

# OPERATING DATA REPORT

DOCKET NO. 050-237

DATE Feb. 1, 1984

COMPLETED BY B. A. Schroeder

TELEPHONE (815) 942-2920

## OPERATING STATUS

### NOTES

1. Unit Name: Dresden II
2. Reporting Period: January, 1984
3. Licensed Thermal Power (MWt): 2,527
4. Nameplate Rating (Gross MWe): 828
5. Design Electrical Rating (Net MWe): 794
6. Maximum Dependable Capacity (Gross MWe): 812
7. Maximum Dependable Capacity (Net MWe): 772
8. If Changes Occur in Capacity Ratings (Items 3 Through 7) Since Last Report, Give Reasons:  
N/A

9. Power Level to Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>744</u>	<u>744</u>	<u>120,264</u>
12. Number of Hours Reactor Was Critical	<u>744</u>	<u>744</u>	<u>92,968.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>722.1</u>	<u>722.1</u>	<u>91,628.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,733,202</u>	<u>1,733,202</u>	<u>178,427,838</u>
17. Gross Electrical Energy Generated (MWH)	<u>567,636</u>	<u>567,636</u>	<u>57,069,835</u>
18. Net Electrical Energy Generated (MWH)	<u>542,098</u>	<u>542,098</u>	<u>53,930,364</u>
19. Unit Service Factor	<u>96.06</u>	<u>97.06</u>	<u>76.19</u>
20. Unit Availability Factor	<u>97.06</u>	<u>97.06</u>	<u>76.19</u>
21. Unit Capacity Factor (Using MDC Net)	<u>94.38</u>	<u>94.38</u>	<u>58.09</u>
22. Unit Capacity Factor (Using DER Net)	<u>91.77</u>	<u>91.77</u>	<u>56.48</u>
23. Unit Forced Outage Rate	<u>2.92</u>	<u>2.92</u>	<u>11.60</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Snubber inspection May 13, 1984 (plus or minus 45 days)</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

# OPERATING DATA REPORT

DOCKET NO. 050-249

DATE Feb. 1, 1984

COMPLETED BY B. A. Schroeder

TELEPHONE (815) 942-2920

## OPERATING STATUS

### NOTES

1. Unit Name: Dresden III
2. Reporting Period: January, 1984
3. Licensed Thermal Power (MWt): 2,527
4. Nameplate Rating (Gross MWe): 828
5. Design Electrical Rating (Net MWe): 794
6. Maximum Dependable Capacity (Gross MWe): 812
7. Maximum Dependable Capacity (Net MWe): 773
8. If Changes Occur in Capacity Ratings (Items 3 Through 7) Since Last Report, Give Reasons:

N/A

9. Power Level to Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>744</u>	<u>744</u>	<u>109,849</u>
12. Number of Hours Reactor Was Critical	<u>0</u>	<u>0</u>	<u>82,845</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>0</u>	<u>0</u>	<u>79,861.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>159,961,098</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>51,952,919</u>
18. Net Electrical Energy Generated (MWH)	<u>-2760</u>	<u>-2760</u>	<u>49,227,824</u>
19. Unit Service Factor	<u>0</u>	<u>0</u>	<u>72.7</u>
20. Unit Availability Factor	<u>0</u>	<u>0</u>	<u>72.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>0</u>	<u>57.97</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>0</u>	<u>56.44</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>12.66</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

N/A

25. If Shut Down At End Of Report Period, Estimated Date of Startup: Mid-March, 1984

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JANUARY, 1984

DOCKET NO. 050-237

UNIT NAME Dresden IIDATE February 1, 1984COMPLETED BY B. A. SchroederTELEPHONE (815) 942-2920

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
1	84-1-10	F	21.8	H	1	--	--	--	The "B" turbine EHC pressure regulator became faulty - repaired.

1

F: Forced  
S: Scheduled

2

Reason:  
A-Equipment Failure (Explain)  
B-Maintenance or Test  
C-Refueling  
D-Regulatory Restriction  
E-Operator Training & License Examination  
F-Administrative  
G-Operational Error  
H-Other (Explain)

3

Method:  
1-Manual  
2-Manual Scram  
3-Automatic Scram  
4-Other (Explain)

4

Exhibit G-Instructions for  
Preparation of Data  
Entry Sheets for Licensee  
Event Report ( ) File  
(NUREG-0161)

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JANUARY, 1984

DOCKET NO. 050-249

UNIT NAME Dresden IIIDATE February 1, 1984COMPLETED BY B. A. SchroederTELEPHONE (815) 942-2920

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
8	83-9-30	S	744	C	1	--	--	--	Refueling, ISI and Turbine overhaul outage.

1

F: Forced  
S: Scheduled

2

Reason:  
A-Equipment Failure (Explain)  
B-Maintenance or Test  
C-Refueling  
D-Regulatory Restriction  
E-Operator Training & License Examination  
F-Administrative  
G-Operational Error  
H-Other (Explain)

3

Method:  
1-Manual  
2-Manual Scram  
3-Automatic Scram  
4-Other (Explain)

4

Exhibit G-Instructions for  
Preparation of Data  
Entry Sheets for Licensee  
Event Report ( ) File  
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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-237

UNIT II

DATE Feb. 1, 1984

COMPLETED BY B. A. Schroeder

TELEPHONE 815/942-2920

MONTH JANUARY, 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>712</u>	17	<u>746</u>
2	<u>749</u>	18	<u>784</u>
3	<u>787</u>	19	<u>793</u>
4	<u>794</u>	20	<u>784</u>
5	<u>791</u>	21	<u>778</u>
6	<u>790</u>	22	<u>734</u>
7	<u>793</u>	23	<u>794</u>
8	<u>758</u>	24	<u>737</u>
9	<u>690</u>	25	<u>742</u>
10	<u>7</u>	26	<u>794</u>
11	<u>442</u>	27	<u>772</u>
12	<u>705</u>	28	<u>745</u>
13	<u>774</u>	29	<u>789</u>
14	<u>764</u>	30	<u>787</u>
15	<u>729</u>	31	<u>789</u>
16	<u>774</u>		

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-249

UNIT III

DATE Feb. 1, 1984

COMPLETED BY B. A. Schroeder

TELEPHONE 815/942-2920

MONTH JANUARY, 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>



DRESDEN UNIT 2

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
MO2-1501-13B EPN #1501-13B	Preventive W.R. #28034	---	N/A	N/A	Replaced broken light bulb.
Scram/ECSS Yarway Valve Block EPN #LIS2-263-58A	Preventive W.R. #31650	---	N/A	N/A	Repacked all 3 valves on block assembly.
U-2 Diesel Generator	Preventive W.R. #31389	---	N/A	N/A	Dismantled and repaired valve operator.
Offgas Rad Monitor Ch. A EPN #2-1705-3A	Preventive W.R. #31703	---	N/A	N/A	Replaced "A" Offgas monitor with Unit 3 "A" monitor.
SRM 23 Retract Permit Light	Preventive W.R. #31497	---	N/A	N/A	Replaced lamp with a 30V lamp.
RWM CRD Posi- tion Indicator	Preventive W.R. #31450	---	N/A	N/A	Suspect computer problem -- problem resolved by itself.
U-2 SBLC Tank Pump Suction Heat Trace	Preventive W.R. #31180	---	N/A	N/A	Repaired broken heat trace.
Torus to Rx Bldg. Vacuum Breaker #2-1601-20B, EPN #A02-1601- 20B	Preventive W.R. #31344	---	N/A	N/A	Replaced Versa valve on torus to Rx. Bldg. vacuum breaker.

DRESDEN UNIT 2

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
#2 250V Battery Charger	Preventive W.R. #30756	---	N/A	N/A	Replaced and rewired "R1" resistors.
SRM #21	Preventive W.R. #31002	---	N/A	N/A	Replaced card and reset alarms.
Target Rock Valve	Preventive W.R. #31467	---	N/A	N/A	Replaced pressure switch.
Frame Mounted Aux. Hoist	Preventive W.R. #30912	---	N/A	N/A	Adjusted limit on frame hoist.
#42 Snubber	Preventive W.R. #31464	---	N/A	N/A	Moved pipe clamp up to remove binding problem.
"B" Inboard Feedwater Check, EPN # 2-220-58B	Preventive W.R. #31647	---	N/A	N/A	Replaced pressure seal rings.
Refuel Grapple	Preventive W.R. #29777	---	N/A	N/A	Replaced brake.
U-2 LPCI Suction Valve EPN #MO-1501-5C	Preventive W.R. #30641	---	N/A	N/A	Replaced both auxiliary contacts.
Scram Discharge Volume Level Switch	Preventive W.R. #23991	---	N/A	N/A	Replaced switch assembly.
IRM #13	Preventive W.R. #30192	---	N/A	N/A	Replaced relay.
RBM Channel 8 Inop.	Preventive W.R. #30534	---	N/A	N/A	Replaced blown fuse.



DRESDEN UNIT 2

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
Control Rod Drives	Preventive W.R. #27942	---	N/A	N/A	Disassembled and reassembled CRD.
Spare CRDs	Preventive W.R. #28215	---	N/A	N/A	Assembled CRDs.
Drywell Hi Rad Monitor Channel B, EPN #2-2419- B	Preventive W.R. #30119	---	N/A	N/A	Removed and replaced monitor.
LPRM Group II	Preventive W.R. #30535	---	N/A	N/A	Replaced broken fuse in 20VDC.
902-5 Alarms	Preventive W.R. #30385	---	N/A	N/A	Replaced pressure switch.
#2 Diesel Gen- erator	Preventive W.R. #30435	---	N/A	N/A	Performed quarterly inspection and replaced filters per DMP 6600-2.
Isolation Condenser Inlet MO2-1301- 1, EPN #2-1301- 1	Preventive W.R. #31459	---	N/A	N/A	Replaced motor on MO valve -- checked out satisfactorily.
Relay 590-102H EPN #590-102H	Preventive W.R. #30941	---	N/A	N/A	Investigated relay for proper operation. Operates satisfactorily.
Channel 2 APRM	Preventive W.R. #31700	---	N/A	N/A	Repaired defective contact pin in con- nector cable.
1501-3A Valve	Preventive W.R. #31628	---	N/A	N/A	Corrected valve opening by readjusting lock nut and set screw. Verified settings and limits.

DRESDEN UNIT 2

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
MO2-2301-36, EPN #MO2-2301-36	Preventive W.R. #28206	---	N/A	N/A	Relocated pushbutton station away from leakage problem.
MO 1501-3B	Preventive W.R. #29867	---	N/A	N/A	Inspected limit switch for cracks per INPO request -- none found.
MO 1501-3A	Preventive W.R. #29868	---	N/A	N/A	Inspected limit switch for cracks per INPO request -- none found.
MSIV 2-203-1B, EPN #2-203-1B	Preventive W.R. #29987	---	N/A	N/A	Readjusted limit switch to prevent double indication.
APKM Channel 1	Preventive W.R. #30659	---	N/A	N/A	Investigated APRM spiking problem -- burned "whisker" off per DIP 700-15.
SRM 21	Preventive W.R. #30022	---	N/A	N/A	Investigated SRM downscale problem, cleaned monitor connectors and recalibrated.
LPRM 40-17A (GP2)	Preventive W.R. #29751	---	N/A	N/A	Investigated abnormally high LPRM readings. Performed DIP 700-15.
2B RPS M6	Preventive W.R. #29253	---	N/A	N/A	Investigated motor thermal relay problem. Checked for proper relay size and checked all wire connections.
U-2 Local MO Valve Stations	Preventive W.R. #28786	---	N/A	N/A	Investigated valve position light indication -- problem repaired.
LPRM	Preventive W.R. #29907	---	N/A	N/A	Performed I.V. and T.D.R. arms for the listed LPRM's data required for G.E.

DRESDEN UNIT 2

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
Inboard MSIVs	Preventive W.R. #30211	---	N/A	N/A	Investigated blown fuse problem. Made visual inspection of relays and control switches. Performed amp checks.
SDV Header Monitor System	Preventive W.R. #30215	---	N/A	N/A	Performed system operability check per DIS 300-5.

DRESDEN UNIT 3

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
Feedwater Check Valve 3-220-62A, EPN #3-220-62A	Preventive W.R. #30807	---	N/A	N/A	Replaced check valve and made two hold tabs.
#57 Snubber Pipe Clamp, EPN #3-3019A-08	Preventive W.R. #30683	---	N/A	N/A	Adjusted pipe clamp to 534'8" elevation.
D-3 "A" Stand-by Liquid Control Pump, EPN #3-1102-A	Preventive W.R. #31503	---	N/A	N/A	Repacked pump.
Bus Tie 39-38 (On Bus 39)	Preventive W.R. #31593	---	N/A	N/A	Tightened terminal screw on CX7 -- breaker closed -- operating ok.
U-3 Rx Bldg. Interlock Doors	Preventive W.R. #31577	---	N/A	N/A	Replaced relay.
U-3 250V Battery Charger	Preventive W.R. #31619	---	N/A	N/A	Adjusted pots to make voltages correct. Adjusted readings on local meter.
#3 250V Battery Cell 101	Preventive W.R. #30932	---	N/A	N/A	Retorqued connectors on cell #101
125V DC Ground	Preventive W.R. #31578	---	N/A	N/A	Found pinched wire and taped it.
U-3 Bus 39 480V Breaker Feed From 34-1	Preventive W.R. #31639	---	N/A	N/A	Cleaned and adjusted motor cutout switch.

DRESDEN UNIT 3

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
1501-26B Manual Stop	Preventive W.R. #31336	---	N/A	N/A	Adjusted limit switch for proper alignment.
U-3 SBLC EPN #27851	Preventive W.R. #27851	---	N/A	N/A	Replaced squib valve.
3B SBLC Pump	Preventive W.R. #30389	---	N/A	N/A	Repacked 3B SBLC pump.
Auto Blowdown Time Delay Relay	Preventive W.R. #31388	---	N/A	N/A	Recalibrated timer.
#3 250V Bat- tery Charger	Preventive W.R. #30755	---	N/A	N/A	Removed and installed new resistors.
U-3 250VDC Battery Charger	Preventive W.R. #31372	---	N/A	N/A	Replaced circuit board.
HPCI 485 Valve Logic	Preventive W.R. #30416	---	N/A	N/A	Removed and installed necessary jumpers.
Turbine Stop Valve 590-124A Closure Valve	Preventive W.R. #31183	---	N/A	N/A	Tightened stud.
3-2301-31-31 Skinner Valve	Preventive W.R. #31102	---	N/A	N/A	Replaced yoke.
CRD Hatch	Preventive W.R. #27831	---	N/A	N/A	Opened CRD hatch.

DRESDEN UNIT 2/3

SAFETY RELATED MAINTENANCE - JANUARY, 1984

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
D-#1 Fuel and Canister Tool	Preventive W.R. #31778	---	N/A	N/A	Reversed couplings.
2/3 Diesel Generator Cooling Water Pump Cooling Water	Preventive W.R. #26931	---	N/A	N/A	Replaced 1/2" gate valve.
2/3 Diesel Generator	Preventive W.R. #25884	---	N/A	N/A	Replaced thermostat housing gasket.
2/3 Diesel Generator	Preventive W.R. #29149	---	N/A	N/A	Performed 6 month inspection.



## SUMMARY OF OPERATING EXPERIENCE

### UNIT TWO

JANUARY, 1984

01-01 to 01-10

Unit 2 entered the month at a power level of 730 MWe and operated until the 10th when the generator was disconnected from the grid. Problems developed with the 2B EHC pressure regulator. To repair, it required the generator to be off-line. During control rod insertions to reduce reactor power, a number of steps in the control rod sequence were skipped due to NSO misinterpretation. When the error was discovered, the Shift Engineer was immediately informed and a Qualified Nuclear Engineer (QNE) called in (all rod movement terminated). The QNE evaluated the Banked Position Withdrawal Sequence (BPWS) concerns, preconditioning and rod pattern symmetry. He then issued change log instructions to correct the control rod pattern to bring the control rods into compliance with the BPWS rules. A short time later control rod insertions were resumed to attain a Hot Standby condition.

01-10 to 01-31

The 2B EHC pressure regulator was repaired and checked for proper operation. An extensive investigation was also held to determine the cause of the control rod insertion incident. The necessary corrective actions included a new Operating Order, training sessions for licensed operators and revised procedural information. The unit was then brought back on-line per procedures.

The unit operated continuously for the remainder of the month (with normal power reductions on weekends for surveillances). The unit reached a power level of 836 MWe with a capacity factor of 91.45% and an availability of 97.07%.

SUMMARY OF OPERATING EXPERIENCE

UNIT THREE

JANUARY, 1984

01-01 to 01-31

Unit 3 was shutdown for the entire month for its scheduled refueling and equipment overhaul outage.

Major work includes:

- 1) H.P. Turbine and Main Generator overhaul
- 2) Inservice Inspection of Welds
- 3) CRD removal and replacement
- 4) LFRM removal and replacement



**Commonwealth Edison**

Dresden Nuclear Power Station

R.R. #1

Morris, Illinois 60450

Telephone 815/942-2920

February 1, 1984

DJS LTR: 84-130

Director, Office of Inspection  
and Enforcement  
United States Nuclear Regulatory  
Commission  
Washington, DC 20555

Attention: Document Control Desk

Dear Sir:

Enclosed, please find Dresden Station's operating data for last month. This information is supplied to your office per the instructions set forth in Regulatory Guide 1.16.

Sincerely,

D. J. Scott  
Station Superintendent  
Dresden Nuclear Power Station

DJS:BAE:hjb

Enclosure

cc: Region III, Regulatory Operations, U.S. NRC  
Chief, Division Nuclear Safety, State of Illinois  
U.S. NRC, Document Management Branch  
Nuclear Licensing Administrator  
Nuc. Sta. Div. Vice Pres.  
Manager, Tech. Serv. Nuc. Sta.  
Tech. Staff EA  
On-Site NRC Inspector  
Sta. Nuc. Eng. Dept.  
Comptroller's Office  
INPO Records Center  
PIP Coordinator  
File/NRC Op. Data  
File/Numerical

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