Duke Power Company
P.O. Box 1006
Charlotte, NC 28201-1006

DUKE POWER

November 15, 1996

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

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

Dear Sir:

Please find attached information concerning the performance and operation status of the Catawba Nuclear Station for the month of October, 1996.

Any questions or comments may be directed to Roger A. Williams at (704) 382-5346.

Sincerely,

Terry Dimmery, Manager
Nuclear Business Support

Attachment

Steward D. Ebneter, Regional Administrator
USNPC, Region II C/O R. V. Crlenjak

Peter Tam, Project Manager
USNRC, ONRR

INPO Records Center

Ms. Margaret Aucoin
Nuclear Assurance Corporation

Dottie Sherman, ANI Library
American Nuclear Insurers

R. J. Freudenberger, Senior Resident Inspector

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Document Control Desk
U.S. NRC - Catawba

bxc:

J. M. Davis (ON01VP)
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C. N. Green (MG01OP)
B. W. Walsh (EC11C)
Jeanette Meares (CN02OP)
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D. R. Groux (ON01VP)
B. T. Faulkenberry (EC07C)
M. J. Johnson (PB02L)
D. A. Harton (EC05P)
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S. P. Weise (EC07H)
J. S. Forbes (CN01EG)
E. G. LaCasse (CN01BM)
M. S. Kitlan (CN01RC)
S. F. Hatley (CN03MC)

OPERATING DATA REPORT

DOCKET NO 50-413
DATE November 15, 1996
COMPLETED BY R.L. Williams
TELEPHONE 704-382-5346

OPERATING STATUS

1. Unit Name: Catawba 1
2. Reporting Period: October 1, 1996-October 31, 1996
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	745.0	7320.0	99433.0
12. Number Of Hours Reactor Was Critical	714.0	4526.7	76820.4
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	664.4	4438.2	75526.9
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1811609	14149011	246099270
17. Gross Electrical Energy Generated (MWH)	640709	5061422	86964233
18. Net Electrical Energy Generated (MWH)	596704	4742794	81787883
19. Unit Service Factor	89.2	60.6	76.0
20. Unit Availability Factor	89.2	60.6	76.0
21. Unit Capacity Factor (Using MDC Net)	70.9	57.4	72.6
22. Unit Capacity Factor (Using DER Net)	70.0	56.6	71.8
23. Unit Forced Outage Rate	0.0	3.5	7.9

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 1
DATE November 15, 1996
COMPLETED BY R.A. Williams
TELEPHONE 704-382-5346

MONTH October, 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	1157
2	0	18	1160
3	0	19	1169
4	4	20	1169
5	199	21	1166
6	385	22	1163
7	506	23	1163
8	663	24	1167
9	740	25	1164
10	944	26	1162
11	1157	27	599
12	1163	28	652
13	1163	29	745
14	1161	30	461
15	1156	31	473
16	1157		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October 1996

DOCKET NO. 50-413
UNIT NAME CATAWBA 1
DATE 11/15/96
COMPLETED BY R. A. Williams
TELEPHONE (704)-382-5346

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUTDOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
4	96-10- 1	S	78.57	A	--		CH	HTEXCH	3.27 DAY OUTAGE EXTENSION DUE TO STEAM GENERATOR REPLACEMNET WELDING PROBLEMS
8-P	96-10- 4	S	--	B	--		HA	TURBIN	MAIN TURBINE OVERSPEED TRIP TEST SOAK
5	96-10- 4	S	2.00	B	--		HA	TURBIN	MAIN TURBINE OVERSPEED TRIP TEST
9-P	96-10- 5	S	--	B	--		IA	INSTRU	POWER ASCENSION TESTING
10-P	96-10- 6	S	--	B	--		IA	INSTRU	POWER ASCENSION TESTING
11-P	96-10- 8	F	--	A	--		HA	INSTRU	INVESTIGATE TURBINE GENERATOR CONTROL RESPONSE
12-P	96-10- 8	F	--	A	--		HA	GENERA	HIGH GENERATOR COOLING SYSTEM TEMPERATURE

(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

REPORT MONTH October 1996

DOCKET NO. 50-413
UNIT NAME CATAWBA 1
DATE 11/15/96
COMPLETED BY R. A. Williams
TELEPHONE (704)-382-5346

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUTDOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
13-P	96-10- 8	S	--	B	--		HA	TRANSF	UNIT LOAD TRANSIENT TEST
14-P	96-10- 9	F	--	A	--		HA	GENERA	GENERATOR COOLING SYSTEM TEMPERATURE PROBLEMS
15-P	96-10-27	F	--	A	--		EA	TRANSF	"1A" MAIN TRANSFORMER COOLING PROBLEM
16-P	96-10-28	F	--	A	--		HA	CKTBKR	GENERATOR BREAKER "1AT" MOTOR OPERATED DISCONNECT CLOSURE PROBLEM

(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: December 1997

3. Scheduled restart following refueling: January 1998

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: 632

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 license capacity: September 2009

DUKE POWER COMPANY DATE: November 15, 1996

Name of Contact: R. A. Williams Phone: (704) - 382-5346

DOCKET: 50 -413

UNIT: Catawba 1

Date: 11/15/96

NARRATIVE SUMMARY

MONTH: October, 1996

Catawba Unit 1 began the month of October in end-of-cycle 09 refueling and maintenance outage which includes steam generator replacement work. The refueling and maintenance outage has spanned a total of 113.34 days and was scheduled for 100 days. On 09/20/96 at 2218 the refueling and maintenance outage was extended an additional 13.34 days due to steam generator replacement welding activity problems On 10/04/96 at 0634 the unit was placed on-line. During power escalation, the unit held at 16% power due to main turbine overspeed trip test soak. On 10/04/96 at 1807 the main turbine overspeed trip test was performed. The unit returned to service 10/04/96 2007. The unit held for power ascension testing at 30% power from 10/05/96 at 1157 to 10/06/96 at 0701 and from 1630 to 10/07/96 at 2220. On 10/08/96 from 1347 to 1500 the unit held at 68% power to investigate sluggish turbine generator control response. After resuming power escalation, the unit held at 71% power from 1640 to 2332 due to high generator cooling system temperature. On 10/08/96 at 2332 the unit load transient test was performed and the unit decrease power to 60% and held from 10/08/96 at 2340 to 10/09/96 to 0110. The unit increased power to 67% and held from 10/09/96 at 0400 to 10/10/96 at 0345 pending resolution of generator cooling system temperature problems. The unit returned to 100% full power on 10/10/96 at 2109 and operated at or near 100% full power until 10/27/96 at 0215 when the unit began decreasing power to remove "1A" main transformer from service due to cooling problems and held at 48% power from 0238 to 10/28/96 at 1315. During power escalation, the unit held at 51% power from 10/28/96 at 1350 to 1545 due to generator breaker "1AT" motor operated disconnect closure problem. The unit returned to 100% full power on 10/29/96 at 0518 and operated at or near 100% full power until 0853 when the unit began decreasing power and held from 1121 to 10/31/96 at 2240 to remove "1A" main transformer from service for further maintenance. The unit returned to approximately 57% full power by the end of the month.

Prepared by: R. A. Williams
Telephone: (704) - 382-5346

OPERATING DATA REPORT

DOCKET NO 50-414
DATE November 15, 1996
COMPLETED BY R.A. Williams
TELEPHONE 704-382-5346

OPERATING STATUS

1. Unit Name: Catawba 2
2. Reporting Period: October 1, 1996-October 31, 1996
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	745.0	7320.0	89449.0
12. Number Of Hours Reactor Was Critical	745.0	6872.8	71038.9
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	745.0	6818.9	69956.6
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2531181	22980514	226397052
17. Gross Electrical Energy Generated (MWH)	909251	8203381	80307748
18. Net Electrical Energy Generated (MWH)	865115	7774580	75686837
19. Unit Service Factor	100.0	93.2	78.2
20. Unit Availability Factor	100.0	93.2	78.2
21. Unit Capacity Factor (Using MDC Net)	102.9	94.1	74.8
22. Unit Capacity Factor (Using DER Net)	101.4	92.8	73.9
23. Unit Forced Outage Rate	0.0	6.5	8.7

24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling - March 14, 1997 - 45 days

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 November 15, 1996
COMPLETED BY R.A. Williams
TELEPHONE 704-382-5346

MONTH October, 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1150	17	1160
2	1147	18	1160
3	1146	19	1166
4	1157	20	1167
5	1162	21	1165
6	1164	22	1161
7	1165	23	1162
8	1159	24	1167
9	1161	25	1166
10	1166	26	1165
11	1166	27	1162
12	1167	28	1157
13	1167	29	1159
14	1163	30	1154
15	1162	31	1164
16	1161		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October 1996

DOCKET NO. 50-414
UNIT NAME CATAWBA 2
DATE 11/15/96
COMPLETED BY R. A. Williams
TELEPHONE (704)-382-5346

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUTDOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
		NO	SHUTDOWNS	OR		REDUCTION	S		

(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 2

2. Scheduled next refueling shutdown: March 1997

3. Scheduled restart following refueling: April 1997

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: 524

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 license capacity: September 2011

DUKE POWER COMPANY DATE: November 15, 1996

Name of Contact: R. A. Williams Phone: (704) - 382-5346

DOCKET: 50- 414

UNIT: Catawba 2

Date: 11/15/96

NARRATIVE SUMMARY

MONTH: October, 1996

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

Prepared by: R. A. Williams
Telephone: (704) - 382-5346

CATAWBA NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

September 1996

1. Personnel Exposure -

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