

OPERATING DATA REPORT

DOCKET NO. 50-418
 DATE May 15, 1991
 COMPLETED BY R.A. Williams
 TELEPHONE 704-273-5987

OPERATING STATUS

1. Unit Name: Catawba 1
2. Reporting Period: April 1, 1991-April 30, 1991
3. Licensed Thermal Power (MWt): 5411
4. Nameplate Rating (Gross MWe): 13054
5. Design Electrical Rating (Net MWe): 1145
6. Maximum Dependable Capacity (Gross MWe): 1192
7. Maximum Dependable Capacity (Net MWe): 1129
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: _____

Notes: #Nameplate Rating (Gross MWe) calculated as 1450,000 MVA x .90 power factor per Page iii, NUREG-0020.

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

10. Reason For Restrictions, If any: _____

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	714.0	2879.0	51168.0
12. Number Of Hours Reactor Was Critical	0.0	1664.7	37682.4
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	0.0	1604.9	36769.8
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	0	5132392	118434036
17. Gross Electrical Energy Generated (MWH)	0	1828982	41593466
18. Net Electrical Energy Generated (MWH)	-4691	1710138	38976367
19. Unit Service Factor	0.0	55.7	71.9
20. Unit Availability Factor	0.0	55.7	71.9
21. Unit Capacity Factor (Using MDC Net)	0.0	52.6	67.1
22. Unit Capacity Factor (Using DER Net)	0.0	51.9	66.5
23. Unit Forced Outage Rate	0.0	5.3	12.4

24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Currently Refueling

25. If Shut Down At End Of Report Period, Estimated Date of Startup: June 14, 1991

26. Units In Test Status (Prior to Commercial Operation):

Forecast Achieved

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO 50-413
 UNIT Catawba 1
 DATE May 15, 1991
 COMPLETED BY R.A. Williams
 TELEPHONE 704-273-5987

MONTH April, 1991

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>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April 1991

DOCKET NO. 50-413
 UNIT NAME CATAWBA 1
 DATE 05/15/91
 COMPLETED BY S. W. MOSER
 TELEPHONE (704)-373-5762

N O .	DATE	(1) T Y P E	DURATION HOURS	(2) R E A S O N	(3) M E T H O D O F S H U T D O W N R/X	LICENSE EVENT REPORT NO.	(4) S Y S - T E M C O D E	(5) C O M P O N E N T C O D E	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
4	91- 4- 1	S	719.00	C	1		RC	FUELXX	END OF CYCLE '4' REFUELING 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-Operator Error (Explain)
 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 (LER)
 File (NUREG-0161)

(5)
 Exhibit I - Same Source

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 1
2. Scheduled next refueling shutdown: Currently Refueling
3. Scheduled restart following refueling: June 1991

THE PROJECT MANAGER HAS BEEN ADVISED BY SEPARATE COMMUNICATION OF ANY T.S. CHANGE OR LICENSE AMENDMENT. THEREFORE, QUESTIONS 4 THROUGH 6 WILL NO LONGER BE MAINTAINED IN THIS REPORT.

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

If yes, what will these be? _____

If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions?

5. Scheduled date(s) for submitting proposed licensing action and supporting information:
6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures).
7. Number of fuel assemblies (a) in the core: 193
(b) in the spent fuel pool: 337
8. Present licensed fuel pool capacity: 1418
Size of requested or planned increase: -
9. Projected date of last refueling which can be accommodated by present licensed capacity: September 2009

DUKE POWER COMPANY

DATE: May 15, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

DOCKET NO: 50-413

UNIT: Catawba 1

DATE: 5/15/91

NARRATIVE SUMMARY

MONTH: April 1991

Catawba Unit 1 began the month of April shut down for its end-of-cycle "5" refueling outage. The unit remained in the outage for the entire month.

Prepared by: S. W. Moser
Telephone: 704-373-5762

OPERATING DATA REPORT

OPERATING STATUS

DOCKET NO. 50-414

DATE May 15, 1991

COMPLETED BY R.A. Williams

TELEPHONE 704-373-5987

1. Unit Name: Catawba 2
2. Reporting Period: April 1, 1991-April 30, 1991
3. Licensed Thermal Power (MWT): 3411
4. Nameplate Rating (Gross MWe): 1205*
5. Design Electrical Rating (Net MWe): 1145
6. Maximum Dependable Capacity (Gross MWe): 1192
7. Maximum Dependable Capacity (Net MWe): 1129
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: _____

Notes: *Nameplate Rating (Gross MWe) calculated as 1450,000 MVA x .90 power factor per Page 111, NUREG-0020.

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

10. Reason For Restrictions, If any: _____

This Month Yr.-to-Date Cumulative

11. Hours In Reporting Period	719.0	2879.0	4184.0
12. Number Of Hours Reactor Was Critical	573.2	2641.9	30239.9
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	553.2	2609.4	29550.4
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1698737	8521281	91890361
17. Gross Electrical Energy Generated (MWH)	613731	3050947	32514372
18. Net Electrical Energy Generated (MWH)	572594	2881762	30464375
19. Unit Service Factor	76.9	90.6	71.8
20. Unit Availability Factor	76.9	90.6	71.8
21. Unit Capacity Factor (Using MDC Net)	70.5	89.7	65.3
22. Unit Capacity Factor (Using DER Net)	69.6	87.4	64.6
23. Unit Forced Outage Rate	23.1	6.0	13.9

24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Refueling - October 18, 1991 - 9 weeks

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

26. Units In Test Status (Prior to Commercial Operation):

Forecast Achieved

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50-414
 UNIT Catawba 2
 DATE May 15, 1991
 COMPLETED BY R.A. Williams
 TELEPHONE 704-273-5987

MONTH April, 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1135</u>	17	<u>0</u>
2	<u>1135</u>	18	<u>0</u>
3	<u>1135</u>	19	<u>0</u>
4	<u>1133</u>	20	<u>0</u>
5	<u>1110</u>	21	<u>0</u>
6	<u>1108</u>	22	<u>0</u>
7	<u>1132</u>	23	<u>0</u>
8	<u>1130</u>	24	<u>289</u>
9	<u>1131</u>	25	<u>683</u>
10	<u>1136</u>	26	<u>1085</u>
11	<u>1136</u>	27	<u>1135</u>
12	<u>1140</u>	28	<u>1130</u>
13	<u>1140</u>	29	<u>1127</u>
14	<u>1135</u>	30	<u>1132</u>
15	<u>1130</u>		
16	<u>627</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414

UNIT NAME CATAWBA 2

DATE 05/15/91

COMPLETED BY S. W. MOSEK

TELEPHONE (704)-373-5762

PAGE 1 OF 2

REPORT MONTH April 1991

N O	DATE	(1) T Y P E	DURATION HOURS	(2) R E A S O N	(3) M E T H O D O F S H U T D O W N R/X	LICENSE EVENT REPORT NO.	(4) S Y S T E M C O D E	(5) C O M P O N E N T C O D E	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
2	91- 4-16	F	0.02	A	3		HB	VALVEX	TRIP DUE TO STEAM GENERATOR 'C' HI-HI LEVEL DUE TO FEEDWATER REGULATING VALVE FAILURE
3	91- 4-16	F	57.10	A	--		WB	PUMPXX	SEAL REPLACEMENT ON '1A' NUCLEAR SERVICE WATER PUMP
4	91- 4-19	F	97.00	A	--		HH	VALVEX	FEEDWATER CHECK VALVE PROBLEMS
5	91- 4-23	F	11.72	A	--		HA	GENERA	DIFFERENTIAL GENERATOR SEAL OIL PRESSURE
4-P	91- 4-23	F	--	A	--		HH	VALVEX	STEAM GENERATOR '2C' FEEDWATER CONTAINMENT ISOLATION VALVE FAILURE
5-P	91- 4-24	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TEST
6-P	91- 4-24	F	--	B	--		IA	INSTRU	NUCLEAR INSTRUMENTATION CALIBRATION

(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-Operator Error (Explain)
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 (LER)
File (NUREG-0161)

(5)
Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414

UNIT NAME CATAWBA 2

DATE 05/15/91

COMPLETED BY S. W. MOSER

TELEPHONE (704)-373-5762

PAGE 2 OF 2

REPORT MONTH April 1991

N O -	DATE	(1) T Y P E	DURATION HOURS	(2) R E A S O N	(3) METH- OD OF SHUT DOWN R/X	LICENSE EVENT REPORT NO.	(4) SYS- TEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
7-P	91- 4-24	F	--	A	--		CB	PUMPXX	REACTOR COOLANT LEAKAGE AT REACTOR COOLANT PUMP
8-P	91- 4-25	F	--	A	--		HH	TURBIN	MAIN FEEDWATER PUMP TURBINE '2A' REPAIR
9-P	91- 4-25	F	--	A	--		HH	PUMPXX	HIGH VIBRATION ON 'B' CONDENSATE BOOSTER PUMP
10-P	91- 4-25	F	--	A	--		HH	TURBIN	MAIN FEEDWATER PUMP TURBINE '2A' REPAIR

(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-Operator Error (Explain)
H-Other (Explain)

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Method:
1-Manual
2-Manual Scram
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(4)
Exhibit G - Instructions
for Preparation of Data
Entry Sheets For Licensee
Event Report (LER)
File (NUREG-0161)

(5)
Exhibit I - Same Source

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 2
2. Scheduled next refueling shutdown: October 1991
3. Scheduled restart following refueling: December 1991

THE PROJECT MANAGER HAS BEEN ADVISED BY SEPARATE COMMUNICATION OF ANY T.S. CHANGE OR LICENSE AMENDMENT. THEREFORE, QUESTIONS 4 THROUGH 6 WILL NO LONGER BE MAINTAINED IN THIS REPORT.

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

If yes, what will these be? _____

If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions?

5. Scheduled date(s) for submitting proposed licensing action and supporting information:
6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures).
7. Number of fuel assemblies (a) in the core: 193
(b) in the spent fuel pool: 204
8. Present licensed fuel pool capacity: 1418
Size of requested or planned increase: ---
9. Projected date of last refueling which can be accommodated by present licensed capacity: September 2011

DUKE POWER COMPANY

DATE: May 15, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

DOCKET NO: 50-414

UNIT: Catawba 2

DATE: 5/15/91

NARRATIVE SUMMARY

MONTH: April 1991

Catawba Unit 2 began the month of April operating at 100% full power. The unit operated at or near 100% full power until 1054 on 04/16, when a power decrease to 10% was begun as a precautionary measure for work on the nuclear service water system associated with the unit 1 refueling outage. At 1453 on 04/16, the turbine tripped from 25% power due to high level in 'C' steam generator which resulted from the main feedwater control valve not responding. The unit remained off-line until 1243 on 04/23. Critical path work during this outage included nuclear service water system work and feedwater check valve work. After taking the reactor critical, a delay in putting the generator on-line was caused by generator seal oil pressure problems. During the subsequent power increase, the unit was held at 29% power from 0700 to 1000 on 04/24 for a turbine control valve movement test, at 49% power from 1715 on 04/24 to 0235 on 04/25 for nuclear instrumentation power mismatch adjustments, at 63% power from 0410 to 1405 on 04/25 for '2A' main feedwater pump turbine repairs, at 64% power from 1440 to 1606 on 04/25 for high vibration on '2B' condensate booster pump, and at 68% from 1730 on 04/25 to 0005 on 04/26 for repairs to the '2A' main feedwater pump turbine. The unit reached 100% full power at 1050 on 04/26, and operated at or near 100% full power for the remainder of the month.

Prepared by: S. W. Moser
Telephone: 704-373-5762