

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



November 8, 1996

JSPLTR 96-0214

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

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

Gentlemen:

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

As noted in the previous report for September 1996, cumulative totals for Gross and Net electrical generation, Hours in the period, Time Generator On-line, and Forced Outage Hours have been revised to agree with the official ComEd Production Data Bank records from the commercial service date to the present. Commercial Service dates are noted in section 1 of the enclosure.

No changes were made to any year-to-date totals.

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,

A handwritten signature in dark ink, appearing to read "L. Stephen Perry".

L. Stephen Perry  
Site Vice President  
Dresden Station

JSP/GA:pt

Enclosure

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

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MONTHLY NRC

SUMMARY OF OPERATING EXPERIENCE,

PER REGULATORY GUIDF 1.16

FOR

DRESDEN NUCLEAR POWER STATION

COMMONWEALTH EDISON COMPANY

FOR October 1996

<u>UNIT</u>	<u>DOCKET</u>	<u>LICENSE</u>
1	050-010	DPR-2
2	050-237	DPR-19
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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. The commercial service date for Unit 2 is 11 August 1970, and 30 October 1971 for Unit 3.

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 **October 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 October 1996

### 2.1 UNIT 2 MONTHLY OPERATING EXPERIENCE SUMMARY

Unit 2 was on system at the beginning of the period near full power.

At 1300 on 9 October 1996 load was dropped to 350 MWE to perform the 10% closure test on the 1A Main Steam Isolation Valve (MSIV). During a previous test, it had fully closed. The unit returned to full power at 1000 on 10 October 1996 following a satisfactory test.

At 0132 on 19 October 1996 load was reduced to 300 MWE to perform maintenance activity on the following equipment:

- 1A Main Steam Isolation Valve 10% closure
- 2A Reactor Feed Pump Vent Fan
- Circulating Water Flow reversing valve
- Off Gas System
- Recirc Motor Generator speed control
- Leaks into Dry Well Equipment Drain Sump

Power was returned to 788 MWE at 1800 on 22 October 1996.

At 1000 on 27 October 1996 a load reduction began to perform routine surveillance activities. Full power was resumed at 1800 on 27 October 1996.

The 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 October 1996

### 2.2 UNIT 3 MONTHLY OPERATING EXPERIENCE SUMMARY

Unit 3 began the period about 85% power in coast down. The unit is derated an estimated 30 MWE because three control blades are inserted surrounding the leaking fuel bundle.

AT 1800 on 26 October 1996, the 3B reactor recirculation pump tripped with indications of an electrical problem. At 0150 on 27 October 1996 operations commenced a load drop in preparation for a shutdown. At 0201 the plant was manually scrammed to complete the shutdown.

The 3B reactor recirculating pump motor was found to be grounded. Repairs are in progress.

### 3.0 OPERATING DATA STATISTICS

#### 3.1 OPERATING DATA REPORT - DRESDEN UNIT TWO

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

#### OPERATING STATUS

1. REPORTING PERIOD: October 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.

	PARAMETER	THIS MONTH	YEAR TO DATE	CUMULATIVE
5	HOURS IN PERIOD	745	7,320	229,872
6	TIME REACTOR CRITICAL	745	2,566	165,698
7	TIME REACTOR RESERVE SHUTDOWN (Hours)	0.0	0	0
8	TIME GENERATOR ON-LINE (Hours)	745.0	2,267	157,551
9	TIME GENERATOR RESERVE SHUTDOWN (Hours)	0.0	0	1
10	THERMAL ENERGY GENERATED (MWht Gross)	1,739,084	4,006,282	328,543,356
11	ELECTRICAL ENERGY GENERATED (MWEHe Gross)	555,201	1,245,780	104,873,784
12	ELECTRICAL ENERGY GENERATED (MWEHe Net)	530,653	1,147,205	99,116,914
13	REACTOR SERVICE FACTOR (%)	100.0%	35.1%	72.1%
14	REACTOR AVAILABILITY FACTOR (%)	100.0%	35.1%	72.1%
15	GENERATOR SERVICE FACTOR (%)	100.0%	31.0%	68.5%
16	GENERATOR AVAILABILITY FACTOR (%)	100.0%	31.0%	68.5%
17	CAPACITY FACTOR (Using MCD Net) (%)	92.3%	20.3%	55.9%
18	CAPACITY FACTOR (Using DER Net) (%)	89.7%	19.7%	54.3%
19	FORCED OUTAGE FACTOR (%)	0%	50.2%	12.7%

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 November 3, 1996  
 COMPLETED BY G. A. ABRELL  
 TELEPHONE (815) 942-2920

#### OPERATING STATUS

1. REPORTING PERIOD: October 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	745	7,320	219,192
6	TIME REACTOR CRITICAL	628	4,358	155,857
7	TIME REACTOR RESERVE SHUTDOWN (Hours)	0.0	0	0
8	TIME GENERATOR ON-LINE (Hours)	628.0	4,273	148,524
9	TIME GENERATOR RESERVE SHUTDOWN (Hours)	0.0	0	0
10	THERMAL ENERGY GENERATED (MWht Gross)	1,241,977	9,508,540	310,212,477
11	ELECTRICAL ENERGY GENERATED (MWEHe Gross)	401,324	3,096,338	99,273,141
12	ELECTRICAL ENERGY GENERATED (MWEHe Net)	382,216	2,953,236	94,094,213
13	REACTOR SERVICE FACTOR (%)	84.3%	59.5%	71.1%
14	REACTOR AVAILABILITY FACTOR (%)	84.3%	59.5%	71.1%
15	GENERATOR SERVICE FACTOR (%)	84.3%	58.4%	67.8%
16	GENERATOR AVAILABILITY FACTOR (%)	84.3%	58.4%	67.8%
17	CAPACITY FACTOR (Using MCD Net) (%)	66.5%	52.3%	55.6%
18	CAPACITY FACTOR (Using DER Net) (%)	64.6%	50.8%	54.1%
19	FORCED OUTAGE FACTOR (%)	15.7%	41.6%	13.7%

20. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS: 1 March 1997.
21. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: NO FIRM DATE AVAILABLE AT THIS TIME.



### 3.3 AVERAGE DAILY UNIT 2 POWER LEVEL

DOCKET No. 050-237

UNIT Dresden 2

DATE November 3, 1996

COMPLETED BY G. A. ABRELL

TELEPHONE (815) 942-2920

MONTH: October-96

DRESDEN 2

DAY	AVERAGE DAILY NET POWER LEVEL (MWe)	DAY	AVERAGE DAILY NET POWER LEVEL (MWe)
1	695	18	750
2	751	19	376
3	755	20	468
4	756	21	502
5	761	22	712
6	758	23	751
7	754	24	752
8	749	25	749
9	612	26	745
10	706	27	728
11	752	28	743
12	753	29	740
13	758	30	766
14	753	31	773
15	750		
16	746		
17	747		

(Note: negative values represent station loads)

## 3.4

## AVERAGE DAILY UNIT 3 POWER LEVEL

DOCKET No. 050-249

UNIT Dresden 3

DATE November 3, 1996

COMPLETED BY G. A. ABRELL

TELEPHONE (815) 942-2920

MONTH: October-96

DRESDEN 3

DAY	AVERAGE DAILY NET POWER LEVEL (MWe)	DAY	AVERAGE DAILY NET POWER LEVEL (MWe)
1	616	18	604
2	658	19	605
3	648	20	603
4	644	21	594
5	643	22	591
6	637	23	590
7	632	24	592
8	634	25	590
9	633	26	496
10	630	27	17
11	626	28	-8
12	625	29	-8
13	620	30	-8
14	614	31	-8
15	609		
16	605		
17	603		

(Note: Negative values represent station loads)

### 3.5 UNIT 2 SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OF October 1996

NO	DATE	TYPE (1)	DURATION (HOURS) *	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPO- NENT CODE (5)	CORREC- TIVE ACTIONS/ COM- MENTS
4	961005	S	0	B	5	N/A	N/A	N/A	2.1
5	961019	S	0	B	5	N/A	N/A	N/A	2.1
6	961027	S	0	B	5	N/A	N/A	N/A	2.1

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

Cumulative forced outage hours = 22,935

#### 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 October 1996

NO	DATE	TYPE(1)	DURATION (HOURS)*	REASON(2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CORREC- TIVE ACTIONS/ COMMENTS
4	961028	F	117	A	1	N/A	AD	MO	2.2

Year-to-date forced outage hours = 3,046

Cumulative forced outage hours = 23,612

#### 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 October 1996.

None