

Duke Power Company
Nuclear Production Dept
P.O. Box 1007
Charlotte, N.C. 28201-1007

M.S. TUCKMAN
Vice President
Nuclear Operations
(704) 372-3851



DUKE POWER

August 15, 1991

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

Re: Catawba Nuclear Station
Docket No. 50-413 and 50-414

Dear Sir:

Please find attached information concerning the performance and operating status of the Catawba Nuclear Station for the month of July 1991.

Very truly yours,

M.S. Tuckman

M.S. Tuckman

JAR/15/jar

Attachment

xc: Mr. Stewart D. Ebnetter
Regional Administrator, Region II

Mr. Richard G. Oehl, NE-44
U. S. Department of Energy
19901 Germantown Road
Germantown, Maryland 20874

Mr. W. T. Orders
Senior Resident Inspector
Catawba Nuclear Station

INPO Records Center

American Nuclear Insurers

Mr. Bob Martin
ONRR

Ms. Vickie White
Nuclear Assurance Corporation
6251 Crooked Creek Road
Norcross, Georgia 30092

9108210108 910731
PDR ADOCK 05000413
R PDR

IE24
1/1

OPERATING DATA REPORT

OPERATING STATUS

DOCKET NO 50-412

DATE August 15, 1991

COMPLETED BY R.A. Williams

TELEPHONE 704-373-5987

1. Unit Name: Catawba 1
2. Reporting Period: July 1, 1991-July 31, 1991
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1305*
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	744.0	5087.0	53376.0
12. Number Of Hours Reactor Was Critical	712.2	2763.5	38781.2
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	701.2	2639.7	37804.6
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2182448	8127861	121429505
17. Gross Electrical Energy Generated (MWH)	764108	2858234	42622718
18. Net Electrical Energy Generated (MWH)	718477	2648042	39914271
19. Unit Service Factor	94.2	51.9	70.8
20. Unit Availability Factor	94.2	51.9	70.8
21. Unit Capacity Factor (Using MDC Net)	85.5	46.1	65.8
22. Unit Capacity Factor (Using DER Net)	84.3	45.5	65.3
23. Unit Forced Outage Rate	5.8	6.5	12.3

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

None

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 50-413
 UNIT Catawba I
 DATE August 15, 1991
 COMPLETED BY R.A. Williams
 TELEPHONE 704-373-5967

MONTH July, 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1115</u>	17	<u>1133</u>
2	<u>1112</u>	18	<u>1114</u>
3	<u>1119</u>	19	<u>1125</u>
4	<u>996</u>	20	<u>1128</u>
5	<u>930</u>	21	<u>1127</u>
6	<u>673</u>	22	<u>1127</u>
7	<u>679</u>	23	<u>1126</u>
8	<u>683</u>	24	<u>1127</u>
9	<u>1078</u>	25	<u>1095</u>
10	<u>391</u>	26	<u>1090</u>
11	<u>0</u>	27	<u>1129</u>
12	<u>182</u>	28	<u>1130</u>
13	<u>796</u>	29	<u>1130</u>
14	<u>1129</u>	30	<u>1127</u>
15	<u>1132</u>	31	<u>1131</u>
16	<u>1132</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1991DOCKET NO. 50-413UNIT NAME CATAWBA IDATE 08/15/91COMPLETED BY S. W. MOSERTELEPHONE (704)-373-5762

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
26-P	91- 7- 4	F	--	A	--		CH	VALVEX	FEEDWATER PUMP 'B' GOVERNOR VALVE TROUBLESHOOTING
27-P	91- 7- 5	F	--	A	--		CH	VALVEX	FEEDWATER PUMP 'B' GOVERNOR VALVE TROUBLESHOOTING
9	91- 7-10	F	42.82	A	3		HJ	PUMPXX	'1C1' HEATER DRAIN TANK PUMP OUTLET CONTROL
28-P	91- 7-12	F	--	B	--		HG	WTEXCH	SECONDARY SIDE BORON SOAK \ STEAM GENERATOR CHEMISTRY OUT OF SPEC
29-P	91- 7-13	F	--	A	--		HJ	PIPEXX	CONDENSER TUBE CLEANING
30-P	91- 7-25	F	--	A	--		CF	ACCUMU	REFUELING WATER STORAGE TANK LOW BORON

(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

DOCKET NO: 50-413

UNIT: Catawba 1

DATE: 8/15/91

NARRATIVE SUMMARY

MONTH: July 1991

Catawba Unit 1 began the month of July operating at 100% full power. The unit operated at or near 100% full power until 1400 on 07/04, when a load reduction was commenced for feedwater pump turbine '1B' governor valve maintenance. The unit was held at 65% power from 1800 to 2156 on 07/04, and returned to 100% full power at 1255 on 07/05. The unit operated at 100% full power until 1543 on 07/05, when a power reduction was begun for feedwater pump turbine '1B' governor valve maintenance. The unit was held at 65% power from 1815 on 07/05 to 2340 on 07/08, and returned to 100% full power at 0649 on 07/09. The unit operated at 100% full power until 0900 on 07/10, when a power reduction was commenced due to high feedwater pump delta P caused by loss of flow from the 'C' heater drain tank pump. The main turbine tripped from 92% power at 0901 on 07/10 due to loss of both feedwater pumps on low suction pressure. The reactor tripped on main turbine trip. The unit was returned on-line at 0352 on 07/12. During the power increase, the unit was held at 30% power from 0900 to 1859 on 07/12 for steam generator boron soak, and at 49% power from 0010 to 0424 on 07/13 for 'B' train condenser cooling water / condenser tube cleaning problems. The unit returned to 100% full power at 0615 on 07/19, and operated at 100% full power until 2035 on 07/25, when a reactor shutdown was commenced due to refueling water storage tank boron concentration being out of spec. The power reduction was stopped at 74% power at 2150 on 07/25 pending evaluation of the boron sample results. At 2335 on 07/25, having found the samples to be in error, a power increase was begun. The unit reached 100% full power at 0738 on 07/26, and operated at or near 100% full power for the remainder of the month.

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

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 1
2. Scheduled next refueling shutdown: May 1992
3. Scheduled restart following refueling: August 1992

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: 336
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: August 15, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

OPERATING DATA REPORT

OPERATING STATUS

DOCKET NO 50-414

DATE August 15, 1991

COMPLETED BY R.A. Williams

TELEPHONE 704-373-5287

1. Unit Name: Catawba 2
2. Reporting Period: July 1, 1991-July 31, 1991
3. Licensed Thermal Power (MWt): 3.11
4. Nameplate Rating (Gross MWe): 1305*
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	744.0	5087.0	43392.0
12. Number Of Hours Reactor Was Critical	744.0	4826.8	32424.7
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	744.0	4792.5	31737.5
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2513994	15887216	99256296
17. Gross Electrical Energy Generated (MWH)	882226	5642027	35105452
18. Net Electrical Energy Generated (MWH)	837106	5339833	32922446
19. Unit Service Factor	100.0	94.2	73.1
20. Unit Availability Factor	100.0	94.2	73.1
21. Unit Capacity Factor (Using MDC Net)	99.7	93.0	66.9
22. Unit Capacity Factor (Using DER Net)	98.3	91.7	66.3
23. Unit Forced Outage Rate	0.0	3.8	13.1

24. Shutdowns 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 August 15, 1991
 COMPLETED BY R.A. Williams
 TELEPHONE 704-373-5987

MONTH July, 1991

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1118</u>
2	<u>1119</u>
3	<u>1128</u>
4	<u>1127</u>
5	<u>1130</u>
6	<u>1131</u>
7	<u>1128</u>
8	<u>1128</u>
9	<u>1129</u>
10	<u>1126</u>
11	<u>1125</u>
12	<u>1124</u>
13	<u>1127</u>
14	<u>1126</u>
15	<u>1129</u>
16	<u>1129</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1131</u>
18	<u>1126</u>
19	<u>1124</u>
20	<u>1124</u>
21	<u>1125</u>
22	<u>1127</u>
23	<u>1124</u>
24	<u>1125</u>
25	<u>1129</u>
26	<u>1085</u>
27	<u>1107</u>
28	<u>1133</u>
29	<u>1130</u>
30	<u>1133</u>
31	<u>1132</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1991DOCKET NO. 50-414UNIT NAME CATAWBA 2DATE 08/15/91COMPLETED BY S. W. MOSERTELEPHONE (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
		NO	SHUTDOWNS	OR		REDUCTIONS			

(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

DOCKET NO: 50-414

UNIT: Catawba 2

DATE: 8/15/91

NARRATIVE SUMMARY

MONTH: July 1991

Catawba Unit 2 began the month of July operating at 100% full power. The unit operated at or near 100% full power for the entire month, and ended the month operating at 100% full power.

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

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: August 15, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

CATAWBA NUCLEAR STATION
MONTHLY OPERATING STATUS REPORT

June 1991

1. Personnel Exposure -

For the month of June, no individual(s) exceeded 10 percent of their allowable annual radiation dose limit.

2. The total station liquid release for June has been compared with the Technical Specifications maximum annual dose commitment and was less than 10 percent of this limit.

The total station gaseous release for June has been compared with the Technical Specifications maximum annual dose commitment and was less than 10 percent of this list.