

Commonwealth Edison Company
Dresden Generating Station
6500 North Dresden Road
Morris, IL 60450
Tel. 815-942-2920



October 9, 1996

JSPLTR 96-0183

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Subject: Monthly Operating Data Report for September 1996
Dresden Nuclear Power Station
Commonwealth Edison Company
Docket Nos. 50-010, 50-237, and 50-249

Gentlemen:

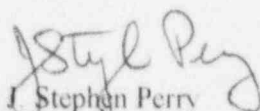
Enclosed is the Dresden Nuclear Power Station Monthly Operating Summary Report for September 1996.

Cumulative totals for Gross and Net electrical generation are being compared to the official ComEd Production Data Bank records. Should discrepancies be found in these figures, they will be corrected in the October monthly report.

Cumulative totals for megawatt thermal hours (MWT hr) have been adjusted to agree with official Company records as of 1 January 1996. The adjustments were less than one percent for each unit.

This information is supplied to your office as required by Technical Specification 6.6.A.3, in accordance with the instructions set forth in Regulatory Guide 1.16.

Sincerely,


Stephen Perry
Site Vice President
Dresden Station

JSP/GA:pt

Enclosure

9610170282 960930
PDR ADOCK 05000010
R PDR

cc: NRC Region III Office
Illinois Dept. of Nuclear Safety, State of Illinois
NRC Senior Resident Inspector
UDI, Inc. - Washington, DC
File/Numerical

160116

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1024

MONTHLY NRC
SUMMARY OF OPERATING EXPERIENCE,
PER REGULATORY GUIDE 1.16
FOR
DRESDEN NUCLEAR POWER STATION
COMMONWEALTH EDISON COMPANY
FOR September 1996

<u>UNIT</u>	<u>DOCKET</u>	<u>LICENSE</u>
1	050-010	DPR-2
2	050-237	DPR-19
3	050-249	DPR-25

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1.0 Introduction

Dresden Nuclear Power Station is a three reactor generating facility owned and operated by the ComEd Company of Chicago, Illinois. Dresden Station is located at the confluence of the Kankakee and Des Plaines Rivers, in Grundy County, near Morris, Illinois.

Dresden Unit 1 is a General Electric Boiling Water Reactor with a design net electrical output rating of 200 megawatts electrical (MWe). The unit is retired in place with all nuclear fuel removed from the reactor vessel. Therefore, no Unit 1 operating data is provided in this report.

Dresden Units 2 and 3 are General Electric Boiling Water Reactors, each licensed at 2527 megawatts thermal. The gross outputs of Units 2 and 3 are 832 and 834 megawatts electrical, respectively, with design net electrical output ratings of 794 MWe each.

Waste heat is rejected to a man-made cooling lake using the Kankakee River for make-up and the Illinois River for blowdown.

The Architect-Engineer for Dresden Units 2 and 3 was Sargent and Lundy of Chicago, Illinois.

This report for **September 1996**, was compiled by Gary A. Abrell of Dresden Regulatory Assurance Staff, telephone number (815) 942-2920, extension 3749.

2.0 SUMMARY OF OPERATING EXPERIENCE FOR September 1996

2.1 UNIT 2 MONTHLY OPERATING EXPERIENCE SUMMARY

Unit 2 was on system at the beginning of the period with power ascension and start-up testing in progress.

Power was reduced from 413 to 320 MWE at 1430 on 3 September because of recirculation pump flow oscillations. Beginning at 1430 on 6 September, load was increased to 504 MWE following adjustments to the speed control circuit. Feedwater control testing began at 0700 on 7 September. At 0035 on 14 September, load was dropped from 670 MWE to 510 MWE for control rod drive exercising. A load increase to 800 MWE began at 0615 on 17 September. The Unit held 800 MWE from 0015 on 20 September until a load drop to 590 MWE at 0600 on 30 September as a result of a run of gizzard shad which impinged on the traveling screens and threatened service water and circulating water supplies.

Unit is currently derated 2% because of feedwater flow element uncertainty. This derating may be reduced based on the results of startup testing.

2.0 SUMMARY OF OPERATING EXPERIENCE FOR September 1996

2.2 UNIT 3 MONTHLY OPERATING EXPERIENCE SUMMARY

Unit 3 began the period in cold shutdown while modifications to the low pressure coolant injection system heat exchanger support steel and control rod drive gallery steel, originally planned for the refueling outage, were completed. Inspection of the reactor water clean-up heat exchangers in accordance with the ASME Code was completed satisfactorily.

Unit 3 was made critical at 0520 on 22 September and synchronized to the grid at 1250 on 23 September. Control Rod drive scram timing, minor maintenance, and testing were completed during power ascension. Unit was at 700 MWE at 0700 on 29 September. Beginning at 0600 on 30 September, load was dropped to 430 MWE because a run of gizzard shad impinged on the traveling screens and threatened the service water and circulating water supplies. At 1130 on 30 September, load was increased to 590 MWE.

3.0 OPERATING DATA STATISTICS

3.1 OPERATING DATA REPORT - DRESDEN UNIT TWO

DOCKET No. 050-237
 DATE October 3, 1996
 COMPLETED BY G. A. ABRELL
 TELEPHONE (815) 942-2920

OPERATING STATUS

1. REPORTING PERIOD: September 1996
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth): 2,527
 MAXIMUM DEPENDABLE CAPACITY (MWe NET): 772
 DESIGN ELECTRICAL RATING (MWe Net): 794
3. POWER LEVEL TO WHICH RESTRICTED (MWe Net): 2477 MWth
 (approximately 778.1 MWe Net)
4. REASONS FOR RESTRICTIONS (IF ANY): See Section 2.1 of this report.

REPORTING PERIOD DATA				
	PARAMETER	THIS MONTH	YEAR TO DATE	CUMULATIVE
5	HOURS IN PERIOD	720	6,575	230,543
6	TIME REACTOR CRITICAL	720	1,821	164,953
7	TIME REACTOR RESERVE SHUTDOWN (Hours)	0.0	0	0
8	TIME GENERATOR ON-LINE (Hours)	720.0	1,523	154,705
9	TIME GENERATOR RESERVE SHUTDOWN (Hours)	0.0	0	1
10	THERMAL ENERGY GENERATED (MWh Gross)	1,379,418	2,267,198	326,804,272
11	ELECTRICAL ENERGY GENERATED (MWh Gross)	436,415	690,579	104,585,188
12	ELECTRICAL ENERGY GENERATED (MWh Net)	416,805	616,552	98,805,134
13	REACTOR SERVICE FACTOR (%)	100.0%	27.7%	71.5%
14	REACTOR AVAILABILITY FACTOR (%)	100.0%	27.7%	71.5%
15	GENERATOR SERVICE FACTOR (%)	100.0%	23.1%	67.1%
16	GENERATOR AVAILABILITY FACTOR (%)	100.0%	23.1%	67.1%
17	CAPACITY FACTOR (Using MCD Net) (%)	75.0%	12.1%	55.5%
18	CAPACITY FACTOR (Using DER & C) (%)	72.9%	11.8%	54.0%
19	FORCED OUTAGE FACTOR (%)	0%	60.0%	11.8%

20. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS: NONE
21. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A

3.0 OPERATING DATA STATISTICS

3.2 OPERATING DATA REPORT - DRESDEN UNIT THREE

DOCKET No. 050-249
 DATE October 3, 1996
 COMPLETED BY G. A. ABRELL
 TELEPHONE (815) 942-2920

OPERATING STATUS

1. REPORTING PERIOD: September 1996
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth): 2,527
 MAXIMUM DEPENDABLE CAPACITY (MWe Net): 773
 DESIGN ELECTRICAL RATING (MWe Net): 794
3. POWER LEVEL TO WHICH RESTRICTED: No restriction
4. REASONS FOR RESTRICTIONS (IF ANY): See Section 2.2 of this report.

REPORTING PERIOD DATA				
	PARAMETER	THIS MONTH	YEAR TO DATE	CUMULATIVE
5	HOURS IN PERIOD	720	6,576	221,592
6	TIME REACTOR CRITICAL	210.7	3,730	155,229
7	TIME REACTOR RESERVE SHUTDOWN (Hours)	0.0	0	0
8	TIME GENERATOR ON-LINE (Hours)	180.0	3,645	147,082
9	TIME GENERATOR RESERVE SHUTDOWN (Hours)	0.0	0	0
10	THERMAL ENERGY GENERATED (MWh Gross)	321,084	2,366,563	308,970,500
11	ELECTRICAL ENERGY GENERATED (MWh Gross)	101,090	2,695,014	99,457,182
12	ELECTRICAL ENERGY GENERATED (MWh Net)	91,895	2,571,020	94,227,619
13	REACTOR SERVICE FACTOR (%)	25.0%	56.7%	70.1%
14	REACTOR AVAILABILITY FACTOR (%)	29.3%	56.7%	70.1%
15	GENERATOR SERVICE FACTOR (%)	25.0%	55.4%	66.4%
16	GENERATOR AVAILABILITY FACTOR (%)	25.0%	55.4%	66.4%
17	CAPACITY FACTOR (Using MCD Net) (%)	16.5%	50.7%	55.1%
18	CAPACITY FACTOR (Using DER Net) (%)	16.1%	49.2%	53.6%
19	FORCED OUTAGE FACTOR (%)	75.0%	44.6%	13.4%

20. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS: 1 March 1997.
21. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A

21. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF
STARTUP: N/A

3 AVERAGE DAILY UNIT 2 POWER LEVEL

DOCKET No. 050-237
UNIT Dresden 2
DATE October 3, 1996
COMPLETED BY G. A. ABRELL
TELEPHONE (815) 942-2920

MONTH: September-96
DRESDEN 2

DAY	AVERAGE DAILY NET POWER LEVEL (MWe)	DAY	AVERAGE DAILY NET POWER LEVEL (MWe)
1	119	18	690
2	181	19	740
3	355	20	764
4	297	21	766
5	281	22	764
6	292	23	730
7	476	24	759
8	559	25	760
9	600	26	765
10	595	27	765
11	636	28	765
12	635	29	744
13	637	30	618
14	491		
15	482		
16	486		
17	614		

(Note: negative values represent station loads)

3.4

AVERAGE DAILY UNIT 3 POWER LEVEL

DOCKET No. 050-249

UNIT Dresden 3

DATE October 3, 1996

COMPLETED BY G. A. ABRELL

TELEPHONE (815) 942-2920

MONTH: September-96

DRESDEN 3

DAY	AVERAGE DAILY NET POWER LEVEL (MWe)	DAY	AVERAGE DAILY NET POWER LEVEL (MWe)
1	-9	18	-9
2	-9	19	-9
3	-8	20	-9
4	-8	21	-9
5	-8	22	-9
6	-8	23	55
7	-9	24	241
8	-9	25	535
9	-9	26	687
10	-9	27	672
11	-9	28	665
12	-9	29	664
13	-9	30	499
14	-8		
15	-8		
16	-8		
17	-8		

(Note: Negative values represent station loads)

3.5 UNIT 2 SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OF September 1996

NO	DATE	TYPE (1)	DURATION (HOURS)*	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE	COMPO- NENT CODE (5)	CORREC- TIVE ACTIONS/ COM- MENTS
3	960914	S	0	B	5	N/A	N/A	N/A	2.1

Year-to-date forced outage hours = 2,281

Cumulative forced outage hours = 20,706.00

TABLE KEY:

(1)

F: Forced
S: Scheduled

(2)

Reason:

A Equipment Failure (Explain)
B Maintenance or Test
C Refueling
D Regulatory Restriction
E Operator Training &
Licensing Exam
F Administrative
G Operational Error
H Other (Explain)

(3)

Method:

1. Manual
2. Manual Scram
3. Automatic Scram
4. Other (Explain)
5. Load Reduction

(4)

Exhibit G Instruction for
Preparation of Data Entry
Sheets for Licensee Event
Reports (LER) File
(NUREG-0161)

(5)

Exhibit I Same Source as
Above.

3.6 UNIT 3 SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September 1996

NO	DATE	TYPE (1)	DURATION (HOURS)*	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CORRECTIVE ACTIONS/ COMMENTS
2	960621	F	539	A	1	N/A	EA	52	2.2
3	960930	F	0	H	5	N/A	N/A	N/A	2.2
	0								

Year-to-date forced outage hours = 2,929

Cumulative forced outage hours = 22,844

TABLE KEY:

(1)

F: Forced
S: Scheduled

(2)

Reason:

A Equipment Failure (Explain)
B Maintenance or Test
C Refueling
D Regulatory Restriction
E Operator Training & Licensing Exam
F Administrative
G Operational Error
H Other (Explain)

(3)

Method:

1. Manual
2. Manual Scram
3. Automatic Scram
4. Other (Explain)
5. Load Reduction

(4)

Exhibit G Instruction for Preparation of Data Entry Sheets for Licensee Event Reports (LER) File (NUREG-0161)

(5)

Exhibit I Same Source as Above.

4.0 UNIQUE REPORTING REQUIREMENTS

4.1 MAIN STEAM RELIEF AND/OR SAFETY VALVE OPERATIONS - UNIT 2 AND UNIT 3

None

4.2 OFF-SITE DOSE CALCULATION MANUAL (ODCM) CHANGES

None

4.3 MAJOR CHANGES TO THE RADIOACTIVE WASTE TREATMENT SYSTEMS

None

4.4 FAILED FUEL ELEMENT INDICATIONS

4.4.1 Unit 2

Unit 2 has no indications of fuel failures.

4.4.2 Unit 3

Unit 3 Previous operation indicated a single fuel rod failure.

5.0 TECHNICAL SPECIFICATION AMENDMENTS

5.1 Amendments to Facility License or Technical Specifications implemented during September 1996.

Amendments 150 for Unit 2 and 145 for Unit 3 were partially implemented. Specifically, the location of accident monitoring instrumentation was deleted from table 3.2.6, and the total maximum combined surveillance interval time for any three consecutive intervals of 3.25 times the specified surveillance interval was eliminated.