F	4.0	G	3				LO-LO LEVEL STEAM GENERATOR NO. 4.
11	09/10/84	F	3.3	A	3				COND. DI WAS BYPASSED DUE TO HIGH DELTA 'P' DURING START UP CAUSING THE MFPT AND S/G'S TO SWING.
12	09/10/84	F	76.6	A	3				FEED WATER REG. VALVE TO NO. 4 S/G WAS SLUGGISH IN OPERATIONS DURING START-UP. MFPT WOULD NOT RESET.
13	09/28/84	s	49.2	с	1				CYCLE 2 REFUELING/MODIFICATION OUTAGE COMMENCES.

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)	

\*\*\*\*\* SEQUOYAH 2 \*

FACILITY DESCRIPTION

LOCATION STATE.....TENNESSEE

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 

RELIABILITY COUNCIL

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE..... TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

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

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

TURBINE SUPPLIER......WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....E. FORD

LICENSING PROJ MANAGER.....C. STAHLE 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 SUMMARY

+ INSPECTION JULY 9-11 (84-18): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED 34 INSPECTOR-HOURS ON SITE IN THE AREA OF EVENT FOLLOWUP. THE EVENTS INCLUDED THE FAILURE OF THE AUXILIARY FEEDWATER SYSTEM (AFWS) TO START ON A LOSS OF FEEDWATER REPORTED ON JUNE 30, 1984, AND THE INADVERTENT START OF ALL FOUR EMERGENCY DIESEL GENERATORS REPORTED ON JULY 5, 1984. IN THE AREAS INSPECTED, TWO VIOLATIONS WERE FOUND. (FAILURE TO FOLLOW WRITTEN AND APPROVED PROCEDURES AND TO PROVIDE ADEQUATE PROCEDURES FOR ABNORMAL ALIGNMENTS DURING THE REMOVAL AND RESTORATION OF SAFETY SYSTEMS AND SUBSYSTEMS; AND FAILURE TO ASSURE ADEQUATE DESIGN OF THE AUXILIARY FEEDWATER SYSTEM. ALSO, IDENTIFIED WERE: AN UNRESOLVED ITEM REGARDING APPARENT INCONSISTENCY BETWEEN AFWS TECHNICAL SPECIFICATIONS (TS), AND AN INSPECTOR FOLLOWUP ITEM REGARDING OPERATOR TRAINING ON THE AFWS LOGIC.

INSPECTION JULY 16-20 AND JULY 24-26 (84-19): THIS SPECIAL, ANNOUNCED INSPECTION INVOLVED 58 INSPECTOR-HOURS IN THE AREAS OF BROWNS FERRY AND SEQUOYAH PLANT TRAINING ASSESSMENT. WITHIN THE AREAS INSPECTED, ONE VIOLATION AND ONE DEVIATION WERE IDENTIFIED AT THE BROWNS FERRY NUCLEAR PLANT AND ONE VIOLATION WAS IDENTIFIED AT THE SEQUOYAH NUCLEAR PLANT.

INSPECTION JULY 6 - AUGUST 5 (84-21): THIS ROUTINE, ANNOUNCED INSPECTION INVOLVED 85 INSPECTOR-HOURS ONSITE IN THE AREAS OF OPERATIONAL SAFETY VERIFICATION, AUXILIARY CONTROL SYSTEM, RESIDUAL HEAT REMOVAL SYSTEM, FOLLOWUP ON EVENTS, ESF SYSTEM OPERABILIT , IE BULLETIN FOLLOWUP, LER FOLLOWUP, INDEPENDENT INSPECTION EFFORT AND IN-OFFICE REVIEW. OF THE NINE AREAS INSPECTED, NO VIOLATIONS WERE IDENTIFIED IN SIX AREAS; FOUR VIOLATIONS WERE FOUND IN THREE AREAS (FAILURE TO HAVE AN ADEQUATE MAINTENANCE PROCEDURE; FAILURE TO HAVE AN ADEQUATE SURVEILLANCE PROCEDURE ON RHR; FAILURE TO MAKE REQUIRED 10 CFR 50.72 NOTIFICATION AND FAILURE TO IMPLEMENT PROCEDURES).

PAGE 2-298

Report Period SEP 1984

# FACILITY DATA

# INSPECTION STATUS

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

INSPECTION AUGUST 6-10 (84-22): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 16 INSPECTOR-HOURS ON SITE IN THE AREAS OF ORGANIZATION AND MANAGEMENT, TRAINING AND QUALIFICATIONS, INTERNAL EXPOSURES, EXTERNAL EXPOSURES, CONTROL OF RADIOACTIVE MATERIAL, ALARA, SOLID WASTES AND TRANSPORTATION AND PASS FOLLOW-UP ITEMS. A VIOLATION WAS IDENTIFIED - TWO INSTANCES OF FAILURE TO FOLLOW RADIATION PROTECTION PROCEDURES WERE FOUND.

INSPECTION AUGUST 27-30 (84-23): THIS ROUTINE, UNANNOUNCED INSPECTION INVOLVED 30 INSPECTOR-HOURS ON SITE IN THE AREAS OF EMERGENCY PREPAREDNESS. OF THE AREAS INSPECTED, NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

CONTRARY TO SEQUOYAH TECHNICAL SPECIFICATION 6.8.1, APPENDIX A OF REGULATORY GUIDE 1.33, SEQUOYAH UNIT 2 OPERATING LICENSE DPR-79 PART 8, ITEM C, THE LICENSEE FAILED TO IMPLEMENT PROCEDURES AND FAILED TO PROVIDE PROCEDURES TO VERIFY THE ADEQUACY OF OPERATING ACTIVITIES: (A) OPERATORS FAILED TO FOLLOW ADMINISTRATIVE PROCEDURES (AI'S) WHILE OPERATING VALVES ON THE AUXILIARY FEEDWATER SYSTEM, EXAMPLES INCLUDE: (1) AI-30 IN THAT THE VALVES WERE OPERATED WITHOUT SHIFT SUPERVISOR APPROVAL AND WITHOUT LOGGING THE CHANGES IN THE SYSTEM STATUS LOG. (2) AI-6 IN THAT THE VALVES WERE OPERATED WITHOUT SHIFT SUPERVISOR APPROVAL AND WITHOUT LOGGING THE CHANGES IN THE SYSTEM STATUS LOG. (2) AI-6 IN THAT THE ENTRY IN TO TECHNICAL SPECIFICATION LCO 3.7.1.2 WAS NOT LOGGED IN THE UNIT OPERATOR AND SHIFT SUPERVISOR LOGBOOKS. (B) THE LICENSE FAILED TO PROVIDE WRITTEN PROCEDURES TO ENSURE THAT A SAFETY SUBSYSTEM (A PORTION OF AFWS) WAS PROPERLY REMOVED AND RESTORED INCLUDING INDEPENDENT VERIFICATION. (C) OPERATORS FAILED TO FOLLOW SURVEILLANCE PROCEDURE SI-7 IN THE SPECIFIED SEQUENCE ON JULY 5, 1984 AND INADVERTENTLY STARTED ALL FOUR DIESELS. CONTRARY TO 10 CFR 50, APPENDIX B, CRITERION III, THE LICENSEE FAILED TO ESTABLISH ADEQUATE MEASURES TO ASSURE THAT THE DESIGN BASIS REQUIREMENTS OF THE FSAR PARAGRAPH 10.4.7.2.3 (AFWS) WERE CORRECTLY TRANSLATED INTO SPECIFICATIONS, DRAWINGS, PROCEDURES, AND INSTRUCTIONS. SPECIFIC INSTANCES ARE: (A) A SINGLE FAILURE OF AFWS VALVE FCV 1-15 RENDERED THE AFWS TURBINE DRIVEN PUMP INOPERATIVE DUE TO THE STEAM SUPPLY TRANSFER DESIGN. (B) AUTOMATIC START OF THE THREE AFWS PUMPS ON A LOSS OF FEEDWATER SIGNAL (BELOW 80% POWER) IS INHIBITED BY THE DEENERGIZATION OF ONE MAIN FEEDWATER PUMP CONTROL CIRCUIT OF THE FAILURE OF ONE MFP TURBINE GOVERNOR OIL PRESSURE SWITCH. (C) THE AFWS INITIATING CIRCUITS ASSOCIATED WITH A LOSS OF FEEDWATER ARE NOT POWERED FROM EMERGENCY BUSES.

TECHNICAL SPECIFICATION 6.11 STATES LICENSEE SHALL HAVE PROCEDURES AND ADHERE TO THEM. LICENSE PROCEDURE RCI-3 PERSONNEL MONITORING, STATES THAT TLD'S AND DOSIMETERS SHALL BE WORN BETWEEN THE NECK AND WAIST. LICENSE PROCEDURE SQA-133 STATES THAT GREEN CONTAINERS SHALL BE USED FOR NON-RADIOACTIVE MATERIAL AND YELLOW CONTAINERS SHALL BE USED FOR RADIOACTIVE MATERIAL. CONTRARY TO THE ABOVE, SEVERAL WORKERS WERE OBSERVED WEARING TLO'S AND DOSIMETERS IN THEIR TROUSER POCKETS AND YELLOW CONTAINERS WERE BEING USED FOR NON-RADIOACTIVE MATERIALS. (8422 4)

#### OTHER ITEMS

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SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

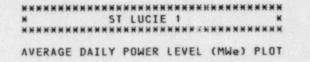
MANAGERIAL ITEMS:

NONE

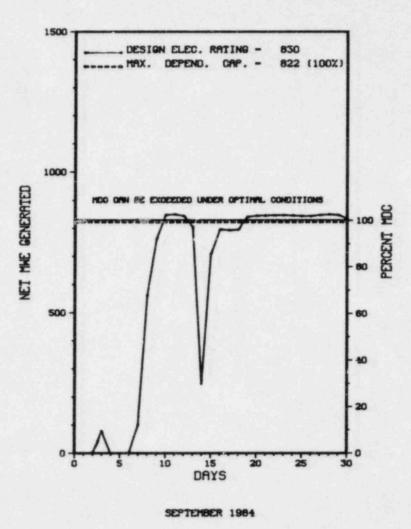
Report Period SEP 1984	INSPEC	TION	STATUS - (	CONTINUED	**************************************
OTHER ITEMS					
PLANT STATUS:					
* REFUELING					
LAST IE SITE INSPECTION DAT	E: AUGUST 27-3	0, 1984 +			
INSPECTION REPORT NO: 50-3	328/84-23 +				
		REPORT	S FROM LI	CENSEE	
NUMBER DATE OF DATE EVENT REF	E OF SUBJECT Port				
NONE.					
		=================			

PAGE 2-301 THIS PAGE INTENTIONALLY LEFT BLANK 4 0

1.	Dosket: _50-335	OPERAI	ING S	TATUS				
2.	Reporting Period: 09/01/	84 Outage	+ On-line	Hrs: 720.0				
3.	Utility Contact: N. W. G	RANT (305)	552-3675					
4.	Licensed Thermal Power (MWt):2700							
5.	Nameplate Rating (Gross M	We):	1000 X	0.89 = 890				
6.	Design Electrical Rating	(Net MWe):		830				
7.	Maximum Dependable Capacity (Gross MWe):867							
8.	Maximum Dependable Capaci	ty (Net Mk.	.):	822				
9.	If Changes Occur Above Si NONE	nce Last Re	eport, Give	Reasons:				
10.	Power Level To Which Rest	ricted, If	Any (Net M	We):				
	Reasons for Restrictions, NONE							
	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 68,183.0				
13.	Hours Reactor Critical	711.7	3,377.5	47,843.8				
14.	Rx Reserve Shtdwn Hrs	. 0		205.3				
15.	Hrs Generator On-Line	555.9	3,002.3	46,579.2				
16.	Unit Reserve Shtdwn Hrs			39.3				
17.	Gross Therm Ener (MWH)	1,415,580	7,712,821	116,380,759				
18.	Gross Elec Ener (MWH)	465,310	2,563,180	37,937,055				
19.	Net Elec Ener (MWH)	436,781	2,403,507	35,733,207				
20.	Unit Service Factor		45.7	68.3				
21.	Unit Avail Factor		45.7	68.4				
22.	Unit Cap Factor (MDC Net)	73.8	44.5	63.8				
23.	Unit Cap Factor (DER Net)	73.1	44.0	63.1				
24.	Unit Forced Outage Rate	22.8	8.9	4.9				
25.	Forced Outage Hours	164.1	294.2	2,398.9				
	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,I	Duration):				
	If Currently Shutdown Est	imated Star	tup Date:	N/A				



# ST LUCIE 1



PAGE 2-302

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Report	Period SI	EP 19	84		UN	<b>IT SHU</b>	TDOW	NS / R	EDUCTIONS         ************************************
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
10	08/31/84	F	54.8	н	4		HF	222222	EXCESSIVE JELLYFISH IN INTAKE CANAL PREVENTED PLANT OPERATION AT POWER. TURBINE GENERATOR VIBRATIONS REQUIRED REDUCED POWER WHEN THE UNIT WAS RETURNED TO OPERATION.
11	09/03/84	F	96.3	н	9		HF	222222	THE UNIT WAS REMOVED FROM POWER OPERATION TO BALANCE THE TURBINE AND THEN KEPT SHUTDOWN DUE TO EXCESSIVE Jellyfish in intake.
12	09/14/84	F	13.0	н	2		HF	ZZZZZZ	EXCESSIVE JELLYFISH IN INTAKE CANAL PREVENTED PLANT OPERATION AT POWER. THE UNIT RETURNED TO OPERATION AT REDUCED POWER INITIALLY TO REPAIR TRAVELING SCREENS.

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)	

**************************************	ILITY DATA Report Period SEP 1984
FACILITY DESCRIPTION	UTILITY & CONTRACTOR INFORMATION
LOCATION STATEFLORIDA	UTILITY LICENSEEFLORIDA POWER & LIGHT
COUNTYST LUCIE	CORPORATE ADDRESS
DIST AND DIRECTION FROM NEAREST POPULATION CTR12 MI SE OF FT. PIERCE, FLA	CONTRACTOR ARCHITECT/ENGINEEREBASCO
TYPE OF REACTORPWR	NUC STEAM SYS SUPPLIERCOMBUSTION ENGINEERING
DATE INITIAL CRITICALITYAPRIL 22, 1976	CONSTRUCTOREBASCO
DATE ELEC ENER 1ST GENERMAY 7, 1976	TURBINE SUPPLIERWESTINGHOUSE
DATE COMMERCIAL OPERATE DECEMBER 21, 1976	REGULATORY INFORMATION
CONDENSER COOLING METHODONCE THRU	IE REGION RESPONSIBLEII
CONDENSER COOLING WATERATLANTIC OCEAN	IE RESIDENT INSPECTORC. FEIERABEND
ELECTRIC RELIABILITY COUNCIL	LICENSING PROJ MANAGERD. SELLS DOCKET NUMBER
RELIABILITY COUNCIL	LICENSE & DATE ISSUANCEDPR-67, MARCH 1, 1976
	PUBLIC DOCUMENT ROOMINDIAN RIVER COMMUNITY COLLEGE LIBRARY

5209 VIRGINIA AVENUE FT. PIERCE, FLORIDA 33450

# INSPECTION STATUS

# INSPECTION SUMMARY

+ NO INSPECTIONS CONDUCTED.

# ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

DURING REFUELING OUTAGE, THE THERMAL SHIELD WITHIN THE REACTOR VESSEL WAS FOUND TO BE BROKEN. THE SHIELD HAS BEEN REMOVED. FACILITY ITEMS (PLANS AND PROCEDURES):

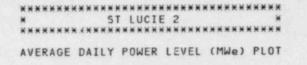
EXTENDED OUTAGE, RESTART PLANNED IN EARLY 1984.

ST LUCIE 1 STATUS - (CONTINUED) INSPECTION Report Period SEP 1984 \*\*\*\*\*\*\*\* OTHER ITEMS MANAGERIAL ITEMS: NONE. PLANT STATUS: NORMAL OPERATIONS. LAST IE SITE INSPECTION DATE: JULY 15 - AUGUST 11, 1984 INSPECTION REPORT NO: 50-335/84-23 REPORTS FROM LICENSEE SUBJECT DATE OF DATE OF NUMBER REPORT EVENT \_\_\_\_\_ THE REACTOR WAS TRIPPED BY THE RPS ON A LOSS OF A LOAD SIGNAL, THE PRESSURE TRANSMITTER WAS 84-006 07/26/84 08/27/84 REPAIRED.

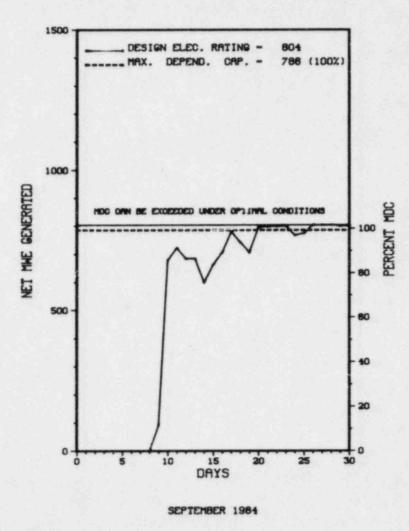
PAGE 2-305

\*\*\*\*\*\*\*\*

1.	Docket: _50-389_	OPERAI	TINGS	TATUS
2.	Reporting Period: _09/01/2	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: N. W. G	RANT (305)	552-3675	
4.	Licensed Thermal Power (M	Mf):		2560
5.	Nameplate Rating (Gross M	We):	0850	
6.	Design Electrical Rating	(Net MWe):		804
7.	Maximum Dependable Capaci	ty (Gross M	1We):	832
8.	Maximum Dependable Capaci	ty (Net MWa	a):	786
9.	If Changes Occur Above Sin	nce Last Re	aport, Give	Reasons:
11.	Power Level To Which Rest Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVI 10,080.
13.	Hours Reactor Critical	577.9	6,380.9	9,607.
14.	Rx Reserve Shtdwn Hrs	. 0		
15.	Hrs Generator On-Line	513.2	6,179.7	9,310.
16.	Unit Reserve Shtdwn Hrs	. 0		
17.	Gross Therm Ener (MWH)	1,242,195	15,623,970	23,281,91
18.	Gross Elec Ener (MWH)	402,980	5,216,680	7,759,90
19.	Net Elec Ener (MWH)	375,570	4,929,859	7,327,44
20.	Unit Service Factor	71.3	94.0	
21.	Unit Avail Factor	71.3	94.0	92.
22.	Unit Cap Factor (MDC Net)	66.4	95.4	92.
23.	Unit Cap Factor (DER Net)	64.9	93.3	90.
24.	Unit Forced Outage Rate	19.2	4.2	6,
25.	Forced Outage Hours	121.9	272.5	647.
26.	Shutdowns Sched Over Next	6 Months	Type, Date, D	)uration):
	REFUELING, OCTOBER 13, 19	84, 5 WEEKS	5.	
27.	If Currently Shutdown Est	imated Star	rtup Date:	N/A



ST LUCIE 2



4 .

Report	Period SI	EP 19	84		ИИ	I T	SHU	троы	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
08	08/31/84		121.9	н	4			HF	ZZZZZZ	EXCESSIVE JELLYFISH IN INTAKE CANAL PREVENTED PLANT OPERATION.
0 °	09/06/84	s	84.9	В	9			нн	ZZZZZZ	THE ABOVE OUTAGE WAS CONTINUED TO PERFORM MAINTENANCE ON THE SECONDARY SYSTEM. THE UNIT RETURNED TO OPERATION INITIALLY AT REDUCED LOAD DUE TO SECONDARY CHEMISTRY REQUIREMENTS AND TURBINE CONTROLS.
10	09/14/84	F	0.0	н	5			HF	ZZZZZZ	POWER WAS REDUCED FOR ABOUT 3 HOURS DUE TO EXCE®SIVE JELLYFISH IN INTAKE CANAL.

.

ST. LUCIE 2 EXPERIENCED 2 DUTAGES AND 1 POWER REDUCTION IN SEPTEMBER.

# \* SUMMARY \* \*\*\*\*\*\*\*\*

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)

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PAGE 2-307

#### FACILITY DESCRIPTION

LOCATION STATE......FLORIDA COUNTY......ST LUCIE DIST AND DIRECTION FROM NEAREST POPULATION CTR ...12 MT 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

# FACILITY DATA

Report Period SEP 1984

# UTILITY & CONTRACTOR INFORMATION

UTILITY

CORPORATE ADDRESS......9250 WEST FLAGLER ST., P.O. BOX 529100 MIAMI, FLORIDA 33152

CONTRACTOR ARCHITEC 'ENGINEER.....EBASCO

NUC STEAM SYS SUPPLIER...COMBUSTION ENGINEERING

CONSTRUCTOR......EBASCO

TURBINE SUPPLIER.....WESTINGHOUSE

# REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....C. FEIERABEND

LICENSING PROJ MANAGER....D. SELLS DOCKET NUMBER.....50-389

LICENSE & DATE ISSUANCE....NPF-16, JUNE 10, 1983

PUBLIC DOCUMENT ROOM.....INDIAN RIVER COMMUNITY COLLEGE LIBRARY 3209 VIRGINIA AVENUE FT. PIERCE, FLORIDA 33450

# INSPECTION STATUS

## INSPECTION SUMMARY

+ NO INSPECTIONS CONDUCTED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

PERFORMING STARTUP TESTING.

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

*******	***********************	×
×	ST LUCIE 2	×
*********	**********************	×

# JTHER ITEMS

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

NORMAL OPERATION.

LAST IE SITE INSPECTION DATE: JULY 15 - AUGUST 11, 1984

INSPECTION REPORT NO: 50-389/84-25

19.1

# REPORTS FROM LICENSEE

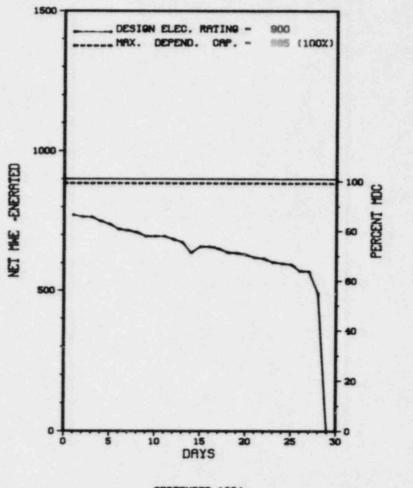
NUMBER DATE OF DATE OF SUBJECT EVENT REPORT

NONE.

	Utility Contact: <u>G. A. L</u>			
	Licensed Thermal Power (M			2775
	Nameplate Rating (Gross M			
	Design Electrical Rating			900
	Maximum Dependable Capaci			and the spectrum of the
	Maximum Dependable Capaci			
9.	If Changes Occur Above Si	nce Last R	eport, Give	Reasons:
	Power Level To Which Rest			
	Reasons for Restrictions,			
-	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 	6,575.0
13.	Hours Reactor Critical	669.9	5,253.5	5,253.5
14.	Rx Reserve Shtdwn Hrs			(
15.	Hrs Generator On-Line	669.8	5,095.6	5,095.6
16.	Unit Reserve Shtdwn Hrs			
17.	Gross Therm Ener (MWH)	1,405,054	12,876,704	12,876,704
18.	Gross Elec Ener (MWH)	469,450	4,286,303	4,286,303
19.	Net Elec Ener (MWH)	444,922	4,083,883	4,083,883
20.	Unit Service Factor	93.0		77.5
21.	Unit Avail Factor	93.0		77.5
22.	Unit Cap Factor (MDC Net)	69.8	69.9	70.2
23.	Unit Cap Factor (DER Net)	68.7	69.0	69.0
24.	Unit Forced Outage Rate		11.2	11.2
25.	Forced Outage Hours		644.4	644.4
26.	Shutdowns Sched Over Next	6 Months (	Type, Date, D	uration):

*******	*****	*****	******	******	***
×		UMMER	1		*
******	*****	*****	******	*****	***
AVERAGE	DAILY	POWER	LEVEL	(MWe) P	LOT

SUMMER 1



SEPTEMBER 1984

Repor	Period S	EP 19	84		UN	ΙT	SHU	T	DO	1 W	N	s /	R	E	D	U C	: т	1	0	N	s	**************************************
No.	Date	Type	Hours	Reason	Method	LE	R Number	5	vst	em	Co	ompon	ent	=			Ca	JUS	6	8	Cor	rrective Action to Prevent Recurrence
11	09/28/84	s	50.2	с	3									RE	FU	ELI	ING	6 0	UT	AG	E	COMMENCES.

\*\*\*\*\*\*\*\*\*\* \* SUMMARY \* \*\*\*\*\*\*\*\* SUMMER 1 BEGAN A REFUELING OUTAGE ON SEPTEMBER 28TH.

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)

#### FACILITY DESCRIPTION

LOCATION STATE.....SOUTH CAROLINA

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

# FACILITY DATA

Report Period SEP 1984

# UTILITY & CONTRACTOR INFORMATION

CORPORATE ADDRESS......P.O. BOX 764 COLUMBIA, SOUTH CAROLINA 29202

CONTRACTOR

ARCHITECT/ENGINEER.....GILBERT ASSOCIATES

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

TURBINE SUPPLIER.....GENERAL ELECTRIC

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....C. HEHL

LICENSE & DATE ISSUANCE....NPF-12, NOVEMBER 12, 1982

PUBLIC DOCUMENT ROOM.....FAIRFIELD COUNTY LIBRARY GARDEN & WASHINGTON STREETS WINNSBORD, SOUTH CAROLINA 29180 INSPECTION STATUS

# INSPECTION SUMMARY

+ INSPECTION AUGUST 21-22 (84-24): THIS SPECIAL, UNANNOUNCED INSPECTION INVOLVED 11 INSPECTOR-HOURS ON SITE IN THE EMERGENCY PREPAREDNESS AREA OF PROMPT NOTIFICATION SYSTEM. THE INSPECTION SCOPE WAS LIMITED TO A DETAILED REVIEW OF THE CURRENT OPERATIONAL STATUS OF THE EARLY WARNING SIREN SYSTEM (EWSS), REVIEW OF EWSS OPERATIONAL AND MAINTENANCE PROCEDURES, EWSS TEST PROCEDURES AND THE IMPLEMENTATION THEREOF DURING THE PERIOD APRIL 4, 1984, TO LATE AUGUST 1984. OF THE AREAS INSPECTED, NO VICLATIONS OR DEVIATIONS WERE IDENTIFIED; HOWEVER, MANAGEMENT ATTENTION IS DIRECTED TOWARD ENSURING THAT RELIABILITY OF THE EWSS CONTINUES TO MEET CURRENT FEDERAL CRITERIA.

# ENFORCEMENT SUMMARY

NONE

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

Report Period SEP 1984

OTHER ITEMS

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

NONE.

PLANT STATUS:

+ SHUTDOWN ON SEPTEMBER 28, 1984 FOR REFUELING OUTAGE.

LAST IE SITE INSPECTION DATE: AUGUST 21-22, 1984 +

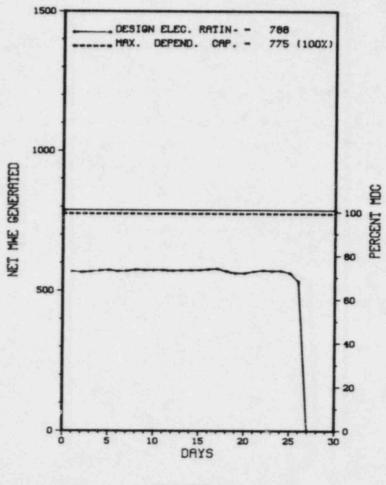
INSPECTION REPORT NO: 50-395/84-24 +

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-032	07/29/84	08/28/84	REACTOR TRIP, THE ERRATIC OPERATION OF THE VALVE WAS ATTRIBUTED TO THE DEADBAND ADJUSTMENT.
84-033	08/02/84	08/31/84	A NORMALLY BOLTED CLOSED FIRE BARRIER CLOSED BUT NOT BOLTED, DUE TO PERSONNEL ERRORS.
84-034	07/24/84	08/23/84	AGASTAT RELAY REPLACEM'NT, DID NOT REQUIRE DELAY TIME CALIBRATION TESTING WAS SUBSEQUENTLY PERFORMED.
84-035	08/15/84	08/29/84	REACTOR BUILDING RADIATION MONITOR INOPERABLE, NC REACTOR BLDG PURGES WERE IN PROGRESS.
84-036	08/08/84	09/07/84	DEGRADED FIRE BARRIER PERSONNEL DISCOVERED MISSING OR DEGRADED KAOWOOL.

1.	. Docket: <u>50-280</u>	OPERA	TINGS	TATUS
	Reporting Period:			
	Utility Contact: VIVIAN			and the second se
	Licensed Thermal Power (M			2441
5.	Nameplate Rating (Gross M	We):	942 X	0.9 = 848
6.	Design Electrical Rating	(Net MWe):		
7.	Maximum Dependable Capaci	ty (Gross		
	Maximum Dependable Capaci			775
	If Changes Occur Above Si NONE		1	
10.	Power Level To Which Rest	ricted, If	Any (Net M	We):
11.	Reasons for Restrictions, NONE	If Any:		
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
13.	Hours Reactor Critical	622.5	5,173.3	64,272.3
14.	Rx Reserve Shtdwn Hrs	. 0	9.3	3,774.5
15.	Hrs Generator On-Line	622.5	5,100.3	62,967.1
6.	Unit Reserve Shtdwn Hrs	. 0	. 0	3,736.2
7.	Gross Therm Ener (MWH)	1,204,039	11,041,688	145,442,301
8.	Gross Elec Ener (MWH)	379,720	3,523,505	46,843,348
9.	Net Elec Ener (MWH)	355,815	3,327,010	44,404,746
	Unit Service Factor	86.5	77.6	61.0
0.				
	Unit Avail Factor	86.5	77.6	64.6
1.				
1.	Unit Avail Factor	63.8	65.3	55.5
1. 2. 3.	Unit Avail Factor Unit Cap Factor (MDC Net)	<u> </u>	65.3	55.5
1. 2. 3.	Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	<u> </u>	<u> </u>	<u> </u>
21. 22. 23. 24. 25.	Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net) Unit Forced Dutage Rate	<u>63.8</u> <u>62.7</u> <u>0</u> <u>0</u>	<u>65.3</u> <u>64.2</u> <u>4.0</u> <u>212.3</u>	<u>55.5</u> <u>54.6</u> <u>20.4</u> <u>12,424.1</u>

×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		
×													S	U	R	R	Y		1																×		
*	×	×	×	×	×	×	*	×	*	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		
A	۷	E	R	A	G	E		D	A	I	L	Y		P	0	W	E	R		L	E	٧	E	L		(	M	W	e	)		P	L	0	T		
													-	51	J	R	R	Y		1																	



SEPTEMBER 1984

Report	Period SEP	1984	UNI	тзни	TDOWNS	R E D U C T I O N S         *         SURRY 1         *           ************************************
	<u>Date</u> T <u>v</u> 09/26/84	pe Hours S 97.5	Method3	LER Number	System Compor	Cause & Corrective Action to Prevent Recurrence REACTOR TRIP CAUSED BY "C" RCP TRIPPING ON INSTANTANEOUS OVERCURRENT. THE FAILURE WAS APPARENTLY THE "A" PHASE CONNECTOR. IT WILL BE REPAIRED BY PERFORMING A FIELD REPLACEMENT OF THE STATOR COIL TEE ON THE MOTOR. COMMENCED REFUELING OUTAGE.

SURRY 1 EXPERIENCED & REACTOR TRIP ON SEPTEMBER 26TH AND REMAINS SHUT DOWN FOR REFUELING.

# \* SUMMARY \*

Type	Reason	Method	Syster + Comporant		
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or est 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 Laad 9-Other	Exhibit F & H Instructions for P. operation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)	de	

#### FACILITY DESCRIPTION

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STATE.....VIRGINIA

COUNTY......SURRY

DIST AND DIRECTION FROM NEAREST POPULATION CTR...17 M\* 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

# FACILITY DATA

Report Period SEP 1984

# UTILITY & CONTRACTOR INFORMATION

CORPORATE ADDRESS.....P.O. BOX 26666 RICHMOND, VIRGINIA 23261

CONTRACTOR ACCHITECT/ENGINEER.....STONE & WEBSTER

NUC STEAM SYS SUPPLIER ... WESTINGHOUSE

CONSIGUCTOR ..... STONE & WEBSTER

TURBINE SUPPLIER.....WESTINGHOUSE

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE ..... II

IE RESIDEN / INSPECTOR.....D. BURKE

LICENSE & DATE ISSUANCE.... DPR-32, MAY 25, 1972

PUBLIC DOCUMENT ROOM......SWEM LIBRARY COLLEGE OF WILLIAM AND MARY WILLIAMSBURG, VIRGINIA 23185

# INSPECTION STATUS

# INSPECTION SUMMARY

+ NO INSPECTIONS CONDUCTED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES): NONE.

Report Period SEP 1984

INSPECTION STATUS -

STATUS - (CONTINUED)

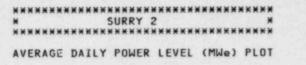
# OTHER ITEMS

MANAGERIAL ITEMS: NONE. PLANT STATUS: REDUCED POWER OPERATION AS RESULT OF A STUCK ROD. LAST IE SITE INSPECTION DATE: JULY 9-11, 1984 INSPECTION REPORT NO: 50-280/84-23 REPORTS FROM LICENSEE

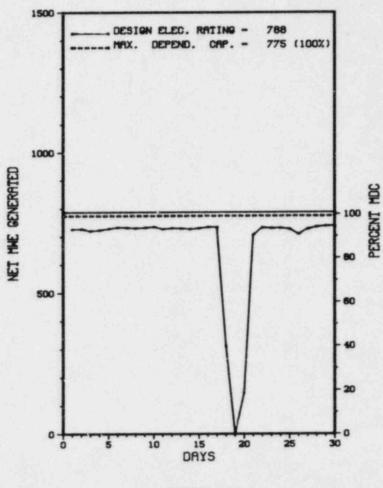
NUMBER DATE OF DATE OF SUBJECT EVENT REPORT

NONE.

11.0				
1.	Docket: _50-281	OPERA	TINGS	TATUS
2.	Reporting Period: _09/01/	84 Outage	e + On-line	Hrs: 720.0
3.	Utility Contact: VIVIAN	H. JONES (	804) 357-31	84
4.	Licensed Thermal Power (M	Mf):		2441
5.	Nameplate Rating (Gross M	We):	942 X	0.9 = 848
6.	Design Electrical Rating	(Net MWe):		788
7.	Maximum Dependable Capaci	ty (Gross I	MWe):	811
8.	Maximum Dependable Capaci	ty (Net MW	e):	775
9.	If Changes Occur Above Sin NONE			Reasons:
10.	Power Level To Which Rest	ricted, If	Any (Net M	We):
11.	Reasons for Restrictions,	I₹ Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	
13.	Hours Reactor Critical	678.3	5,765.9	64,336.
14.	Rx Reserve Shtdwn Hrs	. 0	23.8	23.8
15.	Hrs Generator On-Line	670.7	5,702.3	63,278.
16.	Unit Reserve Shtdwn Hrs	. 0	. 0	
17.	Gross Therm Ener (MWH)	1.634,208	13,530,672	148,246,544
18.	Gross Elec Ener (MWH)	510,765	4,296,550	48,086,409
19.	Net Elec Ener (MWH)	484,061	4,070,622	45,577,68
٠.	Unit for vice Factor	93.2	86.7	63.3
21.	Unit Avail Factor	93.2	86.7	63.3
22.	Unit Cap Factor (MDC Net)	86.7	79,9	58.7
23.	Unit Cap Factor (DER Net)	85.3	78.6	57.8
	Unit Forced Outage Rate	6.8	8.3	13.7
24.		49.3	516.2	7,342.8
	Forced Outage Hours			



SURRY 2



SEPTEMBER 1984

도 하신 입니다. 귀에 가지 않네 또는 것을 하는 것을 했다.

PAGE 2-318

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Report	Period S	EP 19	84		UN	IT	SHU	TDO	W 1	N S		R	E	D	U	c	TI			N S	**************************************
No.	Date	Type	Hours	Reason	Method	LER	Number	Syste	m	Com	pone	ent	-	_	_	C	aus	se	4	Co	rective Action to Prevent Recurrence
84-24	09/18/84	F	49.3	*	1								LI	BO	WS	MO	INC	SE	FR	M	AT LINE TO REPAIR A PIPE LEAK ON "A" MSR TO THE HP DRAIN TANK. SEVERAL NS OF PIPE WERE REPLACED ON THIS LINE UNIT BACK UP.

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

3

IvpeReasonMethodSystem & ComponentF-Force:A-Equip Failure F-Admin1-ManualExhibit F & HS-ScheuB-Maint or Test G-Oper Error<br/>C-Refueling1-Manual ScramInstructions forD-Regulatory Restriction3-Auto ScramPreparation ofE-Operator Training5-Reduced LoadLicense Event Report& License Examination9-Other(LER) File (NUREG-0161)

SURRY 2 INCURRED 1 OUTAGE IN SEPTEMBER AS DESCRIBED ABOVE.

PAGE 2-319

\*\*\*\*\*\* SURRY 2 \*\*\*\*\*\*\*\* 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 RELIABILITY COUNCIL

# FACILITY DATA

Report Period SEP 1984

1.00

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....VIRGINIA ELECTRIC & POWER

CORPORATE ADDRESS.....P.O. BOX 26666 RICHMOND, VIRGINIA 23261

CONTRACTOR ARCHITECT/ENGINEER.....STONE & WEBSIER

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....D. NEIGHBORS DOCKET NUMBER.....50-281

LICENSE & DATE ISSUANCE.... DPR-37, JANUARY 29, 1973

PUBLIC DOCUMENT ROOM......SWEM LIBRARY COLLEGE OF WILLIAM AND MARY WILLIAMSBURG, VIRGINIA 23185

INSPECTION STATUS

INSPECTION SUMMARY

+ NO INSPECTIONS CONDUCTED.

# ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

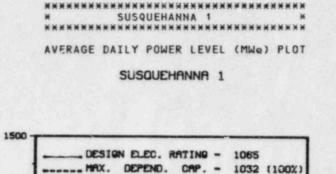
NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

**************************************															PAGE 2-321	
STATUS - (CONTINUED)							- - - - - - - - - - - - - - - - - - -									
NSPECTION						JULY 9-11, 1984	-23	SUBJECT								
1984 I					OPERATIONS.		RT ND: 50-281/84-23	DATE OF DATE OF EVENT REPORT								
Report Period SEP 1984	OTHER ITEMS	MANAGERIAL ITEMS:	NONE.	PLANT STATUS:	NORMAL AT POWER OPERATIONS.	LAST IE SITE INSPECTION DATE:	INSPECTION REPORT NO:	NUMBER DATI	NONE.							

3.	Utility Contact: L. A. K	UCZYNSKI (	717) 542-218	1						
4.	Licensed Thermal Power (M	Mf):		3293						
5.	Nameplate Rating (Gross M	We):	1280-X	0.9 = 1152						
6.	Design Electrical Rating	Design Electrical Rating (Net MWe):								
7.	Maximum Dependable Capaci	MWe):	1068							
8.	Maximum Dependable Capaci	ty (Net MW	e):	1032						
9.	If Changes Occur Above Sin	nce Last R	eport, Give	Reasons:						
	Power Level To Which Rest									
11.	Reasons for Restrictions, NONE	If Any:								
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE						
3.	Hours Reactor Critical	720.0	4,615.4	8,460.7						
4.	Rx Reserve Shtdwn Hrs		209.6	366.3						
5.	Hrs Generator On-Line	720.0	4,490.7	8,259.0						
6.	Unit Reserve Shtdwn Hrs	. 0		(						
17.	Gross Therm Ener (MWH)	2,206,860	13,678,826	24,928,597						
8.	Gross Elec Ener (MWH)	716,120	4,453,730	8,120,280						
19.	Net Elec Ener (MWH)	689,988	4,288,825	7,825,198						
0.	Unit Service Factor	100.0	68.3	71.5						
1.	Unit Avail Factor	100.0	68.3	71.5						
2.	Unit Cap Factor (MDC Net)	92.9	63.2	65.7						
3.	Unit Cap Factor (DER Net)	90.0	61.2	63.6						
4.	Unit Forced Outage Rate	. 0	15.6	13.9						
	Forced Outage Yours	. 0	828.8	1,337.3						
5.			Type, Date, D							



\_\_ MAX. DEPEND. CAP. - 1032 (100%) NOO ORN BE EXCLEDED UNDER OFTIMAL CONDITIONS - 100 1000 NET MME GENERATED PERCENT MDC 80 60 500 40 20 0+ 0 10 15 20 25 n 5 30 DAYS

SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	тт ѕни	троы	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
11	09/15/84	s	0.0	н	5		RC	FUELXX	SCHEDULED POWER REDUCTION TO OPTIMIZE FUEL USE UNTIL REFUELING OUTAGE.
12	09/22/84	s	0.0	н	5		RC	FUELXX	SCHEDULED POWER REDUCTION TO OPTIMIZE FUEL USE UNTIL REFUELING OUTAGE. REPLACEMENT OF REACTOR RECIRCULATION PUMP MOTOR-GENERATOR SET BRUSHES WAS ALSO ACCOMPLISHED.
13	09/29/84	s	0.0	н	5		RC	FUELXX	SCHEDULED POWER REDUCTION TO OPTIMIZE FUEL USE UNTIL REFUELING OUTAGE.

\*\*\*\*\*\*\*\*\*\*\* SUSQUEHANNA 1 OPERATED ROUTINELY IN SEPTEMBER.

# \* SUMMARY \*

Type	Reason	Method	System & Component			
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Err C-Refueling H-Other D-Regulatory Restriction E-Operator Training & License Examination	1-Manual or 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)			

\*\*\*\*\*\*\*\*\*\*\* SUSQUEHANNA 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 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

#### FACILITY DATA

Report Period SEP 1984

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....PENNSYLVANIA POWER & LIGHT

CORPORATE ADDRESS...... 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 ..... R. JACOBS

LICENSING PROJ MANAGER.....R. PERCH DOCKET NUMBER.....50-387

LICENSE & DATE ISSUANCE.... NPF-14, NOVEMBER 12, 1982

PUBLIC DOCUMENT ROOM......OSTERHOUT FREE LIBRARY 71 SOUTH FRANKLIN STREET WILKES-BARRE, PENNSYLVANIA 18701

INSPECTION STATUS

# INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

# ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS: NO INPUT PROVIDED. FACILITY ITEMS (PLANS AND PROCEDURES): NO INPUT PROVIDED.

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

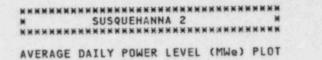
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# OTHER ITEMS

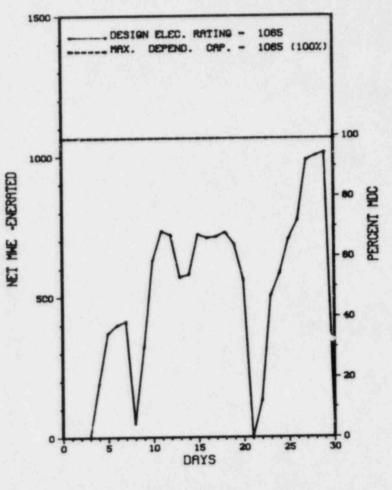
MANAGERIAL ITEMS:
NO INPUT PROVIDED.
PLANT STATUS:
NO INPUT PROVIDED.
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.
INSPECTION REPORT NO: NO INPUT PROVIDED.
REPORTS FROM LICENSEE
NUMBER DATE OF DATE OF SUBJECT Event Report
NO INPUT PROVIDED.

5.	Licensed Thermal Power (MW		111 216 212	9			
5.	riceuzed thermat tomet the	1f):		3293			
	Nameplate Rating (Gross MM						
ο.	Design Electrical Rating (	Net MWe):	1065				
7.	Maximum Dependable Capacit	y (Gross M	We):	1065			
	Maximum Dependable Capacit						
9.	If Changes Occur Above Sir	nce Last Re	port, Give	Reasons:			
11.	Power Level To Which Rest Reasons for Restrictions, NONE	If Any:					
	Report Period Hrs	MONTH	YEAR 2,147.0	CUMULATIVE 2,147.0			
	Hours Reactor Critical		1,653.4	1,653.4			
10.1	Rx Reserve Shtdwn Hrs	and the second se	449.6				
	Hrs Generator On-Line		1,333.7				
		. 0					
16.	Unit Reserve Shtdwn Hrs						
	Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH)	1, 182, 556	2, 127, 542	2, 127, 542			
17.			2,127,542				
17. 18.	Gross Therm Ener (MWH)	374,820		629,070			
17. 18. 19.	Gross Therm Ener (MWH) Gross Elec Ener (MWH)	374,820	629,070	629,070			
17. 18. 19. 20.	Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH)	<u>374,820</u> <u>356,012</u>	629,070	<u>629,070</u> 587,463			
17. 18. 19. 20. 21.	Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor	<u>374,820</u> <u>356,012</u>	<u>629,070</u> <u>587,463</u>	<u>629,078</u> <u>587,463</u>			
17. 18. 19. 20. 21. 22.	Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor	<u>374,820</u> <u>356,012</u>	629,070 587,463 NOT IN	<u>629,070</u> <u>587,463</u>			
17. 18. 19. 20. 21. 22. 23.	Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	<u>374,820</u> <u>356,012</u>	629,070 587,463 NOT IN COMMERCIA	<u>629,070</u> <u>587,463</u>			
17. 18. 19. 20. 21. 22. 23. 24.	Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	<u>374,820</u> <u>356,012</u>	629,070 587,463 NOT IN COMMERCIA OPERATION	<u>629,07(</u> <u>587,46</u>			

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# SUSQUEHANNA 2



SEPTEMBER 1904

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Report	Period SI	EP 19	84		UN	IT SHU	TDOW	NS / 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
9	08/28/84	F	72.2	A	4	84-017	НА	VALVEX	REACTOR SCRAM FOLLOWING TURBINE TRIP ON MOISTURE SEPARATOR DRAIN TANK HIGH LEVEL. CAUSE FOR HIGH LEVEL WAS MALFUNCTIONING DRAIN VALVE ON PIPING FROM HIGH PRESSURE TURBINE EXHAUST TO MOISTURE SEPARATOR.
10	09/08/84	F	20.4	A	3	84-018	HA	INSTRU	REACTOR SCRAMMED AS A RESULT OF A TURBINE CONTROL VALVE FAST CLOSURE SIGNAL.
11	09/13/84	F	0.0	В	5		CB	INSTRU	POWER REDUCTION FOR REACTOR RECIRCULATION SYSTEM TROUBLESHOOTING.
12	09/20/84	5	37.3	В	3		ZZ	222222	REACTOR SCRAM OCCURRED AS PART OF SCHEDULED STARTUP TESTING.
13	09/30/84	F	22.7	н	3	84-021			REACTOR SCRAM DUE TO TURBINE TRIP ON HIGH MOISTURE SEPARATOR DRAIN TANK LEVEL.

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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)

# FACILIT 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

CONDENSER COOLING METHOD...CC, HNDCT

CONDENSER COOLING WATER....SUSQUEHANNA RIVER

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

# FACILITY DATA

Report Period SEP 1984

# UTILITY & CONTRACTOR INFORMATION

UTILITY

LICENSEE..... PENNSYLVANIA POWER & LIGHT

CONTRACTOR ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELECTRIC

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....I

IE RESIDENT INSPECTOR.....L. PLISCO

LICENSE & DATE ISSUANCE....NPF-22, JUNE 27, 1984

PUBLIC DOCUMENT ROOM .....

# 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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Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

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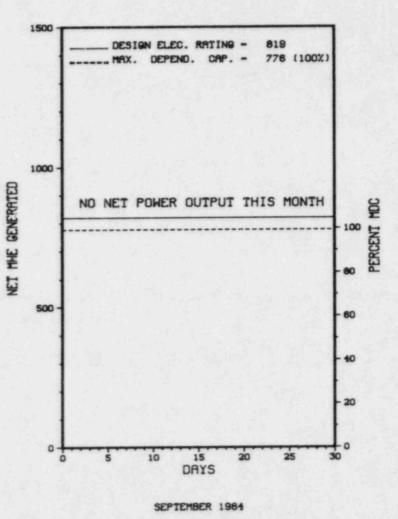
# OTHER ITEMS

MANAGERIAL	ITEMS:										
NO INPUT P	ROVIDED.										
PLANT STAT	US:										
NO INPUT P	ROVIDED.										
LAST IE SI	TE INSPECTIO	ON DATE: N	O INPUT PR	OVIDED.							
INSPECTION	REPORT NO:	NO INPUT	PROVIDED.								
				REP	ORTS	FROM	LIC	ENSE	E		
				======	======		=======			 	 *********
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT							 	 

NO INPUT PROVIDED.

1.	Docket: 50-289 0	PERAT	INGS	TATUS
2.	Reporting Period: 09/01/8	4 Outage	+ On-line	Hrs: 720.0
3.	Utility Contact: C. W. SM	YTH (717) 9	48-8551	
4.	Licensed Thermal Power (MW		2535	
5.	Nameplate Rating (Gross MN	968 X 0	.9 = 871	
6.	Design Electrical Rating (	Net MWe):		819
7.	Maximum Dependable Capacit	y (Gross MW	le):	840
	Maximum Dependable Capacit			
9.	If Changes Occur Above Sin	ce Last Rep	ort, Give	Reasons:
	NONE			
10.	Power Level To Which Restr	icted, If A	iny (Net MW	e):
11.	Reasons for Restrictions,	If Any:		
	NONE			
		MONTH		CUMULATIVE
100	Report Period Hrs	720.0		
	Hours Reactor Critical			31,731.8
14.	Rx Reserve Shtdwn Hrs	.0		839.5
10.1	Hrs Generator On-Line	. 0		31,180.9
16.	Unit Reserve Shtdwn Hrs	. 0		.0
17.	Gross Therm Ener (MWH)	0	0	
18.	Gross Elec Ener (MWH)	0		25,484,330
19.	Net Elec Ener (MWH)	0		23,840,053
20.	Unit Service Factor	0		35.3
21.	Unit Avail Factor	, 0	. 0	35.3
22.	Unit Cap Factor (MDC Net)			34.5
23.	Unit Cap Factor (DER Net)	. 0	. 0	32.9
	Unit Forced Outage Rate			
25.	Forced Outage Hours	720.0	6,575.0	49,700.5
26.	Shutdowns Sched Over Next NONE			
	If Currently Shutdown Esti	mated Start	tun Date:	N/A

THREE MILE ISLAND 1



\* Item calculated with a Weighted Average

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Report	Period SI	EP 19	84		UN	ΙT	SHU	TDOW	N S		*	E D U C T I O N S *********************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	r	oren	nt	Cause & Corrective Action to Prevent Recurrence	_
1	02/17/79	F	720.0	D	4			ZZ	ZZ	ZZZZ		REGULATORY RESTRAINT ORDER CONTINUES.	

\*\*\*\*\*\*\*\*\*\* THREE MILE ISLAND 1 REMAINS SHUT DOWN FOLLOWING THE ACCIDENT AT UNIT 2. \* SUMMARY \* \*\*\*\*\*

Type	Reason	a strange and	Method	System & Component
F-Forced S-Sched	B-Maint or Test	H-Other riction ng	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)

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## 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

# FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE.....GPU NUCLEAR CORP.

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

LICENSE & DATE ISSUANCE.... DPR-50, APRIL 19, 1974

PUBLIC DOCUMENT ROOM......GOVERNMENT PUBLICATIONS SECTION STATE LIBRARY OF PENNSYLVANIA FORUM BUILDING COMMONWEALTH AND WALNUT STREET HARRISBURG, PENNSYLVANIA 17105

# INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

# ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

Report Period SEP 1984

Report Period SEP 1984

4

INSPECTION STATUS - (CONTINUED)

# OTHER ITEMS

8

NO INPUT PROVIDED.

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

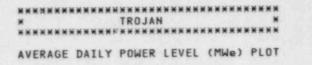
LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

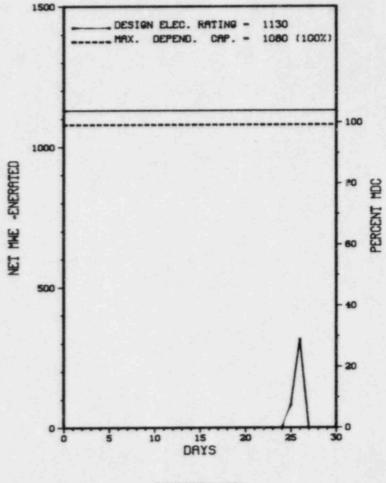
# REPORTS FROM LICENSEE

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

1.	Docket: 50-344 0	PERAT	ING S	TATUS						
2.	Reporting Period: 09/01/84 Outage + On-line Hrs: 720.0									
3.	Utility Contact: G. G. BA	IR (503) 5	56-3713 X23	14						
	Licensed Thermal Power (MW			3411						
5.	Nameplate Rating (Gross MW	1280 X	0.95 = 1216							
6.	Design Electrical Rating (		1130							
7.	Maximum Dependable Capacit	y (Gross M	We):	1122						
8.	Maximum Dependable Capacit	y (Net MWe	):	1080						
9.	If Changes Occur Above Sin NONE	ce Last Re	port, Give	Reasons:						
10.	Power Level To Which Restr	icted, If	Any (Net M	le):						
11.	Reasons for Restrictions,	If Any:								
	NONE									
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 70,847.0						
13.	Hours Reactor Critical	90.4	_2,884.0	41,734.3						
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	3,875.4						
15.	Hrs Generator On-Line	35.3	2,811.5	40,365.6						
16.	Unit Reserve Shtdwn Hrs	. 0	. 0	3,237.0						
17.	Gross Therm Ener (MWH)	44,159	9,155,905	127,719,758						
18.	Gross Elec Ener (MWH)	11,349	2,951,664	41,527,155						
19.	Net Elec Ener (MWH)	-3,126	2,804,999	39,219,025						
20.	Unit Service Factor	4.9	42.8	57.0						
21.	Unit Avail Factor	4.9	42.8	61.5						
22.	Unit Cap Factor (MDC Net)			51.3						
23.	Unit Cap Factor (DER Net)	. 0	37.8	49.0						
24.	Unit Forced Outage Rate	88.0	9.9	17.6						
	Forced Outage Hours									
26.	Shutdowns Sched Over Next	6 Months (	Type, Date, 1	Duration):						







SEPTEMBER 1984

Report	Period S	EP 19	84		UN	тт сни	тром	NS / R	EDUCTIONS * TROJAN *
No.	Date	Туре	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-07	04/27/84	s	416.3	с	3	84-06	TA	ZZZZZZ	FINISHED ANNUAL REFUELING/MAINTENANCE OUTAGE WHICH BEGAN AT 1827 ON APRIL 27.
84-08	09/20/84	F	163.3	G	3	84-16	SH	PUMPXX	REACTOR TRIP ON INTERMEDIATE RANGE HIGH FLUX DUE TO OPERATOR FAILURE TO BLOCK. EDG AND DIESEL AFP FAILED TO AUTO START ON SAFETY INJECTION FROM HIGH STEAM FLOW WITH LOW-LOW TAVG. MANAGEMENT HOLD ON STARTUP (SEE SUMMARY).
84-09	09/25/84	s	8.6	В	9				POWER REDUCED BELOW 10% AND TURBINE TRIPPED FOR STARTUP TESTING. REACTOR KEPT CRITICAL LESS THAN 10%.
84-10	09/26/84	F	96.5	A	3	84-17	СН	INSTRU	PRESSURE TRANSMITTER ON MFP SUCTION FAILED LOW; POWER REDUCED AND TURBINE TRIPPED. REACTOR TRIP ON LOW-LOW STEAM GENERATOR LEVEL. ONE STEAM LINE SAFETY VALVE STUCK OPEN. TRANSMITTER REPLACED AND SAFETY VALVE RESET.

TROJAN COMPLETED REFUELING ON SEPTEMBER 25TH AND EXPERIENCED 3 ADDITIONAL SHUTDOWNS DURING THE REPORTING PERIOD. \*\*\*\*\*

\* SUMMARY \*

5

Type	Reason	Method	System & Component	
F-Forced S-Sched	A-Equip Failure F-Admin 3-Maint or Test G-Oper Error C-Refueling H-Other D-Regulatory Restriction E-Operator Training & License Examination	1-Manual 2-Munual 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)	

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#### FACILITY DESCRIPTION

## FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

CORPORATE ADDRESS.....121 S.W. SALMON STREET PORTLAND, OREGON 97204

CONTRACTOR ARCHITECT/ENGINEER .....BECHTEL

NUC STEAM ST: SUPPLIER ... WESTINGHOUSE

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....GENERAL ELFCTRIC

#### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....G. JOHNSTON

LICENSE & DATE ISSUANCE..., NPF-1, NOVEMBER 21, 1975

PUBLIC DOCUMENT ROOM......MULTNOMAH COUNTY LIBRARY SOCIAL SCIENCES & SCIENCE DEPARTMENT 801 SW 10TH AVENUE PORTLAND, DREGON 97205

#### INSPECTION SUMMARY

+ INSPECTION ON AUGUST 13-17, 1984 (REPORT NO. 50-344/84-20) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF THE PROCEDURES PROGRAM, UNRESOLVED ITEMS RELATED TO REACTOR UPFLOW MODIFICATION AND FUSE SEPARATION ON SAFETY RELATED SYSTEMS, AND ON-SITE PLANT MODIFICATION PROGRAM. THE INSPECTION INVOLVED 66 INSPECTOR-HOURS ONSITE AND TWO INSPECTOR-HOURS IN-OFFICE.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON AUGUST 7 - SEPTEMBER 30, 1984 (REPORT NO. 50-344/84-21) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON OCTOBER 28 - NOVEMBER 1, 1984 (REPORT NO. 50-344/84-23) REPORT CANCELLED. + INSPECTION ON AUGUST 27-31, 1984 (REPORT NO. 50-344/84-24) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF THE PLANT TEST AND EXPERIMENTS PROGRAM, ANNUAL REVIEW OF THE QUALITY ASSURANCE PROGRAM, AND INSPECTION OF THE SURVEILLANCE PROCEDURES AND RECORDS PROGRAM. THE INSPECTION INVOLVED 34 INSPECTOR-HOURS ONSITE BY ONE NRC INSPECTOR.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON SEPTEMBER 17-21, 1984 (REPORT NO. 50-344/84-25) AREAS INSPECTED: ROUTINE, UNANNOUNCED INSPECTION OF THE CALIBRATION PROGRAM OF SAFETY RELATED SYSTEMS AND FUNCTIONS, AND INDEPENDENT INSPECTION EFFORT. THE INSPECTION INVOLVED 39 INSPECTOR-HOURS ONSITE BY ONE NRC INSPECTOR.

PAGE 2-336

## Report Period SEP 1984

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON SEPTEMBER 10 - OCTOBER 31, 1984 (REPORT NO. 50-344/84-26) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

- + INSPECTION ON OCTOBER 15-19, 1984 (REPORT NO. 50-344/84-27) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON SEPTEMBER 11-19, 1984 (REPORT NO. 50-344/84-28) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- + INSPECTION ON SEPTEMBER 20-25, 1984 (REPORT NO. 50-344/84-29) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

#### ENFORCEMENT SUMMARY

10 CFR 50, APPENDIX B, CRITERION XVII, REQUIRES THAT SUFFICIENT RECORDS SHALL BE MAINTAINED TO FURNISH EVIDENCE OF ACTIVITIES AFFECTING QUALITY. SECTION III.M OF MAINTENANCE PROCEDURE MP-3-1, "CALIBRATION OF MAINTENANCE EQUIPMENT," REQUIRES THAT, "IF ANY OUT-OF-SPECIFICATION READINGS WERE DISCOVERED DURING CALIBRATION, OR IF ANY MALFUNCTION IS NOTED WITH A PIECE OF TEST EQUIPMENT, AN INVESTIGATION TO DETERMINE THE VALIDITY OF PREVIOUS TESTS, MEASUREMENTS, AND OPERATIONS PERFORMED WITH THIS INSTRUMENT DURING THE INTERVAL IN QUESTION SHALL BE PERFORMED AND A TEST EQUIPMENT MAINTENANCE HISTORY SHEET (FORM EM-19) WILL BE FILLED IN..." CONTRARY TO THE REQUIREMENT, ON 8/2/83, A TEST EQUIPMENT MAINTENANCE HISTORY SHEET WAS NOT FILLED OUT TO DOCUMENT THE EVALUATION OF TORQUE WRENCH TESTER T5575 WHICH WAS FOUND TO BE OUT OF CALIBRATION AND/OR DAMAGED.

(8411 5)

THE LICENSEE QA PROGRAM AND ADMINISTRATIVE ORDER AO 6-2 REQUIRE TEMPORARY PLANT MODIFICATIONS TO BE EVALUATED AND CONTROLLED. CONTRARY TO THE REQUIREMENT, A TEMPORARY DEMINERALIZER SYSTEM WAS INSTALLED WITHOUT BEING CONTROLLED OR EVALUATED AS REQUIRED.

(8417 4)

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

+ MAIN GENERATOR HYDROGEN LEAKAGE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

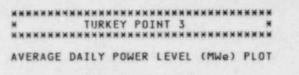
+ 100 PERCENT POWER

LAST IE SITE INSPECTION DATE: 10/23-11/01/84+

Report Perio	d SEF 1984		INSPE	CTION	STATUS - (CONT	INUED) ************************************
THER ITEMS						
INSPECTION	REPORT NO:	50-344/	84-23+			
					S FROM LICE	
NUMBER	DATE OF	DATE OF REPORT	SUBJECT			
NONE						
						***************************************

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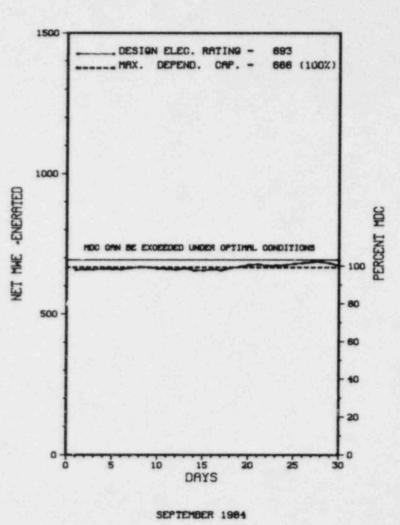
1.	Docket: _50-250	OPERA	TINGS	TATUS						
2.	. Reporting Period: <u>09/01/84</u> Outage + On-line Hrs: <u>720.0</u>									
3.	Utility Contact: N W. G	RANT (305)	552-3675							
4.	Licensed Thermal Power (MWt): 2200									
5.	Nameplate Rating (Gross MWe): 894 X 0.85 = 760									
6.	Design Electrical Rating (Net MWe): 693									
7.	Maximum Dependable Capacity (Gross MWe):									
8.	Maximum Dependable Capaci	ty (Net MW	e):	656						
9.	If Changes Occur Above Since Last Report, Give Reasons: NONE									
10.	Power Level To Which Rest	ricted, If	Any (Net M	we):						
11.	Reasons for Restrictions,	If Any:								
	NONE									
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 103,640.6						
13.	Hours Reactor Critical	720.0	5,613.3	73,638.6						
14.	Rx Reserve Shtdwn Hrs	0	. 0	844.3						
15.	Hrs Generator On-Line	720.0	5,503.8	71,426.0						
16.	Unit Reserve Shtdwn Hrs	. 0		121.8						
17.	Gross Therm Ener (MWH)	1,562,568	11,812,047	147,300,639						
18.	Gross Elec Ener (MWH)	504,485	3,798,785	47,009,350						
19.	Net Elec Ener (MWH)	480,213	3,600,637	44,513,654						
20.	Unit Service Factor	100.0	83.7	68.9						
21.	Unit Aviil Factor	100.0	83.7	69.0						
22.	Unit Cap Factor (MDC Net)	100.1	82.2	<u>66.3</u> *						
23.	Unit Cap Factor (DER Net)	96.2	79.0	62.0						
24.	Unit Forced Outage Rate		8.4	5.6						
25.	Forced Outage Hours		502.8	3,682.9						
	Shutdowns Sched Over Next NONE	6 Months (	Type,Date,I	Duration):						
	If Currently Shutdown Est	imated Star	tup Date:	NZA						



TURKEY POINT 3

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\* Item calculated with a Weighted Average

40

Report Period SEP 1984	UNIT SHUTD	IOWNS / R	EDUCTIONS * TURKEY POINT 3 *
No. Date Type Hours Reason	Method LER Number Sv	stem Component	Cause & Corrective Action to Prevent Recurrence
NONE			

1	vpe	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 Pestriction 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)

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#### FACILITY DESCRIPTION

STATE.....FLORIDA

COUNTY.....DADE

DIST AND DIRECTION FROM NEAREST POPULATION CTR...25 MI S OF MIAMI, FLA

TYPE OF REACTOR ..... PWR

DATE INITIAL CRITICALITY... OCTOBER 20, 1972

DATE ELEC ENER 1ST GENER. .. NOVEMBER 2, 1972

DATE COMMERCIAL OPERATE.... DECEMBER 14, 1972

CONDENSER COOLING METHL ... CLOSED CANAL

CONDENSER COOLING WATER....CLOSED CYCLE CANAL

ELECTRIC RELIABILITY

COUNCIL......SOUTHEASTERN ELECTRIC RELIABILITY COUNCIL

# FACILITY DATA

Report Period SEP 1984

### UTILITY & CONTRACTOR INFORMATION

UTILITY

CONTRACTOR ARCHITECT/ENGINEER.....BECHTEL

NUC STEAM SYS SUPPLIER. ... WESTINGHOUSE

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER.....WESTINGHOUSE

### REGULATORY INFORMATION

IE REGION RESPONSIBLE.....II

IE RESIDENT INSPECTOR.....T. PEEBLES

LICENSE & DATE ISSUANCE.... DPR-31, JULY 19, 1972

PUBLIC DOCUMENT ROOM......ENVIRONMENTAL AND URBAN AFFAIRS LIBRARY FLORIDA INTERNATIONAL UNIVERSITY MIAMI, FLORIDA 33199

#### INSPECTION SUMMARY

+ INSPECTION AUGUST 14-17 (84-26): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 31 INSPECTOR-HOURS ON SITE IN THE AREAS OF REACTOR COOLANT SYSTEM LEAKAGE, FOLLOW-UP OF LICENSEE EVENT REPORT, AND FOLLOWUP OF INSPECTOR IDENTIFIED ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

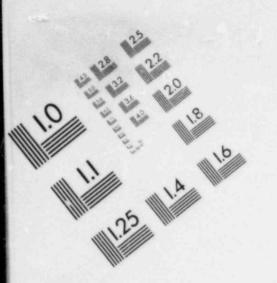
#### ENFORCEMENT SUMMARY

TECHNICAL SPECIFICATION 3.8.5 - AFW PUMP AVAILABILITY.

FAILURE TO IMPLEMENT MANAGEMENT CONTROLS. TECHNICAL SPECIFICATION 3.8.5 - AFW PUMP AVAILABILITY.

FAILURE TO IMPLEMENT MANAGEMENT CONTROLS. (8404 3)

### OTHER ITEMS



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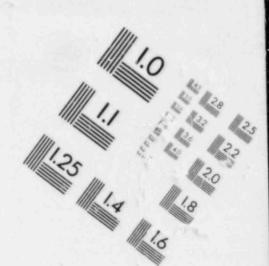
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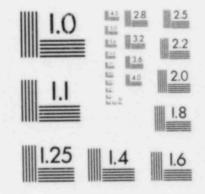
IMAGE EVALUATION TEST TARGET (MT-3)

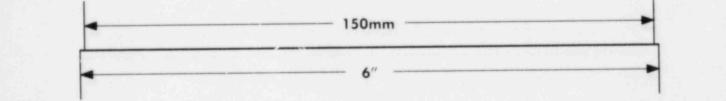


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\*\*\*\*\*\* \* TURKEY POINT 3 \*

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE.

MANAGERIAL ITEMS:

PEP IN PROGRESS.

PLANT STATUS:

+ NORMAL OPERATIONS.

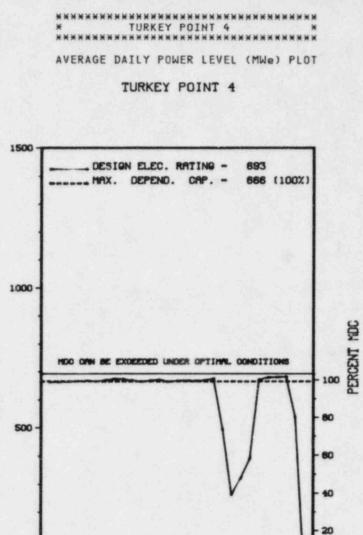
LAST IE SITE INSPECTION DATE: AUGUST 14-17, 1984 +

INSPECTION REPORT NO: 50-250/84-26 +

# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-021	07/14/84	08/13/84	REACTOR TRIP - THE REACTOR TRIP SIGNAL WAS CAUSED BY A POWER INTERRUPTION OF THE SOURCE RANGE NUCLEAR INSTRUMENTATION CONTROL POWER.
84-022	07/21/84	08/20/84	MISSED SURVEILLANCE - A LICENSED OPERATOR OVERSIGHT THAT RESULTED IN THE CALCULATION NOT BEING DONE.

1.	Docket: 50-251	OPERAI	TINGS	TATUS
2.	Reporting Period: _09/01/	84 Outage	a + On-line	Hrs: 720.0
3.	Utility Contact: N. W. G	RANT (305)	552-3675	
4.	Licensed Thermal Power (M	Wt):		2200
5.	Nameplate Rating (Gross M	We):	894 X	0.85 = 760
6.	Design Electrical Rating	(Net MWe):		693
7.	Maximum Dependable Capaci	ty (Gross M	1We):	700
8.	Maximum Dependable Capaci	ty (Net MWe	a):	666
9.	If Changes Occur Above Si NONE		eport, Give	Feasons:
10.	Power Level To Which Rest		Any (Net M	le):
	Reasons for Restrictions,			
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 97,368.0
13.	Hours Reactor Critical	658.5	3,806.7	68,445.5
14.	Rx Reserve Shtdwn Hrs			166.6
15.	Hrs Generator On-Line	655.3	3,639.9	66,108.3
16.	Unit Reserve Shtdwn Hrs			31.2
17.	Gross Therm Ener (MWH)	1,369,268	7,914,159	139,669,900
18.	Gross Elec Ener (MWH)	440,655	2,462,485	44,383,847
19.	Net Elec Ener (MWH)	417,936	2,320,533	42,027,641
20.	Unit Service Factor	91.0	55.4	67.9
21.	Unit Avail Factor	91.0	55.4	67.9
22.	Unit Cap Factor (MDC Net)	87.2	53.0	66.6
23.	Unit Cap Factor (DER Net)	83.8	50.9	62.3
	Unit Forced Outage Rate	1.9	18.7	5.4
24.		12 9	837.2	3,379.0
	Forced Outage Hours		and the second s	



15 DAYS

SEPTEMBER 1984

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\* Item calculated with a Weighted Average

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Report	Period S	EP 19	84		UN	ІТ ЅНИ	TDOW	NS / R	E D U C T I O N S *********************************
No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
20	09/20/84	F	12.9	A	3	251-84-21	EB	GENERA	REACTOR TRIP AS A RESULT OF STEAM FLOWFEED FLOW MISMATCH AND LOW STEAM GENERATOR LEVEL FOLLOWING A TURBINE RUNBACK. THE RUNBACK RESULTED FROM A BLOWN FUSE IN AN INVERTER, WHICH GAVE A DROPPED ROD SIGNAL. THE FUSE WAS REPLACED AND THE UNIT RETURNED TO POWER.
21	09/28/84	s	51.8	В	1		CB	VALVEX	UNIT 4 REMOVED FROM POWER OPERATION TO REPAIR LEAKAGE TO THE PRESSURIZER RELIEF TANK.

\*\*\*\*\*\*\*\*\*\* \* SUMMARY \* TURKEY POINT 4 OPERATED ROUTINELY IN SEPTEMBER.

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

#### FACILITY DESCRIPTION

LOCATION STATE.....FLORIDA

COUNTY.....DADE

DIST AND DIRECTION FROM NEAREST POPULATION CTR...25 MI S OF MIAMI, FLA

TYPE OF REACTOR ..... PWR

DATE INITIAL CRITICALITY...JUNE 11, 1973

DATE ELEC ENTR 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

### FACILITY DATA

Report Period SEP 1984

### UTILITY & CONTRACTOR INFORMATION

UTILITY

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.....T. PEEBLES

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 AUGUST 14-17 (84-27): THIS ROUTINE, UNANNOUNCED INSPECTION ENTAILED 31 INSPECTOR-HOURS ON SITE IN THE AREAS OF REACTOR COOLANT SYSTEM LEAKAGE, FOLLOW-UP OF LICENSEE EVENT REFORT, AND FOLLOWUP OF INSPECTOR IDENTIFIED ITEMS. NO VIOLATIONS OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

NONE

#### OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

# NONE.

FACILITY ITEMS (PLANS AND PROCEDURES):

*****	***	*****	******	**********
×		TURKEY	Y POINT	4 ×
*****	****	*****	*******	***********

# OTHER ITEMS

+ NONE.

MANAGERIAL ITEMS:

PEP IN PROGRESS.

PLANT STATUS:

+ SHUTDOWN FOR MAINTENANCE.

LAST IE SITE INSPECTION DATE: AUGUST 14-17, 1984 +

INSPECTION REPORT NO: 50-251/84-27 \*

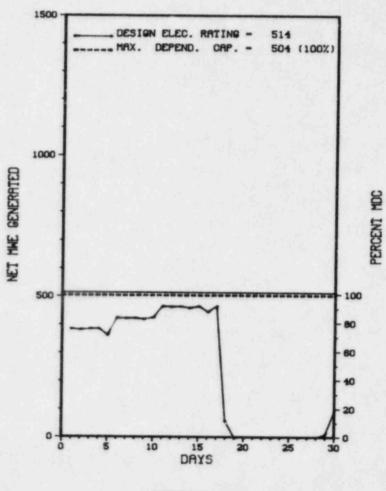
# REPORTS FROM LICENSEE

NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
84-016	06/24/84	09/04/84	MANUAL INITIATION OF THE AUXILIARY FEEDWATER SYSTEM OCCURRED, THE HOTWELL REJECT REGULATOR WAS FOUND TO HAVE FAILED OPEN.
84-017	08/07/84	09/06/84	ENGINEERED SAFETY FEATURE ACTUATION - REACTOR TRIP, CAUSE WAS DETERMINED TO STEM FROM AN INCORRECT SWITCHING ORDER FROM THE FOSSIL UNITS 1 AND 2.

1,	Docket: 50-271 0	PERAT	ING S	TATUS				
2.	Reporting Period: _09/01/8	4 Outage	+ On-line	Hrs: 720.0				
3.	Utility Contact: F. J. BU	RGER (802)	257-7711	x 136				
4.	Licensed Thermal Power (MW	lt):		1593				
5.	Nameplate Rating (Gross MW	le):	626 X	626 X 0,9 = 563				
6.	Design Electrical Rating (	Net MWe):		514				
7.	Maximum Dependable Capacit	y (Gross M	We):	535				
8.	Maximum Dependable Capacit	:	504					
9.	If Changes Occur Above Sin NONE	ce Last Re	port, Give	Reasons:				
10.	Power Level To Which Restr	icted, If	Any (Net M	We):				
11.	Reasons for Restrictions,	If Any:						
	NONE							
	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE 105,433.8				
13.	Hours Reactor Critical	463.0	4,929.1	84,627.6				
14.	Rx Reserve Shtdwn Hrs	. 0	. 0	. 0				
15.	Hrs Generator On-Line	435.8	4,761.8	82,254.3				
16.	Unit Reserve Shtdwn Hrs	. 0	. 0	0				
17.	Gross Therm Ener (MWH)	588,189	7,054,496	119,215,168				
18.	Gross Elec Ener (MWH)	190,453	2,368,314	39,661,392				
19.	Net Elec Ener (MWH)	177,944	2,259,680	37,624,696				
20.	Unit Service Factor	60.5	72.4	78.0				
21.	Unit Avail Factor	60.5	72.4	78.0				
22.	Unit Cap Factor (MDC Net)	49.0	68.2	70.8				
23.	Unit Cap Factor (DER Net)	48.1	66.9	69.4				
24.	Unit Forced Outage Rate	39.5	9.9	7.5				
25.	Forced Outage Hours	284.2	521.6	5,412.8				
26.	Shutdowns Sched Over Next NONE	6 Months (	Type, Date, I	Duration):				
27	If Currently Shutdown Esti	mated Star	tun Data:	10/01/84				

×	*	63	*	×	×	×	×	×	×	×	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	¥	×	×	¥
×										V	E	R	M	0	N	T		Y	A	N	K	E	Ε		1											×
*	*	63	*	×	×	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	*	×	×	×	×	×	×	×	×	×	×	×
A	V	11	E	R	A	G	E		D	A	I	L	Y		P	0	u	E	R		L	E	V	E	L		(	M	W	e	)		P	L	0	T

VERMONT YANKEE 1



SEPTEMBER 1984

Report	Period SI	EP 198	84		UN	IT	SHU	TDOW	NS / R	E D U C T I O N S * VERMONT YANKEE 1 * ********************************
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Component	Cause & Corrective Action to Prevent Recurrence
84-15	09/05/84	S	0.0	В	5			RB	CONROD	POWER REDUCTION FOR CONTROL ROD PATTERN ADJUSTMENT + OTHER SURVEILLANCE.
84-16	09/18/84	F	275.2	н	1	84-21		RA	XXXXXX	PLANT SHUTDOWN TO INVESTIGATE AND CORRECT STEAM CARRY-UNDER CAUSED BY UNTIGHTENED MOISTURE SEPARATOR IN THE REACTOR VESSEL. SEPARATOR WAS RE-INSTALLED AND CONTROLLING PROCEDURES CHANGED TO PREVENT RE-OCCURRENCE.
84-17	09/30/84	F	9.0	A	1			CD	VALVOP	PLANT SHUTDOWN TO INVESTIGATE AND REPAIR SLOW MSIV CLOSING TIME CAUSED BY GALLED GUIDE RODS ON VALVE ACTUATOR. THE ACTUATOR WAS REBUILT AND RETURNED TO SERVICE.

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)

### FACILITY DESCRIPTION

### FACILITY DATA

#### UTILITY & CONTRACTOR INFORMATION

UTILITY

CORPORATE ADDRESS...... 1671 WORCESTER ROAD FRAMINGHAM, MASSACHUSETTS 01701

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

LICENSE & DATE ISSUANCE.... DPR-28, FEBRUARY 28, 1973

PUBLIC DOCUMENT ROOM.....BROOKS MEMORIAL LIBRARY 224 MAIN STREET BRATTLEBORD, VERMONT 05301 INSPECTION STATUS

INSPECTION SUMMARY

NO INSPECTION INPUT PROVIDED.

#### ENFORCEMENT SUMMARY

NONE

# OTHER ITEMS

SYSTEMS AND COMPONENTS:

NO INPUT PROVIDED.

FACILITY ITEMS (PLANS AND PROCEDURES):

NO INPUT PROVIDED.

Report Period SEP 1984

# OTHER ITEMS

MANAGERIAL ITEMS:

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

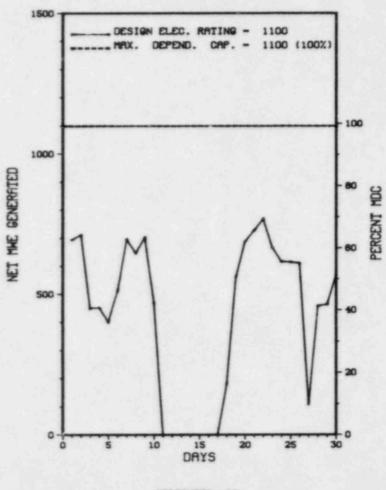
INSPECTION REPORT NO: NO INPUT PROVIDED.

# REPORTS FROM LICENSEE

		**********		 	 	 	
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT				
	PROVIDED.			 	 	 	
an turni	PROVIDED.						

	Utility Contact: LEONARD									
4.	Licensed Thermal Power (MWt):									
5.	Nameplate Rating (Gross M	Ne):	1100							
6.	Design Electrical Rating (Net MWe):1100									
7.	Maximum Dependable Capacity (Gross MWe): 1155									
8.	Maximum Dependable Capacit	ty (Net MWe	):	1100						
9.	If Changes Occur Above Sin	nce Last Re	port, Give	Reasons:						
10.	Power Level To Which Rest	ricted, If	Any (Net MW	le):						
	Reasons for Restrictions,	If Any:								
	NONE									
12.	Report Period Hrs	MONTH 720.0	YEAR 3,026.2	CUMULATIVE 3,026.2						
		552.5	1,670.3	1,670.3						
13.	Hours Reactor Critical	236.2	the second							
	Hours Reactor Critical Rx Reserve Shtdwn Hrs	.0	.0							
14.			. 0							
14. 15.	Rx Reserve Shtdwn Hrs	. 0	. 0							
14. 15. 16.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line	.0	<u>.0</u>							
14. 15. 16. 17.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs	0 	<u>.0</u> <u>1,184.3</u> <u>.0</u>	1, 184.3 						
14. 15. 16. 17. 18.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH)	.0 521.1 .0 1,041,120	.0 1,184.3 .0 1,885,312	1, 184.3 						
14. 15. 16. 17. 18.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH)	.0 521.1 .0 1.041.120 .327.150	.0 1,184.3 .0 1,885,312 526,613	1, 184.3 						
14. 15. 16. 17. 18. 19. 20.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH)	.0 521.1 .0 1.041.120 .327.150	.0 1,184.3 .0 1,885,312 526,613	1, 184.3 						
14. 15. 16. 17. 18. 19. 20.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor	.0 521.1 .0 1.041.120 .327.150	.0 1,184.3 .0 1,885,312 526,613 485,244	1, 184.3 						
14. 15. 16. 17. 18. 19. 20. 21. 22.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor	.0 521.1 .0 1.041.120 .327.150	0 0 0 1,885,312 526,613 485,244 NOT IN							
14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	.0 521.1 .0 1.041.120 .327.150								
14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Rx Reserve Shtdwn Hrs Hrs Generator On-Line Unit Reserve Shtdwn Hrs Gross Therm Ener (MWH) Gross Elec Ener (MWH) Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net) Unit Cap Factor (DER Net)	0 0 1.041.120 327.150 306.634								

WASHINGTON NUCLEAR 2



SEPTEMBER 1984

Report	Period SI	EP 19	84		UN	IT S	ни	TDOW	NS / R	E D U C T I O N S
No.	Date	Type	Hours	Reason	Method	LER NU	mber	System	Component	Cause & Corrective Action to Prevent Recurrence
84-19	09/10/84	F	180.8	В	2	84-095		IA	INSTRU	A TEST SWITCH WHICH WAS INTENDED FOR A TEST TRIP OF BOTH RRC PUMPS WAS INADVERTENTLY CONNECTED TO THE RPS LOGIC. WHEN CLOSED IN, IT RESULTED IN THE FAILURE OF POWER FUSES TO ALL FOUR RPS CHANNELS AND A RESULTANT SCRAM. THE CAUSE OF THE PROBLEM WAS DETERMINED WHILE THE PLANT WAS PROCEEDING TO COLD SHUTDOWN. THE FUSES WERE REPLACED AND THE PROCEDURE SUBSEQUENTLY PERFORMED.
84-20	09/27/84	F	18.1	В	1			СВ	INSTRU	PLANT WAS SHUTDOWN DUE TO FAILURE OF THE LINEAR VARIABLE DIFFERENTIAL TRANSFORMER (LVDT) FOR RRC-V-60B. THIS FAILURE WAS A RESULT OF THE DIFFERENTIAL TRANSFORMER CORE BECOMING DETACHED FROM THE ACTUATING ROD. THE LVDT WAS REPLACED WITH ANOTHER OF IMPROVED DESIGN.

\*\*\*\*\*\*\*\*\*\* WNP-2 CONTINUES IN POWER ASCENSION AND TESTING.

<u>Ivee</u>	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)

#### 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 SENER... MAY 27, 1984

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

CONDENSER COOLING METHOD...COOLING TOWERS

CONDENSER COOLING WATER ... . MECHANICAL TOWERS

ELECTRIC RELIABILITY

COUNCIL......WESTERN SYSTEMS COORDINATING COUNCIL

### FACILITY DATA

# UTILITY & CONTRACTOR INFORMATION

UTILITY

CORPORATE ADDRESS......P.O. BOX 968 RICHLAND, WASHINGTON 99352

CONTRACTOR ARCHITECT/ENGINEER.....BURNS & ROE

anona revir enveneent titte voor a nee

NUC STEAM SYS SUPPLIER...GENERAL ELECTRIC

CONSTRUCTOR.....BECHTEL

TURBINE SUPPLIER ..... WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....V

IE RESIDENT INSPECTOR.....R. FEIL

LICENSE & DATE ISSUANCE....NPF-21, APRIL 13, 1984

PUBLIC DOCUMENT ROOM......RICHLAND PUBLIC LIBRARY SWIFT AND NORTHGATE STREETS RICHLAND, WA 99352

# INSPECTION STATUS

#### INSPECTION SUMMARY

\* INSPECTION ON AUGUST 4-31, 1984 (REPORT NO. 50-397/84-22) AREAS INSPECTED: ROUTINE, MONTHLY INSPECTION BY THE RESIDENT INSPECTORS OF CONTROL ROOM OPERATIONS, ENGINEERED SAFETY FEATURE STATUS, SURVEILLANCE PROGRAM, MAINTENANCE PROGRAM, POWER ASCENSION TEST PROGRAM, LICENSEE EVEN) REPORTS, SPECIAL INSPECTION TOPICS, AND LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS. THE INSPECTION INVOLVED 176 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON AUGUST 27-31, 1984 (REPORT NO. 50-397/84-23) AREAS INSPECTED: ROUTINE, UNANNOUNCED SAFETY INSPECTIONS OF PLANT MAINTENANCE ACTIVITY LEVEL, FOLLOWUP OF FOUR TMI (NUREG-0737) ITEMS AND OBSERVATION OF CONTROL ROOM ACTIVITIES. THE INSPECTION INVOLVED 65 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

+ INSPECTION ON AUGUST 20-24, 1984 (REPORT NO. 50-397/84-24) AREAS INSPECTED: ROUTINE, UNANNOUNCED SAFETY INSPECTION OF FOLLOWUP OF PREVIOUS INSPECTION FINDINGS, GENERAL EMPLOYEE TRAINING, NON-LICENSED TRAINING, QUALIFICATION AND CONTROL OF VENDOR SERVICE CONTRACT PERSONNEL, AND FOLLOWUP OF TMI (NUREG-0737) ITEMS. THE INSPECTION INVOLVED 64 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS.

RESULTS: NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

PAGE 2-354

Report Period SEP 1984

INSPECTION STATUS - (CONTINUED)

### INSPECTION SUMMARY

\* INSPECTION ON SEPTEMBER 10-13, 1984 (REPORT NO. 50-397/84-25) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

+ INSPECTION ON SEPTEMBER 1-30, 1984 (REPORT NO. 50-397/84-26) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.

- + INSPECTION REPORT NO. 50-397/84-27 REPORT CANCELLED.
- + INSPECTION ON OCTOBER 9-12, 1984 (REPORT NO. 50-397/84-28) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- \* INSPECTION ON SEPTEMBER 10-14, 1984 (REPORT NO. 50-397/84-29) REPORT BEING PREPARED; TO BE REPORTED NEXT MONTH.
- \* INSPECTION ON SEPTEMBER 11-19, 1984 (REPORT NO. 50-397/84-30) 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:

MODE 4

LAST IE SITE INSPECTION DATE: 10/9-12/84+ INSPECTION REPORT NO: 50-397/84-28+

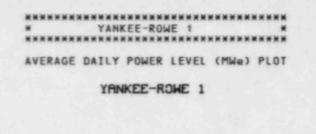
# REPORTS FROM LICENSEE

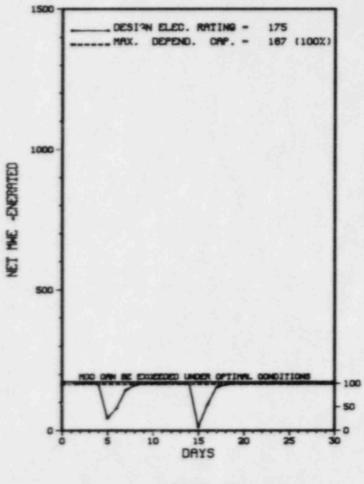
# 

NUMBER	DATE OF EVENT	REPORT	SUBJECT
			ROD BLOCK FUEL MOVEMENT INTERLOCK LOST
84-02-L0	01-11-84	02-10-84	CONTROL ROOM EMERGENCY FILTRATION STARTED AS A RESULT OF ELECTRICAL SPIKES
84-18-L0	03-06-84	03-28-84	ESF AIR SUPPLY ACTIVITATED DUE TO PROCEDURAL ERROR
84-19-84	03-08-84	03-28-84	INADVERTANT START OF ESF CONTROL ROOM AIR SYSTEM FROM PERSONNEL ERROR
84-20-L0	03-29-84	04-03-84	LOSS OF ACCESS CONTROL DUE TO MULTIPLEXER FAILURES PROMPTLY COMPENSATED W/MANNED POSTS
84-43-10	05-19-84	06-14-84	FAILURE TO RESET HALF SCRAM CAUSED FEED PUMP RUNBACK AND LOW RX LEVEL SCRAM
84-44-L0	05-13-84	06-12-84	HIGH PRESSURE RX TRIP FROM DEH SYSTEM
84-45-L0	05-18-84	06-14-84	MSIU CLOSURE DUE TO LOW DEH PRESSURE
84-45-L0	05-22-84	06-14-84	SPIKE INITIATES CONTROL ROOM ESF AIR SYSTEM
84-47-L0	05-25-84	06-15-84	PENETRATION FIRE PROTECTION SEAL NOT INSTALLED
84-48-L0	05-30-84	06-25-84	FUSES WERE INAPPROPRIATELY APPLIED IN 250 VOLT DC SYSTEM
84-49-L0	05-22-84	06-20-84	ELECTRICAL SPIKE INITIATED CONTROL ROOM AIR FILTRATION
84-50-L0	05-26-84	06-22-84	ESF CONTROL ROOM FANS ACTIVATED DUE TO ELECTRICAL SPIKE
84-51-L0	05-28-84	06-22-84	LOSS OF FEEDPUMPS CAUSED RX SRAM DUE TO LOW RX LEVEL
84-52-L0	05-28-84	06-22-84	ESF CONTROL ROOM FILTER ACTIVATED DUE TO ELECTRICAL SPIKE
84-53-L0	05-28-84	06-22-84	ESF AIR FILTRATION SYSTEM ACTIVATES FROM ELECTRICAL SPIKE
84-54-L0	05-29-84	06-25-84	TURBINE FIRST STAGE PRESSURE SPIKE CAUSED RX SCRAM AT LESS THAN 30 PERCENT POWER
84-55-L0	05-28-84	06-22-84	HIGH DELTA PRESSURE ISOLATED RCIC AT NO-FLOW CONDITIONS
84-56-L0	06-01-84	06-28-84	DEH FAILURE CAUSED BPU'S TO CLOSE AND SCRAM RX ON HIGH PRESSURE
84-57-L0	06-05-84	06-28-84	HIGH CHLORINE SIGNAL-END OF SENSOR TAPE
84-58-L0	06-07-84	06-28-84	TECH INADVERTENTLY INITIATED CONTROL ROOM AIR FILTRATION

Report Perinc	SEP 1984	REPO	RTS FROM LICENSEE - (CONTINUED) * WASHINGTON NUCLEAR 2 ************************************
84-63-L0	06-17-84	07-12-84	CONTROL ROOM ACTIVATION OF AIR FILTRATION DUE TO ELECTRICAL SPIKE
84-64-L0	06-23-84	07-12-84	BAD CONNECTION ON BREAKER CAUSES RP POWER DISTRIBUTION PANEL TRIP AND 1/2 SCRAM
84-65-L0	06-23-84	07-12-84	RHR PUMP TO MOTOR COUPLING DEGRADATION CAUSES INOP RHR PUMP
84-66-L0	06-20-84	07-12-84	CONTROL ROOM AIR FILTRATION ACTIVATED
84-67-L0	06-20-84	07-12-84	CONTROL ROOM AIR FILTRATION ACTIVATION DUE TO ELECTRICAL SPIKE
84-68-L0	06-28-84	07-19-84	CONTROL ROOM AIR FILTRATION ACTIVATION DUE TO ELECTRICAL SPIKE
84-69-L0	06-28-84	07-19-84	CONTROL ROOM FILTRATION ACTIVATED DUE TO ELECTRICAL SPIKE
84-70-L0	06-30-84	07-19-84	SURVEILLANCE OF DG WITHOUT PRE-WARM
84-71-L0	07-16-84	07-26-84	INADVERTENT CONTAINMENT ISOLATION OF HALF BOP
84-72-L0	07-05-84	07-26-84	RWCY(CLEANUP) ISOLATION FROM FALSE HIGH FLOW SIGNALS
84-74-L0	07-12-84	08-02-84	DISCHARGE OF LIQUID WASTE DONE IMPROPERLY
84-75-L0	07-09-84	08-02-84	EMERGENCY DIESEL GENERATOR SHAFT INSULATOR DESTROYED CAUSING VIBRATION
84-76-L0	07-28-84	08-08-84	FIRE WATCH NOT TOURING DURING BOMB THREAT
84-77-10	07-20-84	08-08-84	CONTROL ROOM AIR FILTER SYSTEM ACTIVATED DUE TO ELECTRICAL SPIKE

	Licensed Thermal Power (MW	t):		600
5.	Nameplate Rating (Gross MW	le):	185 X 1	.0 = 185
6.	Design Electrical Rating (	Net MWe):	1.1	175
7.,	Maximum Dependable Capacit	y (Gross M	1We):	190
8.	Maximum Dependable Capacit	y (Net MWe	:	167
	If Changes Occur Above Sin NONE	ce Last Re	eport, Give	Reasons:
0.	Power Level To Which Restr	icted, If	Any (Net MW	le):
11.	Reasons for Restrictions,	If Any:		
	NONE			
12.	Report Period Hrs	MONTH 720.0	YEAR 6,575.0	CUMULATIVE
3.	Hours Reactor Critical	694.2	4,259.4	165,783.7
4.	Rx Reserve Shtdwn Hrs	. 0	0	.0
5.	Hrs Generator On-Line	688.0	4,149.5	161,061.8
6.	Unit Reserve Shtdwn Hrs	0		
-	Gross Therm Ener (MWH)	390,298	2,367,733	87,251,327
			722,723	26,445,589
7.	Gross Elec Ener (MWH)	117,493		
7.				24,744,960
7. 8. 9.	Net Elec Ener (MWH)	109,875		
7. 8. 9.	Net Elec Ener (MWH)	109,875	<u>676,571</u> 63.1	
7. 8. 9. 1.	Net Elec Ener (MWH) Unit Service Factor	109,875 95.6 95.6	<u>676,571</u> <u>63.1</u> <u>63.1</u>	<u> </u>
7. 8. 9. 1.	Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor	109.875 95.6 95.6 91.4	<u>676,571</u> <u>63,1</u> <u>63,1</u> <u>61,5</u>	<u>77.0</u> <u>77.0</u> <u>72.8</u>
7. 8. 9. 1. 2.	Net Elec Ener (MWH) Unit Service Factor Unit Avail Factor Unit Cap Factor (MDC Net)	109,875 95.6 95.6 91.4 87.2	<u>676,571</u> <u>63.1</u> <u>63.1</u> <u>61.5</u> <u>58.8</u>	77.0 77.0 72.8 69.4





SEPTEMBER 1984

Item calculated with a Weighted Average

PAGE 2-358

PERCENT NOC

Repo	ort Period S	EP 19	84		UN	I T	SHU	TDOW	N S	5 / 5	E D U C T I O N S *********************************	
No.	Date	Type	Hours	Reason	Method	LER	Number	System	Con	ponent	Cause & Corrective Action to Prevent Recurrence	-
84-7	09/05/84	F	15.5	н	2	84-1	5				LOSS OF Z-126 LINE DUE TO A TREE FALLING ONTHE LINE NEAR HARRIMAN STATION.	
84-8	09/15/84	F	16.5		3	84-1	6	TL	Đ	xc	LOSS OF FIELD RELAY, STATIC EXCITER "B" PHASE, CAUSING 62-GTX RELAY TO FIRE.	

YANKEE ROWE OPERATED ROUTINELY IN SEPTEMBER.

# \*\*\*\*\*\*\*\*\*\*\* \* SUMMARY \*

Type	Reason	Method	System & Component		
F-Forced S-Sched	A-Equip Failure F-Admin 8-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)		

PAGE 2-359

.

\*\*\*\*\*\*\*\*\* YANKEE-ROWE 1 -\*

# FACILITY DESCRIPTION

LOCATION STATE......MASSACHUSETTS

COUNTY ..... FRANKLIN

DIST AND DIRECTION FROM NEAREST POPULATION CTR...25 MI NE OF PITTSFIELD, MASJ

TYPE OF REACTOR ..... PWR DATE INITIAL CRITICALITY... AUGUST 19, 1960

DATE ELEC ENER IST GENER ... NOVEMBER 10, 1960

DATE COMMERCIAL OPERATE .... JULY 1, 1961

CONDENSER COULING METHOD ... ONCE THRU

CONDENSER COOLING WATER .... DEERFIELD RIVER

ELECTRIC RELIABILITY COUNCIL ..... NORTHEAST POWER

COORDINATING COUNCIL

# FACILITY DATA

### UTILITY & CONTRACTOR INFORMATION

UTILITY 

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.....P. ERICKSON 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

NONE

### OTHER ITEMS

SYSTEMS AND COMPONENTS: NO INPUT PROVIDED. FACILITY ITEMS (PLANS AND PROCEDURES): NO INPUT PROVIDED.

PAGE 2-360

Report Period SEP 1984

Report Period SEP 1984 INSPECTION STATUS - (CONTINUED)

\*\*\*\*\*\*\* YANKEE-ROWE 1 \* \*\*\*\*\*\*\*\*\*

# OTHER ITEMS

			EMS :

NO INPUT PROVIDED.

PLANT STATUS:

NO INPUT PROVIDED.

LAST IE SITE INSPECTION DATE: NO INPUT PROVIDED.

INSPECTION REPORT NO: NO INPUT PROVIDED.

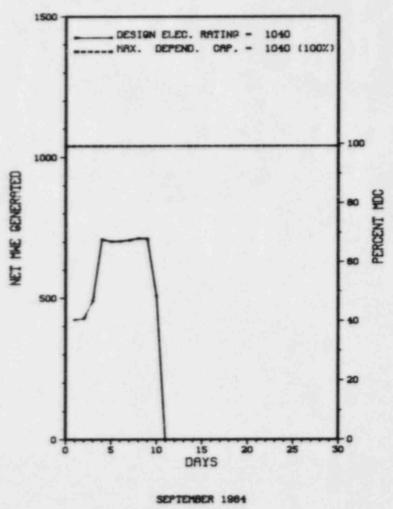
# REPORTS FROM LICENSEE

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

12. Report Period Hrs       720.0       6.575.0       94,247.1         13. Hours Reactor Critical       235.2       4,266.9       66,343.1         14. Rx Reserve Shtdwn Hrs       .0       .0       2,621.3         15. Hrs Generator On-Line       234.8       4,031.1       64,499.5         16. Unit Reserve Shtdwn Hrs       .0       .0       .0         17. Gross Therm Ener (MWH)       502,151       12,192,059       182,113,543         18. Gross Elec Ener (MWH)       .155,490       3,983,844       58,703,723         19. Net Elec Ener (MWH)       .140,396       3,804,71       55,708,011         20. Unit Service Factor       .32.6       .61.3       .68.3         21. Unit Avail Factor       .32.6       .61.3       .68.3         22. Unit Cap Factor (MDC Net)       .18.7       .55.6       .56.3         23. Unit Cap Factor (DER Net)       .18.7       .55.6       .56.3         24. Unit Forced Outage Rate       .67.4       .33.9       .14.3         25. Forced Outage Hours       .485.2       .2,071.4       .10,683.3         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):           NONE       <	1.	Docket: 50-295 0	PERAT	TINGS	TATUS
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.         11. Reasons for Restrictions, If Any:	2.	Reporting Period: 09/01/8	4 Outage	e + On-line	Hrs: 720.0
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         12. Report Period Hrs       720.0         6.575.0       94,267.1         13. Hours Reactor Critical       235.2         14. Rx Reserve Shtdwn Hrs       0         0       0         15. Hrs Generator On-Line       234.8         16. Unit Reserve Shtdwn Hrs       0         17. Gross Therm Ener (MWH)       502,151         12. Gross Elec Ener (MWH)       155,490         14. Gross Elec Ener (MWH)       140,396         15. Unit Service Factor       32.6         16. Unit Service Factor       32.6         17. Gross Therm Ener (MWH)       140,396         18. Gross Elec Ener (MWH)       155,490         19. Net Elec Ener (MWH)       140,396         12. Unit Service Factor       32.6         13. Unit Cap Factor (DER Net)       18.7	3.	Utility Contact: GERRI AU	STIN (312	746-2084	
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         12. Report Period Hrs       720.0         6.575.0       94.247.1         13. Hours Reactor Critical       235.2       4.266.9         14. Rx Reserve Shtdwn Hrs       .0       .0       2.621.3         15. Hrs Generator On-Line       234.8       4.031.1       64.499.1         16. Unit Reserve Shtdwn Hrs       .0       .0           17. Gross Therm Ener (MWH)       502.151       12.192.059       182.113.547         18. Gross Elec Ener (MWH)       155.490       3.983.844       58.703.722         19. Net Elec Ener (MWH)       155.490       3.983.844       58.703.722         19. Net Elec Ener (MWH)       140.396       3.804.71       55.708.011         20. Unit Service Factor       32.6       61.3       63.4         21. Unit Avail Factor       32.6       61.3       63.4         <	4.	Licensed Thermal Power (MW	(t):		3250
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         12. Report Period Hrs         720.0       6,575.0         94,247.1         13. Hours Reactor Critical       235.2         4,266.9       66,343.1         14. Rx Reserve Shtdwn Hrs       .0         .0       .2.621.3         15. Hrs Generator On-Line       234.8         .16. Unit Reserve Shtdwn Hrs       .0         .0       .0         .17. Gross Therm Ener (MWH)       502.151         15. Hrs Generator On-Line       .0         .17. Gross Therm Ener (MWH)       .0         .18. Gross Elec Ener (MWH)       .155,490       3,983,844         .19. Net Elec Ener (MWH)       .140,396       3,804,71       .55,708,011         .20. Unit Service Factor       .32.6       .61.3       .63.4         .21. Unit Avail Factor       .32.6       .61.3       .63.4         .22. Unit Cap Factor (DER Net)       .18.7       .55.6       .56.4<	5.	Nameplate Rating (Gross MW	le):	1220 X	0.9 = 1098
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         12. Report Period Hrs         720.0       6.575.0         94.267.1         13. Hours Reactor Critical       235.2         4.266.9       66.343.1         14. Rx Reserve Shtdwn Hrs       .0         .0       2.621.3         15. Hrs Generator On-Line       234.8         .16. Unit Reserve Shtdwn Hrs       .0         .17. Gross Therm Ener (MWH)       502.151         12.192.059       182.113.543         18. Gross Elec Ener (MWH)       155.490         19. Net Elec Ener (MWH)       140.396         10. Unit Service Factor       32.6         32.6       61.3         33.9       .14.         24. Unit Cap Factor (MDC Net)       .18.7         .18.7       55.6       .56.         23.0       .114.7       .10.6831         24. Unit Forced Outage Rate       .67.4       .33.9       .14.         25. Forced Outage Hours       .485.2       .2071.4	6.	Design Electrical Rating (	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         12. Report Period Hrs         13. Hours Reactor Critical         235.2       4,266.9         66,343.1         14. Rx Reserve Shtdwn Hrs       .0         .0       .2,621.1         15. Hrs Generator On-Line       .0         .17. Gross Therm Ener (MWH)       .0         .18. Gross Elec Ener (MWH)       .0         .19. Net Elec Ener (MWH)       .155,490         .10. Unit Service Factor       .32.6         .11. Unit Avail Factor       .32.6         .11. Unit Cap Factor (DER Net)       .18.7         .11. Unit Forced Outage Rate       .67.4         .21. Unit Forced Outage Rate       .67.4         .22. Forced Outage Hours       .485.2         .20. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):         NONE	7.	Maximum Dependable Capacit	y (Gross !	1We):	1085
NONE           10. Power Level To Which Restricted, If Any (Net MWe):           11. Reasons for Restrictions, If Any:           NONE           12. Report Period Hrs           13. Hours Reactor Critical           235.2         4,266.9           14. Rx Reserve Shtdwn Hrs           0         0           15. Hrs Generator On-Line         234.8           16. Unit Reserve Shtdwn Hrs         0           17. Gross Therm Ener (MWH)         502,151           18. Gross Elec Ener (MWH)         155,490           19. Net Elec Ener (MWH)         140,396           10. Unit Service Factor         32.6           21. Unit Cap Factor (DER Net)         18.7           22. Unit Cap Factor (DER Net)         18.7           23. Unit Forced Outage Rate         67.4           23. Unit Forced Outage Rate         67.4           24. Unit Forced Outage Hours         485.2           25. Forced Outage Hours         485.2           26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	8.	Maximum Dependable Capacit	y (Net MW	e):	1040
10. Power Level To Which Restricted, If Any (Net MWe):         11. Reasons for Restrictions, If Any:         NONE         12. Report Period Hrs       720.0       6,575.0       94,247.1         13. Hours Reactor Critical       235.2       4,266.9       66,343.1         14. Rx Reserve Shtdwn Hrs       .0       .0       2,621.3         15. Hrs Generator On-Line       234.8       4,031.1       64,499.1         16. Unit Reserve Shtdwn Hrs       .0       .0       .0         17. Gross Therm Ener (MWH)       502,151       12,192,059       182,113,543         18. Gross Elec Ener (MWH)       155,490       3,983,844       58,703,723         19. Net Elec Ener (MWH)       140,396       3,804,73       55,708,011         20. Unit Service Factor       32.6       61.3       68.3         21. Unit Avail Factor       32.6       61.3       68.3         22. Unit Cap Factor (DER Net)       18.7       55.6       56.3         23. Unit Cap Factor (DER Net)       18.7       55.6       56.3         24. Unit Forced Outage Rate       67.4       33.9       14.3         25. Forced Outage Hours       485.2       2,071.4       10,683.3         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):	9.	If Changes Occur Above Sin	ce Last R	eport, Give	Reasons:
11. Reasons for Restrictions, If Any:         NONE         12. Report Period Hrs       MONTH 720.0       YEAR 6.575.0       CUMULATIV 94,247.1         13. Hours Reactor Critical       235.2       4,266.9       66,343.1         14. Rx Reserve Shtdwn Hrs       .0       .0       2,621.3         15. Hrs Generator On-Line       234.8       4,031.1       64,499.4         16. Unit Reserve Shtdwn Hrs       .0       .0       .0         17. Gross Therm Ener (MWH)       502,151       12,192,059       182,113,543         18. Gross Elec Ener (MWH)       155,490       3,983,844       58,703,723         19. Net Elec Ener (MWH)       140,396       3,804,73       55,708,013         20. Unit Service Factor       32.6       61.3       68.43         21. Unit Avail Factor       32.6       61.3       68.43         22. Unit Cap Factor (DER Net)       18.7       55.6       56.13         23. Unit Cap Factor (DER Net)       18.7       55.6       56.13         24. Unit Forced Outage Rate       67.4       33.9       14.14         25. Forced Outage Hours       485.2       2,071.4       13,683.13         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):       NONE       NONE </td <td></td> <td>NONE</td> <td></td> <td></td> <td></td>		NONE			
NONE           12. Report Period Hrs         MONTH         YEAR         CUMULATIV           13. Hours Reactor Critical         235.2         4,266.9         66,343.1           14. Rx Reserve Shtdwn Hrs         .0         .0         2,621.3           15. Hrs Generator On-Line         234.8         4,031.1         64,499.4           16. Unit Reserve Shtdwn Hrs         .0         .0         .0         .0           17. Gross Therm Ener (MWH)         502.151         12,192,059         182,113,543           18. Gross Elec Ener (MWH)         155,490         3,983,844         58,703,723           19. Net Elec Ener (MWH)         140,396         3,804,71         55,708,011           20. Unit Service Factor         32.6         61.3         68.4           21. Unit Avail Factor         32.6         61.3         68.4           22. Unit Cap Factor (MDC Net)         18.7         55.6         56.3           23. Unit Cap Factor (DER Net)         18.7         55.6         56.3           24. Unit Forced Outage Rate         67.4         33.9         14.3           25. Forced Outage Hours         485.2         2,071.4         10,683.3           26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):         NONE <td>10.</td> <td>Power Level To Which Restr</td> <td>icted, If</td> <td>Any (Net M</td> <td>le):</td>	10.	Power Level To Which Restr	icted, If	Any (Net M	le):
MONTH       YEAR       CUMULATIV         12. Report Period Hrs       720.0       6.575.0       94.247.1         13. Hours Reactor Critical       235.2       4.266.9       66.343.1         14. Rx Reserve Shtdwn Hrs       .0       .0       2.621.1         15. Hrs Generator On-Line       234.8       4.031.1       64,499.1         16. Unit Reserve Shtdwn Hrs       .0       .0       .0       .1         17. Gross Therm Ener (MWH)       502,151       12,192,059       182,113,541         18. Gross Elec Ener (MWH)       155,490       3,983,864       58,703,722         19. Net Elec Ener (MWH)       140,396       3,804,71       55,708,011         20. Unit Service Factor       32.6       61.3       68.1         21. Unit Avail Factor       32.6       61.3       68.1         22. Unit Cap Factor (MDC Net)       18.7       55.6       56.1         23. Unit Cap Factor (DER Net)       18.7       55.6       56.1         24. Unit Forced Outage Rate       67.4       33.9       14.1         25. Forced Outage Hours       485.2       2,071.4       10.683.1         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):       NONE       NONE	11,	Reasons for Restrictions,	If Any:		
12. Report Period Hrs       720.0       6,575.0       94,247.1         13. Hours Reactor Critical       235.2       4,266.9       66,343.1         14. Rx Reserve Shtdwn Hrs       .0       .0       2,621.3         15. Hrs Generator On-Line       234.8       4,031.1       64,499.4         16. Unit Reserve Shtdwn Hrs       .0       .0       .0         17. Gross Therm Ener (MWH)       502,151       12,192,059       182,113,543         18. Gross Elec Ener (MWH)       .155,490       3,983,844       58,703,723         19. Net Elec Ener (MWH)       .140,396       3,804,71       55,708,011         20. Unit Service Factor       .32.6       .61.3       .68.3         21. Unit Avail Factor       .32.6       .61.3       .68.3         22. Unit Cap Factor (MDC Net)       .18.7       .55.6       .56.3         23. Unit Cap Factor (DER Net)       .18.7       .55.6       .56.3         24. Unit Forced Outage Rate       .67.4       .33.9       .14.3         25. Forced Outage Hours       .485.2       .2,071.4       .10,683.3         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):           NONE       <	_	NONE			
14. Rx Reserve Shtdun Hrs       .0       .0       2.621.3         15. Hrs Generator On-Line       234.8       4.031.1       64.499.5         16. Unit Reserve Shtdun Hrs       .0       .0       .0       .0         17. Gross Therm Ener (MWH)       502.151       12.192.059       182.113.543         18. Gross Elec Ener (MWH)       155.490       3.983.844       58.703.723         19. Net Elec Ener (MWH)       140.396       3.804.71       55.708.013         20. Unit Service Factor       32.6       61.3       68.5         21. Unit Avail Factor       32.6       61.3       68.5         22. Unit Cap Factor (MDC Net)       18.7       55.6       56.3         23. Unit Cap Factor (DER Net)       18.7       55.6       56.3         24. Unit Forced Outage Rate       67.4       33.9       14.2         25. Forced Outage Hours       485.2       2.071.4       10.683.5         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):       NONE	12.	Report Period Hrs			CUMULATIVE
15. Hrs Generator On-Line       234.8       4,031.1       64,499.4         16. Unit Reserve Shtdwn Hrs       .0       .0       .0         17. Gross Therm Ener (MWH)       502.151       12,192.059       182,113,544         18. Gross Elec Ener (MWH)       .155,490       3,983,844       58,703,722         19. Net Elec Ener (MWH)       .160,396       3,804,71       55,708,011         20. Unit Service Factor       .32.6       .61.3       .68.4         21. Unit Avail Factor       .32.6       .61.3       .68.4         22. Unit Cap Factor (MDC Net)       .18.7       .55.6       .56.4         23. Unit Cap Factor (DER Net)       .18.7       .55.6       .56.4         24. Unit Forced Outage Rate       .67.4       .33.9       .14.4         25. Forced Outage Hours       .485.2       .2,071.4       .10,683.4         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):	13.	Hours Reactor Critical	235.2	4,266.9	66,343.0
16. Unit Reserve Shtdwn Hrs       .0       .0       .1         17. Gross Therm Ener (MWH)       502,151       12,192,059       182,113,54         18. Gross Elec Ener (MWH)       .155,490       3,983,844       58,703,72         19. Net Elec Ener (MWH)       .155,490       3,983,844       58,703,72         19. Net Elec Ener (MWH)       .140,396       3,804,71       55,708,01         20. Unit Service Factor       .32.6       .61.3       .68.4         21. Unit Avail Factor       .32.6       .61.3       .68.4         22. Unit Cap Factor (MDC Net)       .18.7       .55.6       .56.3         23. Unit Cap Factor (DER Net)       .18.7       .55.6       .56.3         24. Unit Forced Outage Rate       .67.4       .33.9       .14.3         25. Forced Outage Hours       .485.2       .2,071.4       .10,683.3         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):	14,	Rx Reserve Shtdwn Hrs	0	0	2,621.8
17. Gross Therm Ener (MWH)       502,151       12,192,059       182,113,543         18. Gross Elec Ener (MWH)       155,490       3,983,844       58,703,723         19. Net Elec Ener (MWH)       140,396       3,804,71       55,708,013         20. Unit Service Factor       32.6       61.3       68.9         21. Unit Avail Factor       32.6       61.3       68.9         22. Unit Cap Factor (MDC Net)       18.7       55.6       56.3         23. Unit Cap Factor (DER Net)       18.7       55.6       56.3         24. Unit Forced Outage Rate       67.4       33.9       14.3         25. Forced Outage Hours       485.2       2,071.4       10,683.9         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):       NONE	15.	Hrs Generator On-Line	234.8	4,031.1	64,499.4
18. Gross Elec Ener (MWH)       155,490       3,983,844       58,703,72         19. Net Elec Ener (MWH)       140,396       3,804,71       55,708,011         20. Unit Service Factor       32.6       61.3       68.4         21. Unit Avail Factor       32.6       61.3       68.4         22. Unit Cap Factor (MDC Net)       18.7       55.6       56.4         23. Unit Cap Factor (DER Net)       18.7       55.6       56.4         24. Unit Forced Outage Rate       67.4       33.9       14.4         25. Forced Outage Hours       485.2       2.071.4       10.683.4         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):       NONE       NONE	16.	Unit Reserve Shtdwn Hrs	0	0	
19. Net Elec Ener (MWH)       140,396       3,804,71       55,708,011         20. Unit Service Factor       32.6       61.3       68.4         21. Unit Avail Factor       32.6       61.3       68.4         22. Unit Cap Factor (MDC Net)       18.7       55.6       56.4         23. Unit Cap Factor (DER Net)       18.7       55.6       56.4         24. Unit Forced Outage Rate       67.4       33.9       14.4         25. Forced Outage Hours       485.2       2.071.4       10.683.4         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):       NONE       NONE	17.	Gross Therm Ener (MWH)	502, 151	12, 192, 059	182,113,542
20. Unit Service Factor       32.6       61.3       68.4         21. Unit Avail Factor       32.6       61.3       68.4         22. Unit Cap Factor (MDC Net)       18.7       55.6       56.4         23. Unit Cap Factor (DER Net)       18.7       55.6       56.4         24. Unit Cap Factor (DER Net)       18.7       55.6       56.4         25. Forced Outage Rate       67.4       33.9       14.4         25. Forced Outage Hours       485.2       2.071.4       10.683.4         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):       NONE       NONE	18.	Gross Elec Ener (MWH)	155,490	3,983,844	58,703,723
21. Unit Avail Factor       32.6       61.3       68.         22. Unit Cap Factor (MDC Net)       18.7       55.6       56.3         23. Unit Cap Factor (DER Net)       18.7       55.6       56.3         24. Unit Forced Outage Rate       67.4       33.9       14.3         25. Forced Outage Hours       485.2       2.071.4       10.683.3         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):       NONE	19.	Net Elec Ener (MWH)	140,396	3,804,71	55,708,019
22. Unit Cap Factor (MDC Net)       18.7       55.6       56.3         23. Unit Cap Factor (DER Net)       18.7       55.6       56.3         24. Unit Forced Outage Rate       67.4       33.9       14.3         25. Forced Outage Hours       485.2       2.071.4       10.683.3         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):       NONE	20.	Unit Service Factor	32.6	61.3	68.4
23. Unit Cap Factor (DER Net)       18.7       55.6       56.1         24. Unit Forced Outage Rate       67.4       33.9       14.1         25. Forced Outage Hours       485.2       2.071.4       10.683.1         26. Shutdowns Sched Over Next 6 Months (Type, Date, Duration):       NONE	21.	Unit Avail Factor	32.6	61.3	68.4
24. Unit Forced Outage Rate       67.4       33.9       14.1         25. Forced Outage Hours       485.2       2.071.4       10.683.1         26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration):       NONE	22.	Unit Cap Factor (MDC Net)	18.7	55.6	56.8
25. Forced Outage Hours <u>485.2</u> <u>2,071.4</u> <u>10,683.</u> 26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration): NONE	23.	Unit Cap Factor (DER Net)	18.7	55.6	56.8
26. Shutdowns Sched Over Next 6 Months (Type,Date,Duration): NONE	24.	Unit Forced Outage Rate	67.4	33.9	14.9
NONE	25.	Forced Outage Hours	485.2	2,071.4	10,683.4
	26.	Shutdowns Sched Over Next			
27. If Currently Shutdown Estimated Startup Date:	_		asked Sta	tun Data:	10/05/84

AVERAGE DAILY POWER LEVEL (MWe) PLOT

ZION 1



\*\*\*\*\*\*\*\*\*\* ZION 1 WAS TAKEN OFF LINE ON SEPTEMBER 10TH FOR A STEAM GENERATOR TUBE LEAK AND REMAINS SHUT DOWN.

# \* SUMMARY \*

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)		

\*\*\*\*\*\*\*\* ZION 1 -\*

### 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

# FACILITY DATA

## UTILITY & CONTRACTOR INFORMATION

UTILITY LICENSEE......COMMONWEALTH EDISON

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

NUC STEAM SYS SUPPLIER...WESTINGHOUSE

TURBINE SUPPLIER.....WESTINGHOUSE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....J. WATERS

LICENSING PROJ MANAGER.....J. NORRIS 

LICENSE & DATE ISSUANCE.... DPR-39, OCTOBER 19, 1973

PUBLIC DOCUMENT ROOM ..... ZION - BENTON PUBLIC LIBRARY 2400 GABRIEL AVENUE ZION, ILLINOIS 60099 INSPECTION STATUS

### INSPECTION SUMMARY

INSPECTION ON JULY 23-27, (84-10): ROUTINE, ANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE EMERGENCY PREPAREDNESS PROGRAM: LICENSEE ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; ACTIVATION OF THE EMERGENCY PLAN; EMERGENCY DETECTION AND CLASSIFICATION; PROTECTIVE ACTION DECISIONMAKING; NOTIFICATIONS AND COMMUNICATIONS; CHANGES TO THE EMERGENCY PREPAREDNESS PROGRAM; SHIFT STAFFING AND AUGMENTATION: KNOWLEDGE AND PERFORMANCE OF DUTIES (TRAINING); PUBLIC INFORMATION PROGRAM; MAINTAINING EMERGENCY PREPAREDNESS; AND LICENSEE AUDITS. THE INSPECTION INVOLVED 130 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS AND TWO CONSULTANTS. ONE ITEM OF NONCOMPLIANCE WAS IDENTIFIED IN ONE AREA (MAINTAINING EMERGENCY PREPAREDNESS). NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED IN THE OTHER AREAS INSPECTED.

INSPECTION ON JULY 2 AND AUGUST 1-29, (84-11): SPECIAL, ANNOUNCED INSPECTION BY REGION BASED INSPECTORS OF UNIT 1, 1981 AND 1983 CONTAINMENT INTEGRATED LEAK RATE TESTS (CILRT); WITNESS THE UNIT 1, 1984 CILRT; AND REVIEW UNIT 2, 1980 CILRT. THE INSPECTION INVOLVED 164 INSPECTORS-HOURS ON SITE BY THREE NRC INSPECTORS, INCLUDING 43 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. OF THE THREE AREAS INSPECTED NO ITEMS OF NONCOMPLIANCE OR DEVIATION WERE IDENTIFIED IN TWO AREAS. TWO ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN THE REMAINING AREA (FAILURE TO PERFORM A TYPE A TEST IN ACCORDANCE WITH 10 CFR 50, APPENDIX J REQUIREMENTS -PARAGRAPH 2.A; FAILURE TO PERFORM SUPPLEMENTAL TESTS IN ACCORDANCE WITH 10 CFR 50, APPENDIX J REQUIREMENTS - PARAGRAPH 2.B).

INSPECTION ON JUNE 30 - JULY 27, (84-12): ROUTINE UNANNOUNCED RESIDENT INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS: UNIT 1 SHUTDOWN DUE TO CONTAINMENT LEAK RATE TEST DEFICIENCIES; 10 CFR 21 PEPOPT ON COMPONENT COOLING WATER SYSTEM; REACTOR TRIP FOLLOWING RTD CALIBRATION; REACTOR TRIP DURING INSTRUMENT CALIBRATION; CONDUCT OF MAINTENANCE ON NUCLEAR INSTRUMENTATION: INADVERTENT RELEASE OF CONTENTS OF 28 GAS DECAY TANK; PLANT STARTUP FROM REFUELING; OPERATIONAL SAFETY; ESF PAGE 2-364

Report Period SEP 1984

CHICAGO, ILLINOIS 60690

INSPECTION STATUS - (CONTINUED)

\*\*\*\*\*\* ZION 1 \*\*\*\*\*\*

# INSPECTION SUMMARY

SYSTEM WALKDOWN; MAINTENANCE; SURVEILLANCE; AND LICENSEE EVENT REPORT FOLLOWUP. THIS INSPECTION INVOLVED A TOTAL OF 228 HOURS BY THREE NRC INSPECTORS INCLUDING 71 HOURS ONSITE DURING OFF-SHIFTS. OF THE 13 AREAS INSPECTED, NO ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN 9 AREAS; 6 ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN THE REMAINING 4 AREAS (FAILURE TO COMPLY WITH 10 CFR 50 APPENDIX B; FAILURE TO COMPLY WITH ZION TECHNICAL SPECIFICATIONS; FAILURE TO COMPLY WITH 10 CFR 50.73).

INSPECTION ON AUGUST 17, (84-14): ROUTINE, ANNOUNCED INSPECTION OF REACTOR COOLANT SYSTEM LEAK RATE TESTING. THE INSPECTION INVOLVED & TOTAL OF 14 INSPECTOR-HOURS ONSITE AND & INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS BY TWO NRC INSPECTORS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON AUGUST 20-24, (84-16): ROUTINE UNANNOUNCED INSPECTION OF (1) CONFIRMATORY MEASUREMENTS PROGRAM INCLUDING SAMPLE SPLIT AND ONSITE ANALYSIS WITH THE REGION III MOBILE LABORATORY; REVIEW OF LICENSEE'S LABORATORY PRACTICES AND QUALITY CONTROL; AND INTERNAL AUDITS; (2) RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP) IMPLEMENTATION AND RESULTS; AND (3) REVIEW OF NONCOMPLIANCE AND OPEN ITEMS IDENTIFIED DURING PREVIOUS INSPECTIONS. THE INSPECTION INVOLVED 81 INSPECTOR-HOURS ON SITE BY 2 NRC INSPECTORS. NO APPARENT ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

### ENFORCEMENT SUMMARY

10 CFR 50.54(Q) REQUIRES IN PART THAT A LICENSEE AUTHORIZED TO POSSESS AND/OR OPERATE A NUCLEAR POWER REACTOR SHALL FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE STANDARDS IN 10 CFR 50.47(B) OF THIS PART AND THE REQUIREMENTS IN APPENDIX E TO THIS PART. 10 CFR 50.47(B)(14) STATES IN PART THAT PERIODIC EXERCISES ARE (WILL BE) CONDUCTED TO EVALUATE MAJOR PORTIONS OF EMERGENCY RESPONSE CAPABILITIES, PERIODIC DRILLS ARE (WILL BE) CONDUCTED TO DEVELOP AND MAINTAIN KEY SKILLS. SECTION 8.3.2.6 OF THE GENERIC PORTION OF THE GENERATING STATIONS' EMERGENCY PLAN (GSEP) STATES IN PART THAT AN ASSEMBLY AND ACCOUNTABILITY DRILL SHALL BE CONDUCTED ANNUALLY. CONTRARY TO THE ABOVE, THE LICENSEE HAS NOT CONDUCTED AN ANNUAL ASSEMBLY AND ACCOUNTABILITY DRILL SINCE JANUARY 1983.

(8410 5)

TECHNICAL SPECIFICATIONS LCO 3.10.1.A STATES IN PART THAT, "TYPE A, B, AND C TESTS OF THE CONTAINMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF 10 CFR 50, APPENDIX J...." SECTION III.A.3(A) OF 10 CFR 50, APPENDIX J STATES IN PART THAT, "ALL TYPE & TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN NATIONAL STANDARD N45.4-1972." SECTION 7.6 OF ANSI N45.5-1972 REQUIRES THAT THE TEST PERIOD BE 24 HOURS UNLESS IT CAN BE DEMONSTRATED TO THE SATISFACTION OF THOSE RESPONSIBLE FOR THE ACCEPTANCE OF THE CONTAINMENT STRUCTURE THAT THE LEAKAGE CAN BE ACCURATELY DETERMINED DURING A SHORTER TEST PERIOD. BY LETTER FROM T. J. RAUSCH, NUCLEAR LICENSING ADMINISTRATOR, TO J. G. KEPPLER, REGION III, REGIONAL ADMINISTRATOR, DATED SEPTEMBER 21, 1982 COMMONWEALTH EDISON COMPANY STATES THAT IT "UNDERSTANDS THAT THE ONLY ACCEPTABLE MEANS OF PERFORMING A LESS THAN 24 HOUR TEST IS TO USE BN-TOP-1." CONTRARY TO THE ABOVE ON DECEMBER 5, 1983 A TYPE A TEST OF LESS THAN 24 HOURS WAS PERFORMED ON ZION UNIT 1 NOT IN ACCORDANCE WITH THE REQUIREMENTS OF BN-TOP-1. TECHNICAL SPECIFICATIONS LCO 3.10.1.A STATES IN PART THAT, "TYPE A, B, AND C TESTS OF THE CONTAINMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF 10 CFR 50, APPENDIX J. SECTION III.A.3(B) OF 10 CFR 50. APPENDIX J, STATES IN PART THAT, "THE ACCURACY OF ANY TYPE A TEST SHALL BE VERIFIED BY A SUPPLEMENTAL TEST ...CONDUCTED FOR SUFFICIENT DURATION TO ESTABLISH ACCURATELY THE CHANGE IN LEAKAGE RATE BETWEEN THE TYPE A AND SUPPLEMENTAL TEST ...CONDUCTED FOR SUFFICIENT DURATION TO ESTABLISH ACCURATELY THE CHANGE IN LEAKAGE RATE BETWEEN THE TYPE A AND SUPPLEMENTAL TEST ...CONDUCTED FOR SUFFICIENT DURATION TO ESTABLISH ACCURATELY THE CHANGE IN LEAKAGE RATE BETWEEN THE TYPE A AND SUPPLEMENTAL TEST ...CONDUCTED FOR SUFFICIENT DURATION TO ESTABLISH ACCURATELY THE CHANGE IN LEAKAGE RATE BETWEEN THE TYPE A AND SUPPLEMENTAL TEST." IT ALSO STATES, "IF RESULTS ARE NOT WITHIN 0.25 LA (OR 0.25 LT) THE REASON SHALL BE DETERMINED, CORRECTIVE ACTION TAKEN AND A SUCCESSFUL SUPPLEMENTAL TEST PERFORMED." CONTRARY TO THE ABOVE, THE LICENSEE: (A) DID NOT ESTABLISH A VALID REASON FOR THE FAILURE OF THE FIRST SUPPLEMENTAL TEST PERFORMED FOLLOWING THE TYPE A TEST OF MARCH 1981 AND FAILED TO PERFORM A REASON FOR THE FAILURE OF THE FIRST SUPPLEMENTAL TEST PERFORMED FOLLOWING THE TYPE A TEST OF MARCH 1981 AND FAILED TO PERFORM A SUCCESSFUL SECOND SUPPLEMENTAL TEST OF SUFFICIENT DURATION, WITHOUT THE NEED TO ARBITRARILY POST SELECT THE DESIRED DATA SETS, IN ORDER TO ESTABLISH THE ACCURACY OF THE TYPE A TEST RESULTS; (B) IN DECEMBER 1983, FAILED TO OBTAIN SUPPLEMENTAL TESTS RESULTS WITHIN 0.25 LT, DETERMINE THE REASON FOR THIS FAILURE, TAKE CORRECTIVE ACTION, AND PERFORM A SATISFACTORY SUPPLEMENTAL TEST FOLLOWING THE TYPE A TEST.

(8411 4)

ZION TECHNICAL SPECIFICATION SECTION 6.2.A STATES THAT "DETAILED WRITTEN PROCEDURES INCLUDING APPLICABLE CHECKOFF LISTS COVERING ITEMS BELOW SHALL BE PREPARED, APPROVED AND ADHERED TO: ...6. PREVENTIVE AND CORRECTIVE MAINTENANCE OPERATIONS WHICH COULD HAVE

INSPECTION STATUS - (CONTINUED)

### ENFORCEMENT SUMMARY

AN EFFECT ON THE SAFETY OF THE FACILITY." A. CONTRARY TO THE ABOVE, ON MARCH 30, 1984, MAINTENANCE ON THE UNIT 2 SOURCE RANGE NEUTRON DETECTION CHANNEL N32 WAS PERFORMED WITHOUT A PROCEDURE. B. CONTRARY TO THE ABOVE, ON JUNE 18 AND 19, 1984, REPLACEMENT OF THE UNIT 2 N43 AND N44 POWER RANGE NEUTRON DETECTORS, WAS PERFORMED WITHOUT A PROCEDURE.

(8412 4)

TECHNICAL SPECIFICATION 6.2 STATES IN PART, "A. DETAILED WRITTEN PROCEDURES INCLUDING APPLICABLE CHECKOFF LISTS COVERING ITEMS LISTED BELOW SHALL BE PREPARED, APPROVED, AND ADHERED TO: ...5. INSTRUMENTATION OPERATION WHICH COULD HAVE AN EFFECT ON THE SAFETY OF THE FACILITY." ...AND, "PROCEDURES FOR ITEMS IDENTIFIED IN SPECIFICATION 6.2.1 AND ANY CHANGES TO SUCH PROCEDURES SHALL BE REVIEWED AND APPROVED BY...THE MAINTENANCE ASSISTANT SUPERINTENDENT AND TECHNICAL STAFF SUPERVISOR IN THE AREAS OF PLANT MAINTENANCE, INSTRUMENT MAINTENANCE AND PLANT INSPECTION...AND...MUST HAVE AUTHORIZATION BY THE STATION SUPERINTENDENT BEFORE BEING IMPLEMENTED." CONTRARY TO THE ABOVE, PROCEDURES IMSP-25, "INTERCHANGING NORMAL AND SPARE NARROW RANGE RTD," AND IMSP-8, "NARROW RANGE RTD REPLACEMENT SHEET," WERE IN USE WITH THE APPROVAL OF ONLY THE MASTER INSTRUMENT MECHANIC. (8412 5)

# OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NOHE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

UNIT IS SHUTDOWN FOR REPAIR OF 18 STEAM GENERATOR LEAKS

LAST IE SITE INSPECTION DATE: OCTOBER 10 - NOVEMBER 2, 1984

INSPECTION REPORT NO: 84-22

# REPORTS FROM LICENSEE

Report Period SEP 1984

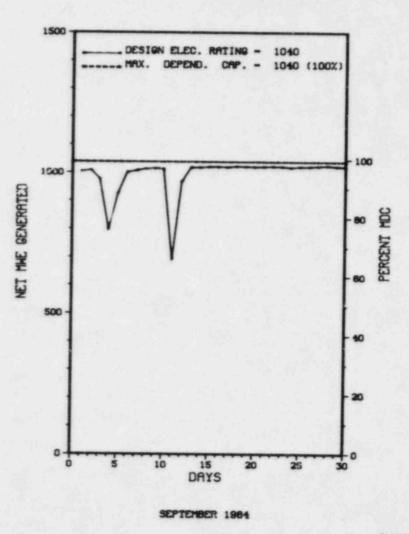
		and the second	
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
-20	05/14/84	08/15/84	LOSS OF PRESSURE IN GAS DECAY TANK 2B WHILE RELEASING GAS DECAY TANK 1C
-21	07/18/84	08/16/84	CONTAINMENT INTEGRATED LEAKRATE TEST FOUND UNACCEPTABLE PER 10CFR50 APPENDIX 1
-22	07/30/84	08/31/84	MISSED SURVEILLANCE OF RADIATION MONITOR 1RTPR09
4-23	08/15/84	09/13/84	FAILURE OF SAFETY RELATED SNUBBERS
4-24	08/21/84	09/13/84	FAILURE TO HAVE ECCS EQUIPMENT IN SERVICE AT 1000 PSIG
4-26	08/03/84	09/05/84	LOSS OF GAS WHILE WORKING ON LETDOWN RELIEF TO VCT (1VC8119) PER 10 CFR 50 APPENDIX I.

×.

Reporting Period: <u>09/01/</u> Utility Contact: <u>GERRI A</u> Licensed Thermal Power (M Nameplate Rating (Gross M	USTIN (312	) 746-2084	Hrs: 720.1							
Licensed Thermal Power (M										
	Wt):									
Nameplate Rating (Gross M			3250							
5. Nameplate Rating (Gross MWe): 1220										
Design Electrical Rating	(Net MWe):	10 <u>- 10</u>	1040							
Maximum Dependable Capaci	MWe):	1085								
Maximum Dependable Capaci	ty (Net MW	e):	1040							
I. If Changes Occur Above Since Last Report, Give Reasons: NONE										
ower Level To Which Rest	ricted, If	Any (Net M	We):							
IONE										
Report Period Hrs	MONTH 720.0									
lours Reactor Critical	720.0	4,076.2	63,301.2							
x Reserve Shtdwn Hrs			226.1							
Irs Generator On-Line	720.0		61,497.5							
Init Reserve Shtdwn Hrs		0	. 0							
ross Therm Ener (MWH)	2,279,121	12,110,593	177,026,676							
ross Elec Ener (MWH)	745,862	3,943,863	56,647,900							
let Elec Ener (MWH)	716,127	3,758,764	53,835,709							
Init Service Factor	100.0	60.4	69.9							
nit Avail Factor	100.0	60.4	69.9							
nit Cap Factor (MDC Net)	95.6	55.0	58.9							
nit Cap Factor (DER Net)	95.6	55.0	58.9							
nit Forced Outage Rate	0	15.6	17.5							
orced Outage Hours		734.7	13,111.4							
	6 Months (	Type,Date,D	uration):							
	taximum Dependable Capaci (f Changes Occur Above Si IONE Tower Level To Which Rest leasons for Restrictions, IONE Teport Period Hrs lours Reactor Critical X Reserve Shtdwn Hrs Irs Generator On-Line nit Reserve Shtdwn Hrs ross Therm Ener (MWH) ross Elec Ener (MWH) nit Service Factor nit Avail Factor nit Cap Factor (DER Net) nit Forced Outage Rate orced Outage Hours hutdowns Sched Over Next ONE	Maximum Dependable Capacity (Net MW         If Changes Occur Above Since Last R         IONE         Yower Level To Which Restricted, If         Yeasons for Restrictions, If Any:	IONE         Iower Level To Which Restricted, If Any (Net Milleasons for Restrictions, If Any:         IONE         IONE         Iours Reactor Critical         Iours Reactor Critical         720.0         Gours Reactor Critical         Gours Reactor On-Line         720.0         Gours Therm Ener (MWH)         745,862         Gours Elec Ener (MWH)         716,127         Gours Factor (MDC Net)         95.6         55.0							

******	*******	********	*********
×		DN 2	×
******	******	********	*********
AVERAGE	DAILY POL	NER LEVEL	(MWe) PLOT

ZION 2



Report Period SEP 1984	A CONCEANCE A	ZION 2 ***********************************
No. Date Type Hours Reason M	ethod LER Number System Component Cause & Corrective Action	to Prevent Recurrence

NONE

ZION 2 INCURRED NO OUTAGES OR POWER REDUCTIONS IN SEPTEMBER.

# \*\*\*\*\*\*\*\*\*\*\* \* SUMMARY \* \*\*\*\*\*\*\*\*

Ţ	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)		

PAGE 2-369

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**************************************	FACILITY DATA
FACILITY DESCRIPTION	UTILITY & CONTRACTOR INFORMATION
LOCATION STATEILLINOIS	UTILITY LICENSEECOMMONWEALTH EDISON
COUNTYLAKE	CORPORATE ADDRESS
DIST AND DIRECTION FROM NEAREST POPULATION CTR40 MI N OF CHICAGO, ILL	CHICAGO, ILLINOIS CONTRACTOR ARCHITECT/ENGINEER SARGENT & LUNDY

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

NUC STEAM SYS SUPPLIER ... WESTINGHOUSE

TURBINE SUPPLIER......NONE

REGULATORY INFORMATION

IE REGION RESPONSIBLE.....III

IE RESIDENT INSPECTOR.....J. WATERS

LICENSING PROJ MANAGER.....J. NORRIS DOCKET NUMBER ..... 50-304

LICENSE & DATE ISSUANCE.... DPR-48, NOVEMBER 14, 1973

PUBLIC DOCUMENT ROOM ...... ZION - BENTON PUBLIC LIBRARY 2400 GABRIEL AVENUE ZION, ILLINOIS 60099 INSPECTION STATUS

# INSPECTION SUMMARY

ELECTRIC RELIABILITY

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

INSPECTION ON JULY 23-27, (84-10): ROUTINE, ANNOUNCED INSPECTION OF THE FOLLOWING AREAS OF THE EMERGENCY PREPAREDNESS PROGRAM: LICENSEE ACTIONS ON PREVIOUSLY IDENTIFIED ITEMS; ACTIVATION OF THE EMERGENCY PLAN; EMERGENCY DETECTION AND CLASSIFICATION; PROTECTIVE ACTION DECISIONMAKING; NOTIFICATIONS AND COMMUNICATIONS; CHANGES TO THE EMERGENCY PREPAREDNESS PROGRAM; SHIFT STAFFING AND AUGMENTATION; KNOWLEDGE AND PERFORMANCE OF DUTIES (TRAINING); PUBLIC INFORMATION PROGRAM; MAINTAINING EMERGENCY PREPAREDNESS; AND LICENSEE AUDITS. THE INSPECTION INVOLVED 130 INSPECTOR-HOURS ONSITE BY TWO NRC INSPECTORS AND TWO CONSULTANTS. ONE ITEM OF NONCOMPLIANCE WAS IDENTIFIED IN ONE AREA (MAINTAINING EMERGENCY PREPAREDNESS). NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED IN THE OTHER AREAS INSPECTED.

INSPECTION ON JULY 2 AND AUGUST 1-29, (84-11): SPECIAL, ANNOUNCED INSPECTION BY REGION BASED INSPECTORS OF UNIT 1, 1981 AND 1983 CONTAINMENT INTEGRATED LEAK RATE TESTS (CILRT); WITNESS THE UNIT 1, 1984 CILRT; AND REVIEW UNIT 2, 1980 CILRT. THE INSPECTION INVOLVED 164 INSPECTORS-HOURS ON SITE BY THREE NRC INSPECTORS, INCLUDING 43 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS. OF THE THREE AREAS INSPECTED NO ITEMS OF NONCOMPLIANCE OR DEVIATION WERE IDENTIFIED IN TWO AREAS. TWO ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN THE REMAINING AREA (FAILURE TO PERFORM A TYPE A TEST IN ACCORDANCE WITH 10 CFR 50, APPENDIX J REQUIREMENTS -PARAGRAPH 2.A; FAILURE TO PERFORM SUPPLEMENTAL TESTS IN ACCORDANCE WITH 10 CFR 50, APPENDIX J REQUIREMENTS - PARAGRAPH 2.B).

INSPECTION ON JUNE 30 - JULY 27, (84-12): ROUTINE UNANNOUNCED RESIDENT INSPECTION OF LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS; UNIT 1 SHUTDOWN DUE TO CONTAINMENT LEAK RATE TEST DEFICIENCIES; 10 CFR 21 REPORT ON COMPONENT COOLING WATER SYSTEM; REACTOR TRIP FOLLOWING RTD CALIBRATION; REACTOR TRIP DURING INSTRUMENT CALIBRATION; CONDUCT OF MAINTENANCE ON NUCLEAR INSTRUMENTATION; INADVERTENT RELEASE OF CONTENTS OF 2B GAS DECAY TANK; PLANT STARTUP FROM REFUELING; OPERATIONAL SAFETY; ESF PAGE 2-370

# Report Period SEP 1984

ILLINOIS 60690

INTERPOOL NETWORK

INSPECTION STATUS - (CONTINUED)

#### INSPECTION SUMMARY

SYSTEM WALKDOWN; MAINTENANCE; SURVEILLANCE; AND LICENSEE EVENT REPORT FOLLOWUP. THIS INSPECTION INVOLVED A TOTAL OF 228 HOURS BY THREE NRC INSPECTORS INCLUDING 71 HOURS ONSITE DURING OFF-SHIFTS. OF THE 13 AREAS INSPECTED, NO ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN 9 AREAS; 6 ITEMS OF NONCOMPLIANCE WERE IDENTIFIED IN THE REMAINING 4 AREAS (FAILURE TO COMPLY WITH 10 CFR 50 APPENDIX B; FAILURE TO COMPLY WITH ZION TECHNICAL SPECIFICATIONS; FAILURE TO COMPLY WITH 10 CFR 50.73).

INSPECTION ON AUGUST 17, (84-14): ROUTINE, ANNOUNCED INSPECTION OF REACTOR COOLANT SYSTEM LEAK RATE TESTING. THE INSPECTION INVOLVED A TOTAL OF 14 INSPECTOR-HOURS ONSITE AND 0 INSPECTOR-HOURS ONSITE DURING OFF-SHIFTS BY TWO NRC INSPECTORS. NO ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

INSPECTION ON AUGUST 20-24, (84-16): ROUTINE UNANNOUNCED INSPECTION OF (1) CONFIRMATORY MEASUREMENTS PROGRAM INCLUDING SAMPLE SPLIT AND ONSITE ANALYSIS WITH THE REGION III MOBILE LABORATORY; REVIEW OF LICENSEE'S LABORATORY PRACTICES AND QUALITY CONTROL; AND INTERNAL AUDITS; (2) RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP) IMPLEMENTATION AND RESULTS; AND (3) REVIEW OF NONCOMPLIANCE AND OPEN ITEMS IDENTIFIED DURING PREVIOUS INSPECTIONS. THE INSPECTION INVOLVED &1 INSPECTOR-HOURS ON SITE BY 2 NRC INSPECTORS. NO APPARENT ITEMS OF NONCOMPLIANCE OR DEVIATIONS WERE IDENTIFIED.

#### ENFORCEMENT SUMMARY

10 CFR 50.54(Q) REQUIRES IN PART THAT A LICENSEE AUTHORIZED TO POSSESS AND/OR OPERATE A NUCLEAR POWER REACTOR SHALL FOLLOW AND MAINTAIN IN EFFECT EMERGENCY PLANS WHICH MEET THE STANDARDS IN 10 CFR 50.47(B) OF THIS PART AND THE REQUIREMENTS IN APPENDIX E TO THIS PART. 10 CFR 50.47(B)(14) STATES IN PART THAT PERIODIC EXERCISES ARE (WILL BE) CONDUCTED TO EVALUATE MAJOR PORTIONS OF EMERGENCY RESPONSE CAPABILITIES, PERIODIC DRILLS ARE (WILL BE) CONDUCTED TO DEVELOP AND MAINTAIN KEY SKILLS. SECTION 8.3.2.6 OF THE GENERIC PORTION OF THE GENERATING STATIONS' EMERGENCY PLAN (GSEP) STATES IN PART THAT AN ASSEMBLY AND ACCOUNTABILITY DRILL SHALL BE CONDUCTED ANNUALLY. CONTRARY TO THE ABOVE, THE LICENSEE HAS NOT CONDUCTED AN ANNUAL ASSEMBLY AND ACCOUNTABILITY DRILL SINCE JANUARY 1983. (8410 5)

10 CFR 50 APPENDIX B, CRITERION V STATES IN PART, "ACTIVITIES AFFECTING QUALITY SHALL BE PRESCRIBED BY DOCUMENTED INSTRUCTIONS, PROCEDURES, OR DRAWINGS, OF A TYPE APPROPRIATE TO THE CIRCUMSTANCES AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE INSTRUCTIONS, PROCEDURES, OR DRAWINGS." CONTRARY TO THE ABOVE, IMSP-25 "INTERCHANGING NORMAL AND SPARE NARROW RANGE RTD" WAS NOT APPROPRIATE IN THAT IT DID NOT TAKE INTO ACCOUNT SYSTEM CONFIGURATION AT THE TIME OF THE TESTING. 10 CFR 50 APPENDIX B CRITERION II STATES, IN PART, "ACTIVITIES AFFECTING QUALITY SHALL BE ACCOMPLISHED UNDER SUITABLY CONTROLLED CONDITIONS. CONTROLLED CONDITIONS INCLUDE...ASSURANCE THAT ALL PREREQUISITES FOR THE GIVEN ACTIVITY HAVE BEEN SATISFIED." PROCEDURE IMWR 530 ESTABLISHES PLANT CONDITIONS FOR TROUBLESHOOTING STEAM GENERATOR LOOP 3 FEEDWATER FLOW INSTRUMENTATION, AND REQUIRES THAT STATUS LIGHTS G3AST3, 63AST4, 63AST5, VI, V2, V3, AND V4 BE VERIFIED "NOT LIT" PRIOR TO TRIPPING THE 505 BISTABLES. CONTRARY TO THE ABOVE ON JULY 8, 1984 WHILE PERFORMING IMWR 530, THE UNIT 2 505 BISTABLES WERE TRIPPED EVEN THOUGH STATUS LIGHTS 63AST3, 63AST4, 63AST5, 63AST4, 63AST5, VI, V2, V3, AND V4 WERE OBSERVED AND DOCUMENTED TO BE LIT. ZION TECHNICAL SPECIFICATION SECTION 62.A STATES THAT "DETAILED WRITTEN PROCEDURES INCLUDING APPLICABLE CHECKOFF LISTS COVERING ITEMS BELOW SHALL BE PREPARED, APPROVED AND ADHERED TO: ...6. PREVENTIVE AND CORRECTIVE MAINTENANCE OPERATIONS WHICH COULD HAVE AN EFFECT ON THE SAFETY OF THE FACILITY." A. CONTRARY TO THE ABOVE, ON MARCH 30, 1984, MAINTENANCE ON THE UNIT 2 SOURCE RANGE NEUTRON DETECTION CHANNEL N32 WAS PERFORMED WITHOUT A PROCEDURE. B. CONTRARY 10 THE ABOVE, ON JUNE 18 AND 19, 1984, REPLACEMENT OF THE UNIT 2 N43 AND N44 POWER RANGE NEUTRON DETECTORS, WAS PERFORMED WITHOUT A PROCEDURE.

10 CFR 50.73(4) STATES, "(1) THE HOLDER OF AN OPERATING LICENSE FOR A NUCLEAR POWER PLANT (LICENSEE) SHALL SUBMIT A LICENSEE EVENT REPORT (LER) FOR ANY EVENT OF THE TYPE DESCRIBED IN THIS PARAGRAPH WITHIN 30 DAYS AFTER THE DISCOVERY OF THE EVENT...(2) THE LICENSEE SHALL REPORT...(I)(B) ANY OPERATION OR CONDITION PROHIBITED BY THE PLANT'S TECHNICAL SPECIFICATIONS..." CONTRARY TO THE ABOVE, THE LICENSEE FAILED TO SUBMIT A LER WITHIN 30 DAYS AFTER MAY 14, 1984, WHEN A PORTION OF THE CONTENTS OF THE 2B GAS DECAY TANK WERE RELEASED PRIOR TO COMPLETION OF THE REQUIRED 45 DAY MINIMUM HOLDUP PERIOD, IN VIOLATION OF ZION TECHNICAL SPECIFICATION 3.12.1.

#### ENFORCEMENT SUMMARY

# (8412 4)

TECHNICAL SPECIFICATION 6.2 STATES IN PART, "A. DETAILED WRITTEN PROCEDURES INCLUDING APPLICABLE CHECKOFF LISTS COVERING ITEMS LISTED BELOW SHALL BE PREPARED, APPROVED, AND ADHERED TO: ...5. INSTRUMENTATION OPERATION WHICH COULD HAVE AN EFFECT ON THE SAFETY OF THE FACILITY." ...AND, "PROCEDURES FOR ITEMS IDENTIFIED IN SPECIFICATION 6.2.1 AND ANY CHANGES TO SUCH PROCEDURES SHALL BE REVIEWED AND APPROVED BY...THE MAINTENANCE ASSISTANT SUPERINTENDENT AND TECHNICAL STAFF SUPERVISOR IN THE AREAS OF PLANT MAINTENANCE, INSTRUMENT MAINTENANCE AND PLANT INSPECTION...AND...MUST HAVE AUTHORIZATION BY THE STATION SUPERINTENDENT BEFORE BEING IMPLEMENTED." CONTRARY TO THE ABOVE, PROCEDURES IMSP-25, "INTERCHANGING NORMAL AND SPARE NARROW RANGE RTD," AND IMSP-8. "NARROW RANGE RTD REPLACEMENT SHEET," WERE IN USE WITH THE APPROVAL OF ONLY THE MASTER INSTRUMENT MECHANIC. ZION TECHNICAL SPECIFICATION SECTION 6.2.A STATES THAT "DETAILED WRITTEN PROCEDURES INCLUDING APPLICABLE CHECKOFF LISTS COVERING ITEMS BELOW SHALL BE PREPARED, APPROVED AND ADHERED TO: ...6. PREVENTIVE AND CORRECTIVE MAINTENANCE OPERATIONS WHICH COULD HAVE AN EFFECT ON THE SAFETY OF THE FACILITY." ZION INSTRUMENT DEPARTMENT ADMINISTRATIVE PROCEDURES 5-51-12, "INSTRUCTIONS AND CHECKLISTS," SECTION 5.2 REQUIRES THAT WORK REQUESTS BE "AUTHORIZED BY THE SHIFT SUPERVISOR PRIOR TO THE START OF THE JOB CONTINUES." CONTRARY TO THE ABOVE, NUCLEAR WORK REQUEST NO. Z32443, REPLACEMENT OF POWER RANGE NEUTRON DETECTORS 2N43 AND 2N44, WAS NOT REAUTHORIZED PRIOR TO CONTINUATION OF THE JOB ON JUNE 19, 1984. INITIAL AUTHORIZED EACH DAY THEREAFTER THAT THE JOB WAS OBTAINED ON JUNE 18, 1984.

OTHER ITEMS

SYSTEMS AND COMPONENT PROBLEMS:

NONE

FACILITY ITEMS (PLANS AND PROCEDURES):

NONE

MANAGERIAL ITEMS:

NONE

PLANT STATUS:

THE UNIT IS OPERATING NORMALLY.

LAST IE SITE INSPECTION DATE: OCTOBER 10 - NOVEMBER 2, 1984

INSPECTION REPORT NO: 84-23

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# REPORTS FROM LICENSEE

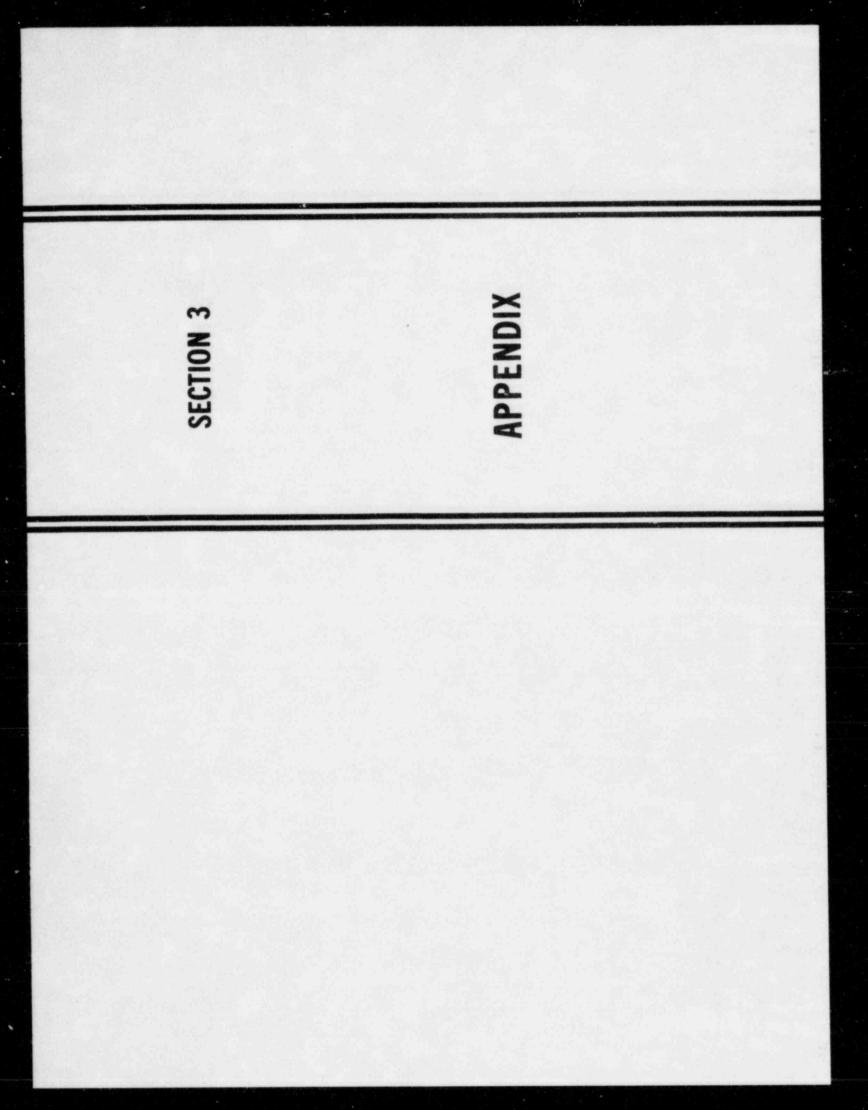
NUMBER	DATE OF EVENT	DATE OF REPORT	SUBJECT
34-18	07/08/84	08/07/84	REACTOR TRIP
34-19	07/01/84	08/15/84	PRESSURIZER PRESSURE CHANNEL FAILURES
4-21	06/19/84	09/04/84	LOSS OF SOURCE RANGE DETECTOR INDICATION WHILE IN CSD
4-22	08/09/84	08/31/84	ERROR IN SCHEDULING PT-1 SURVEILLANCE
4-23	08/16/84	09/13/84	FAILURE TO PERFORM REACTOR COOLANT SURVEILLANCE
34-24	08/21/84	09/20/84	FAILURE OF SAFEGUARDS TRAIN B TO RESET FROM TEST
84-25	09/05/84	09/26/84	LOAD SWING IN VIOLATION OF CONFIRMATORY ORDER

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14 14

PAGE 2-374

(R. L.



******							
* PRESSURIZED* S T	ATUS (	DF SPE	NT FU	EL STORAG	E CAPABIL	ITY	
* WATER *							
* REACTORS * (a)					REMAINING CAPACITY		
************* CORE S	IZE PRESI	ENT AUTH.	NO. OF		IF PENDING REQUEST		(b)
(NO.	OF STORAGE	E POOL CAP.	ASSEMBLIES	REMAINING CAPACITY	APPROVED	NEXT REFUEL	WILL FILL PRESENT
FACILITY ASSEMBL	IES) (FUEL /	ASSEMBLIES)	STORED (	NO. OF ASSEMBLIES)	(NO. OF ASSEMBLIES)	SCHED. DATE	AUTH. CAPACITY
******		********	******	******	************		
ARKANSAS	177	988	316	672		10-84	1998
ARKANSAS 2	177	988	168	820		05-85	2003
BEAVER VALLEY 1	157	833	52	781		10-84	1995
	217	1830(c)	868(c)	961(c)(m)	1098	03-85	1991
CALVERT CLIFFS 2	217					10-85	1991
COOK 1	193	2050(c)	553(c)	1497(c)		N/S	1994
COOK 2	193					N/S	
CRYSTAL RIVER 3	177	1163	171	992		N/S	1997
DAVIS-BESSE 1	177	735	199	536		H/S	1993
DIABLO CANYON 1	the second			1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
FARLEY 1	157	675	114	561	1293	N/S	1991
FARLEY 2	157	675	62	613	1345	01-85	1994
FORT CALHOUN 1	133	729	305	424		10-85	1996
GINNA	121	595	340	255		N/S	1992
HADDAM NECK	157	1168	545	623		N/S	1994
	0	288	160	128		N/S	1004
INDIAN POINT 2	193	482	332	150	916	N/S	1986
INDIAN POINT 3	193	837	140	697		N/S	1993
KEWAUNEE	121	990	268	722(m)	44.70	N/S	1991
MAINE YANKEE	217	953	577	376	1678	N/S	1987
MCGUIRE 1	193	500	91	409(n)	1781	N/S	1990
MCGUIRE 2	217	667	376	291		01-85 N/S	1987
MILLSTONE 2 NORTH ANNA 1	217	966(c)	220(c)	746		N/S	1991
NORTH ANNA 2	157	900(C)	220(0)	/40		N/S	1990
OCONEE 1	177	1312(1)	1086	226(1)(n)		10-84	1991
OCONEE 2	177	1312(1)	1000	220(1)(1)		03-85	1771
OCONEE 3	177	825	104	721		09-85	
PALISADES	204	784	480	304		N/S	1988
POINT BEACH 1	121	1058(c)	524(c)	1038(c)		N/S	1995
POINT BEACH 2	121	1050107	364163			N/S	1775
PRAIRIE ISLAND 1	121	1017(c)	601(c)	416(c)(m)	720	N/S	1988
PRAIRIE ISLAND 2	121					N/S	
RANCHO SECO 1	177	579	280	299		01-85	1987
ROBINSON 2	157	276	152	124(e)	431	N/S	1985(g)
SALEM 1	193	1170	212	958		N/S	1996
SALEM 2	193	1170	72	1098		N/S	2000
SAN ONOFRE 1	157	216	94	122		N/S	1985
SAN ONOFRE 2	217	800	0	800		11-84	
SAN ONOFRE 3	217	800	0	800		N/S	
SEQUOYAH 1	193	800	65	735		N/S	1993
SEQUOYAH 2(d)	193	800	130	670		N/S	1994
ST LUCIE 1	217	728	352	376		N/S	1990
ST LUCIE 2	The second second	1. Contract (1997)				10-84	
SUMMER 1	157	682	52	630	1276	N/S	
SURRY 1	157	1044(c)	608(c)	432(c)		N/S	1987
SURRY 2	157					N/S	

**************************************	IS OF SP	ENT F	UEL STORA	GE CAPABIL	ITY	
* WATER * * REACTORS * (a) ************************************	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 ************
THREE MILE ISLAND 1177THREE MILE ISLAND 2177TROJAN193TURKEY POINT 3157TURKEY POINT 4157YANKEE-ROWE 176ZION 1193ZION 2193	752 442 651 621 621 391 2112(c)	208 0 312 445 430 250 863(c)	544 442 339 175(m) 191 141 1249(c)	471	N/S N/S N/S N/S N/S 12-84 09-85	1986 1986 1990 1987 1988 1988 1988 1995 1995

MORRIS OPERATIONS         750 MTU(j)         315         385 MTU(j)           NFS(i)         250 MTU         170 MTU         80 MTU	) 1490 MTU(j)	
---	---------------	--

(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.

(1) This is the station total.

(m) Installed capacity is less than that authorized.

(n) McGuire 1 authorized to accept Oconee fuel assemblies.

Report Period SEP 1984

N/S = Not Scheduled \_\_\_\_

	**************** * BOILING * * WATER *		STAT	i u	IS OF SP	ENT	F	UEL	s	TOR	A G	E CAPABIL	ΙΤΥ	
	* REACTORS *	• (	(a) CORE SIZE (NO. OF		PRESENT AUTH. STORAGE POOL CAP.		BLIES			CAPACI		REMAINING CAPACITY IF PENDING REQUEST APPROVED		(b) WILL FILL PRESENT
			SSEMBLIES		(FUEL ASSEMBLIES)	STO	RED	(NO. (	OF AS	SEMBLIE	\$) *	(NC. OF ASSEMBLIES)	SCHED. DATE	AUTH. CAPACITY
	BIG ROCK POINT				193	172				21		269	N/S	1986
	BROWNS FERRY 1	1	764		3471	1068				2403			03-85	1985
	BROWNS FERRY 2	2	764		3471	889				1170(m)		2582	N/S	1985
	BROWNS FERRY 3	5	764	÷.,	3471	1768				150(m)		1703	N/S	1985
*	BRUNSWICK 1		560	6	(f)	1601	PWR+6	56BWR		2116			N/S	1986
	BRUNSWICK 2		560	i		144	PWR+5	64BWR		2208			N/S	1986
	COOPER STATION	۱.	548		2366	985				1381			N/S	1996
	DRESDEN 1		464		672	221				451			N/S	1990
	DRESDEN 2		724		2659(c)	2014	(c)			996(c)		6129(c)	10-84	1985
	DRESDEN 3		724										N/S	
	DUANE ARHOLD		368		2050	576				1474			N/5	1998
	FITZPATRICK		560		2244	816				1428			N/S	1991
	HATCH 1		560		3021	0				3021			10-84	1999
	HATCH 2		560		2750	1284				1466			N/S	1999
	HUMBOLDT BAY		172		487	251				236			N/S	.,,,
	LA CROSSE LASALLE 1 LASALLE 2		72		440	207				233			11-84	1990
	MILLSTONE 1		580		2184	1281				903			N/S	1991
			484							1100				
	MONTICELLO				2237 1984	1137						1700	N/S	1991
	NINE MILE POIN					1177				807		1788	N/S	1990
	OYSTER CREEK 1		560		1800	1375				425		1225	N/S	1987
	PEACH BOTTOM 2		764		2816	1361				1455			N/S	1990
	PEACH BOTTOM 3	)	764		2816	1212			1.14	1604			N/S	1991

*********									1.00			1				1.0	1.1		1	1.1	÷.,								* *						
* BOILING *	5	T	A T	U	S	OF		SP	EN	4 T		F	UE	ΕL		S	T	OF	8 A	G	E	1.00	CA	٢	A	в .	i i	1	TI	f					
* WATER *	6																				-														
* REACTORS *		(a)																				MAI													
********			IZE		PRES	ENT	AUTH	Η.		NO	. 01	F									IF	PE	NDI	NG	RE	QUI	EST			1000			(b		
	the second second second	ō.	OF		STORAC	E PO	DOL (	CAP.	AS	SEL	MBLI	ES	RE	EMA	INI	NG	CA	PAC	CIT	Y			APP							REF			FILL		
FACILITY	ASSE	Contract of	12 Jan 19	- Carlor 1997	FUEL					STI	OREI	)	(NO	D.	OF	ASS	SEM	BLI	IES	) (	(NO	. 0	FA	SSI	EMB	LI	ES)	SC	HEI	D. D	ATE	AU	TH. C	APAC	ITY
	****			-			***		**	**	***	***	*)	***	***	***	***	***	***		**	***	***	**	***	**	κ×	**	(**)	****	***	****	****	****	****
PILGRIM 1			580			23	20			170	8						6	2(1	n )											N/S			1990		
QUAD CITIES 1			724			36				173						1.1	192	7											1	N/S			2003	in the second	
QUAD CITIES 2			724			38				41							348												1	N/S			2003		
SUSQUEHANNA 1			764			28					n						284												1	N/S			1997		
			104			20	10				•							-																	
SUSQUEHANNA 2			368			201	0.0			117	6						82	6											1	N/S			1992	1.1.1	
WERMONT YANKEE		×	200			201											02																		

INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS(h)

MORRIS OPERATIONS	750 MTU(i) 315	385 MTU(j)	1490 MTU(j)
NES(i)	250 MTU 170 MTU	80 MTU	

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Report Period SEP 1984

N/S = Not Scheduled

# REACTOR YEARS OF EXPERIENCE

(INCLUDES BOTH LICENSED AND NON-LICENSED UNITS)

	YEARS	1ST ELEC GENERATE	SHUTDOWN DATE UNIT			1ST ELEC SHU YEARS GENERATE D	TDOWN ATE UNI	T		
									SAN ONOFRE 2 SEQUOYAH 2 SUMMER 1 SUSQUEHANNA 1 TROJAN VERMONT YANKEE ZION 1	1
* LICENSED * * OPERATING * * ELECTRICAL * * PRODUCING * * UNITS * *****	10.17 21.82 8.05 9.74 6.53 7.09 10.37 9.66 14.83 6.03 10.48 13.58 13.58 4.10 10.08 10.62 13.90	08/01/74 12/08/62 09/12/76 01/03/75 03/22/78 08/28/77 05/19/74 02/01/75 12/02/69 09/22/78 04/08/74 04/20/84 05/23/83 03/05/71 08/25/80 09/01/74 02/18/74 11/06/70	UNIT ARKANSAS 1 BIG ROCK POINT 1 BROWNS FERRY 3 CALVERT CLIFFS 1 COOK 2 DAVIS-BESSE 1 DUANE ARNOLD FITZPATRICK GINNA HATCH 2 KEWAUNEE LASALLE 2 MCGUIRE 2 MCMTICELLO NORTH ANNA 2 OCONEE 3 PEACH BOTTOM 2 POINT BEACH 1 PRAIRIE ISLAND 2 RANCHO SECO 1 SALEM 2 SAN ONOFRE 3 ST LUCIE 1 SURRY 1 SUSQUEHANNA 2 TURKEY POINT 3 WASHINGTON NUCLEAR 2 ZION 2	5.77 10.96 7.82 10.40 14.47 7.12 11.10 17.15 11.27 16.43 11.90 13.84 14.89 11.41 15.02 10.08 12.467	12/26/78 10/15/73 12/04/76 12/07/76 05/10/74 08/18/77 08/25/73 08/07/67 06/26/73 04/26/68 11/08/72 11/29/70 11/09/69 05/06/73 09/23/69 09/01/74 08/02/72 04/12/72	ARKANSAS 2 BROWNS FERRY 1 BRUNSWICK 1 CALVERT CLIFFS 2 COOPER STATION DRESDEN 2 FARLEY 1 FORT CALHOUN 1 HADDAM NECK INDIAN POINT 2 LA CROSSE MAINE YANKEE MILLSTONE 1 NINE MILE POINT 1 OCONEE 1 OYSTER CREEK 1 PEACH BOTTOM 3 POINT BEACH 2 QUAD CITIES 1	8.30 10.09 9.64 7.67 13.20 3.35 7.81 9.89 8.43 2.08 3.26 8.90 6.46 10.82 12.75 12.20 10.83 12.36	06/14/76 08/28/74 04/29/75 02/10/75 01/30/77 07/22/71 05/25/81 12/11/76 11/11/74 04/27/76 09/04/82 06/30/81 11/09/75 04/17/78 12/05/73 12/01/73 05/23/72	BROWNS FERRY 2 BRUNSWICK 2 COOK 1 CRYSTAL RIVER 3 DRESDEN 3 FARLEY 2 FORT ST VRAIN HATCH 1 INDIAN POINT 3 LASALLE 1 MILLSTONE 2 NORTH ANNA 1 OCONEE 2 PALISADES PILGRIM 1 PRAIRIE ISLAND QUAD CITIES 2	1
	YEARS	1ST ELEC GENERATE	UNIT	YEARS	1ST ELEC GENERATE	UNIT	YEARS	1ST ELEC GENERATE	UNIT	

YEAR	S GENERATE DATE	UNIT	YEARS GENERATE		
**************************************	0 08/14/64 06/01/68 4 04/15/60 10/31/78 2 08/05/66 11/29/72 1 04/18/63 07/02/76 9 07/25/66 10/01/67	8 BONUS 8 DRESDEN 1 2 FERMI 1 5 HUMBOLDT BAY 7 PATHFINDER	3.04 12/18/63 4.44 08/24/63 1.26 05/29/63 12.12 09/16/62 7.76 01/27/67	01/01/67 02/01/68 09/01/64 10/31/74 11/01/74	CVTR ELK RIVER

TOTAL 74.77 YRS

The total reactor years of experience is as the sum of all calendar days for each unit, from the date that electricity was first generated until a final shutdown date or the status date, whichever comes first, divided by 365.25 days/year. If a date is unknown, the first day of the first month of operation is substituted. Units which have not yet generated electricity but which are licensed are listed but not included in the computation.

Report Period SEP 1984

# NON-POWER REACTORS IN THE U.S.

\*\*\*\*\*\*\*\*\*\*\*\* \* RESEARCH \* \* REACTORS \* \*\*\*\*\*\*\*\*\*

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* REACIONS *		LICENSEE	REACTOR TYPE	DOCKET		DATE OL ISSUED	AUTHORIZED POWER LEVEL (KW)
STATE	CITY		ALAVIOR THE	MARINEL			
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 CANOGA PARK HAWTHORNE IRVINE LOS ANGELES SAN DIEGO SAN JOSE SAN JOSE SAN LUIS OBISPO SAN RAMON SANTA BARBARA	UNIVERSITY OF CALIFORNIA, BERKELEY COLLEGE ROCKWELL INTERNATIONAL CORP. NORTHROP CORP. LABORATORIES UNIVERSITY OF CALIFORNIA, IRVINE UNIVERSITY OF CALIFORNIA, L.A. GENERAL ATOMIC COMPANY GENERAL ATOMIC COMPANY GENERAL ATOMIC COMPANY CALIFORNIA STATE POLYTECHNIC COLLEGE AEROTEST OPERATIONS, INC. UNIVERSITY OF CALIFORNIA, SANTA BARBARA	TRIGA MK. III L-85 TRIGA MARK F TRIGA MARK I ARGONAUT TRIGA MARK F TRIGA MARK F TRIGA MARK I NTR AGN-201 \$100 TRIGA (INDUS) L-77	50-375 50-187 50-326 50-142 50-163 50-089 50-073 50-394	R-188 R-90 R-116 R-71 R-67 R-38 R-33 R-121 R-98	$\begin{array}{c} 08-10-66\\ 01-05-72\\ 03-04-63\\ 11-24-69\\ 10-03-60\\ 07-01-60\\ 05-03-58\\ 10-31-57\\ 05-16-73\\ 07-02-65\\ 12-03-74\\ \end{array}$	0.003 1000.0 250.0 100.0 1500.0 250.0 100.0 0.0001 250.0
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	GAINES ILLE	UNIVERSITY OF FLORIDA	ARGONAUT	50-083	R-56	05-21-59	100.0
GEORGIA	ATLANTA	GEORGIA INSTITUTE OF TECHNOLOGY GEORGIA INSTITUTE OF TECHNOLOGY	AGN-201 \$104 HEAVY WATER	50-276 50-160		04-19-68 12-29-64	
IDAHO	POCATELLO	IDAHO STATE UNIVERSITY	AGN-201 #103	50-284	R-110	10-11-67	9.0001
ILLINOIS	URBANA URBANA ZION	UNIVERSITY OF ILLINOIS UNIVERSITY OF ILLINOIS WESTINGHOUSE ELECTRIC CORP.	LOPRA TRIGA NTR	50-356 50-151 50-087	R-115	12-27-71 07-22-69 01-28-72	1500.0
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 KANSAS STATE UNIVERSITY	LOCKHEED TRIGA	50-148 50-188		06-23-61 10-16-62	
MARYLAND	BETHESDA COLLEGE PARK	ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE UNIVERSITY OF MARYLAND	TRIGA TRIGA	50-170 50-166		06-26-62	

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# NON-POWER REACTORS IN THE U.S.

\* RESEARCH \* \* REACTORS \*

STATE	CITY	LICENSEE	REACTOR TYPE	DOCKET	LICENSE NUMBER		AUTHORIZED POWER LEVEL (KW)
MASSACHUSETTS	CAMBRIDGE LOWELL WORCESTER	MASSACHUSETTS INSTITUTE OF TECHNOLOGY UNIVERSITY OF LOWELL WORCESTER POLYTECHNIC INSTITUTE	HWR REFLECTED GE GE	50-020 50-223 50-134	R-125	06-09-58 12-24-74 12-16-59	1000.0
MICHIGAN	ANN ARBOR EAST LANSING MIDLAND	UNIVERSITY OF MICHIGAN Michigan State University Dow Chemical Company	POOL TRIGA MARK I TRIGA	50-002 50-294 50-264	R-114	09-13-57 03-21-69 07-03-67	250.0
MISSOURI	COLUMBIA	UNIVERSITY OF MISSOURI, COLUMBIA UNIVERSITY OF MISSOURI	TANK	50-186 50-123		10-11-66 11-21-61	
NEBRASKA	OMAHA	THE VETERANS ADMINISTRATION HOSPITAL	TRIGA	50-131	R-57	06-26-59	18.0
NEW MEXICO	ALBUQUERQUE	UNIVERSITY OF NEW MEXICO	AGN-201M #112	50-252	R-102	09-17-66	0.005
NEW YORK	BRONX BUFFALO ITHACA ITHACA NEW YORK TUXEDO	MANHATTAN COLLEGE - PYHSICS DEPT. STATE UNIVERSITY OF NEW YORK CORNELL UNIVERSITY CORNELL UNIVERSITY COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK UNION CARBIDE CORP	TANK PULSTAR TRIGA MARK II ZPR TRIGA MARK II POOL	50-097	R-77 R-80 R-89 R-128	03-24-64 03-24-61 01-11-62 12-11-62 04-14-77 09-07-61	2000.0 500.0 0.1 250.0
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	0.100
OREGON	CORVALLIS	OREGON STATE UNIVERSITY REED COLLEGE	TRIGA MARK II TRIGA MARK I			03-07-67 07-02-58	
PENNSYLVANIA	UNIVERSITY PARK	PENNSYLVANIA STATE UNIVERSITY	TRIGA MK. III	50-005	R-2	07-08-55	1000.0
RHODE ISLAND	NARRAGANSETT	RHODE ISLAND NUCLEAR SCIENCE CENTER	GE POOL	50-193	R-95	07-21-64	2000.0
TENNESSEE	MEMPHIS	MEMPHIS STATE UNIVERSITY	AGN-201 \$108	50-538	R-127	12-10-76	0.0001
TEXAS	AUSTIN College Station College Station	UNIVERSITY OF TEXAS TEXAS ALM UNIVERSITY TEXAS ALM UNIVERSITY	TRIGA MARK I AGN-201M \$106 TRIGA	50-192 50-059 50-128	R-23	08-02-63 08-26-57 12-07-61	0.005
UTAH	PROVO	BRIGHAM YOUNG UNIVERSITY	L-77	50-262	R-109	09-07-67	0.01

# \*\*\*\*\* \* RESEARCH \* \* REACTORS \*

# 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 SALT LAKE CITY	THE UNIVERSITY OF UTAH UNIVERSITY OF UTAH	TRIGA MARK I AGN-201M #107	50-407 50-072		09-30-75 09-12-57	100.0 0.005
VIRGINIA	BLACKSBURG CHARLOTTESVILLE CHARLOTTESVILLE LYNCHBURG	VIRGINIA POLYTECHNIC INSTITUTE UNIVERSITY OF VIRGINIA UNIVERSITY OF VIRGINIA BABCOCK & WILCOX COMPANY	UTR-10 CAVALIER POOL LPR	50-124 50-396 50-062 50-099	R-62 R-123 R-66 R-47	12-18-59 09-24-74 06-27-60 09-05-58	100.0 0.1 2000.0 1000.0
WASHINGTON	PULLMAN	WASHINGTON STATE UNIVERSITY UNIVERSITY OF WASHINGTON	TRIGA ARGONAUT	50-027 50-139	R-76 R-73	03-06-61 03-31-61	1000.0
WISCONSIN	MADISON	UNIVERSITY OF WISCONSIN	TRIGA	50-156	R-74	11-23-60	1000.0
	D TEST REACTORS *						
CALIFORNIA	SAN JOSE	GENERAL ELECTRIC COMPANY	GETR	50-070	TR-1	01-07-59	50,000.0
DIST OF COLUMBIA	WASHINGTON	NATIONAL BUREAU OF STANDARDS	TEST	50-184	TR-5	06-30-70	10,000.0
	MENT FACILITIES *						
NEW YORK	TROY	RENSSELAER POLYTECHNIC INSTITUTE		50-225	CX-22	07-03-64	0.0
VIRGINIA	LYNCHBURG	BABCOCK & WILCOX COMPANY		50-013	CX-10	10-22-56	0.0
WASHINGTON	RICHLAND	BATTELLE MEMORIAL INSTITUTE		50-360	CX-26	11-29-71	0.0

\* U.S COVERNMENT PRINTING OFFICE: 1984-461-722:344

BIBLIOGRAPHIC DATA SHEET	NUREG-0020 2 Leave Diank	Volume Number 10
Licensed Operating Reactors Status Summary Report	5 DATE REPORT COM	APLEED VEAR ER 1984
S AUTHORISI	) DATE REPORT 185 MONTH NOVEMB 9. PROJECT/TASK/WC	ER 1984
Division of Budget and Analysis Office of Resource Management U. S. Nuclear Regulatory Commission Washington, CC 20555	10 SIN NUMBER	
Division of Budget and Analysis Office of Resource Management U. S. Nuclear Regulatory Commission	126 TYPE OF REFOR	D Unclusive decest
Washington, DC 20555 supplementany notes Status Summary Report	SEPTEN	IBER 1984
The OPERATING UNITS STATUS REPORT - LICENSED OPE operation of nuclear units as timely and accurat collected by the Office of Resource Management of Office of Inspection and Enforcement, from NRC's The three sections of the report are: monthly operating units, and errata from previously rep information on each unit, provided by NRC's Reg utilities; and an appendix for miscellaneous in capability, reactor-years of experience and non- the report is helpful to all agencies and indiv awareness of the U.S. energy situation as a whole the report is helpful to all agencies and indivi- awareness of the U.S. energy situation as a whole the report is helpful to all agencies and indivi- awareness of the U.S. energy situation as a whole the term of the term of term of the term of the term of the term of term of term of term of the term of term	tely as possible. This from the Headquarters sta s Regional Offices, and highlights and statistics orted data; a compilation ional Offices, IE Headqua formation such as spent -power reactors in the U iduals interested in main	information is aff of NRC's from utilities. s for commercial n of detailed arters and the fuel storage .S. It is hoped
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