

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.    05000269  
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co.    05000270  
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.    05000287

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 MOSER, S.W.    Duke Power Co.  
 TUCKMAN, M.S.    Duke Power Co.  
 RECIP. NAME    RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for May 1991 for Oconee Nuclear Station Units 1, 2 & 3. W/910614 ltr.

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MR  
R.W.

Duke Power Company  
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Charlotte, N.C. 28201-1007

M.S. TUCKMAN  
Vice President  
Nuclear Operations  
(704)373-3851



**DUKE POWER**

June 14, 1991

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

Re: Oconee Nuclear Station  
Docket No. 50-269, -270, -287

Dear Sir:

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

Very truly yours,

M.S. Tuckman

JAR/15/jar

Attachment

xc: Mr. Stewart D. Ebnetter  
Regional Administrator/Region II  
U. S. Nuclear Regulatory Commission  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

INPO Records Center  
Suite 1500  
1100 Circle 75 Parkway  
Atlanta, Georgia 30323

Mr. L. A. Wiens, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

American Nuclear Insurers  
c/o Dottie Sherman, ANI Library  
The Exchange, Suite 245  
270 Farmington Avenue  
Farmington, CT 06032

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

Mr. P.H. Skinner  
NRC Resident Inspector  
Oconee Nuclear Station

9106210173 910531  
PDR ADOCK 05000269  
R PDR

TE 24 11

# OPERATING DATA REPORT

## OPERATING STATUS

1. Unit Name: Oconee 1
2. Reporting Period: May 1, 1991-May 31, 1991
3. Licensed Thermal Power (MWT): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 886
6. Maximum Dependable Capacity (Gross MWe): 886
7. Maximum Dependable Capacity (Net MWe): 846
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: \_\_\_\_\_

Notes Year-to date and cumulative capacity factors are calculated using a weighted average for maximum dependable capacity.

DOCKET NO 50-269  
DATE June 14, 1991  
COMPLETED BY R.A. Williams  
TELEPHONE 704-373-5987

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	3623.0	156696.0
12. Number Of Hours Reactor Was Critical	714.2	3593.2	119514.4
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	711.1	3590.1	117054.2
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1794720	9163440	285492430
17. Gross Electrical Energy Generated (MWH)	619550	3165415	98809904
18. Net Electrical Energy Generated (MWH)	590668	3027733	93822988
19. Unit Service Factor	95.6	99.1	74.7
20. Unit Availability Factor	95.6	99.1	74.7
21. Unit Capacity Factor (Using MDC Net)	93.8	98.8	69.7
22. Unit Capacity Factor (Using DER Net)	89.6	94.3	67.5
23. Unit Forced Outage Rate	4.4	0.9	11.3
24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling - August 1, 1991 - 8 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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NRC Calculated from Generator Nameplate Data:  
1 037 937 KVA x 0.90 Pf=934 MW

# OPERATING DATA REPORT

DOCKET NO 50-269  
UNIT Oconee 1  
DATE June 14, 1991  
COMPLETED BY R.A. Williams  
TELEPHONE 704-373-5987

MONTH May, 1991

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>
1	<u>852</u>
2	<u>852</u>
3	<u>853</u>
4	<u>833</u>
5	<u>844</u>
6	<u>845</u>
7	<u>852</u>
8	<u>852</u>
9	<u>853</u>
10	<u>852</u>
11	<u>852</u>
12	<u>852</u>
13	<u>851</u>
14	<u>851</u>
15	<u>851</u>
16	<u>522</u>

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>
17	<u>0</u>
18	<u>546</u>
19	<u>698</u>
20	<u>830</u>
21	<u>846</u>
22	<u>847</u>
23	<u>847</u>
24	<u>847</u>
25	<u>847</u>
26	<u>846</u>
27	<u>846</u>
28	<u>846</u>
29	<u>845</u>
30	<u>845</u>
31	<u>845</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH May 1991

DOCKET NO. 50-269  
 UNIT NAME OCONEE 1  
 DATE 06/14/91  
 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
1	91- 5-16	F	32.90	A	3		IA	INSTRU	REACTOR TRIP, FLUX/FLOW IMBALANCE ALL FOUR REACTOR PROTECTION SYSTEM CHANNELS TRIPPED
8-P	91- 5-18	F	--	H	--		CG	ZZZZZZ	HOLD TO BORATE REACTOR COOLANT SYSTEM

(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 License  
 Event Report (LER)  
 File (NUREG-0161)

(5)  
 Exhibit I - Same Source

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee, Unit 1
2. Scheduled next refueling shutdown: August 1991
3. Scheduled restart following refueling: September 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: 177  
(b) in the spent fuel pool: 994\*  
(c) in the ISFSI: 216\*\*\*\*
8. Present licensed fuel pool capacity: 1312  
Size of requested or planned increase: \*\*
9. Projected date of last refueling which can be accommodated by present licensed capacity: February 2013\*\*\*

DUKE POWER COMPANY

DATE: June 14, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

\*Represents the combined total for Units 1 and 2

\*\*On January 29, 1990, received a license for the ISFSI which will store 2112 assemblies

\*\*\*This date is based on 88 Dry Storage Modules. We currently have 20 modules (480 spaces). Additional modules will be built on an as needed basis.

\*\*\*\*Represents the combined total for Units 1,2 and 3

DOCKET NO: 50-269

UNIT: Oconee 1

DATE: 6/14/91

# NARRATIVE SUMMARY

MONTH: May 1991

Oconee Unit 1 began the month of May operating at 100% full power. The unit operated at or near 100% full power until 1508 on 05/16, when the unit tripped due to reactor protection system flux/flow imbalance indication. The unit was returned on-line at 0002 on 05/18. The unit was held at approximately 30% power from 0256 to 0545 on 05/18 for adjustments to the reactor coolant system chemistry. The unit reached 100% full power at 0207 on 05/20, and operated at or near 100% full power for the remainder of the month.

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

# OPERATING DATA REPORT

DOCKET NO 50-270

DATE June 14, 1991

COMPLETED BY R.A. Williams

TELEPHONE 704-373-5987

## OPERATING STATUS

1. Unit Name: Oconee 2
2. Reporting Period: May 1, 1991-May 31, 1991
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 886
6. Maximum Dependable Capacity (Gross MWe): 886
7. Maximum Dependable Capacity (Net MWe): 846
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons: \_\_\_\_\_

Notes Year-to date and cumulative capacity factors are calculated using a weighted average for maximum dependable capacity.

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	3623.0	146616.0
12. Number Of Hours Reactor Was Critical	744.0	3623.0	114207.9
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	744.0	3623.0	112541.6
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MMWh)	1918608	9313224	271492814
17. Gross Electrical Energy Generated (MMWh)	666753	3241246	92594263
18. Net Electrical Energy Generated (MMWh)	639048	3109421	88123701
19. Unit Service Factor	100.0	100.0	76.8
20. Unit Availability Factor	100.0	100.0	76.8
21. Unit Capacity Factor (Using MDC Net)	101.5	101.5	70.0
22. Unit Capacity Factor (Using DER Net)	97.0	96.9	67.8
23. Unit Forced Outage Rate	0.0	0.0	9.9
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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NRC Calculated from Generator Nameplate Data:  
1 037 937 KVA x 0.90 Pf=934 MW



# OPERATING DATA REPORT

DOCKET NO 50-270  
UNIT Oconee 2  
DATE June 14, 1991  
COMPLETED BY R.A. Williams  
TELEPHONE 704-373-5987

MONTH May, 1991

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL</u> <u>(MWe-Net)</u>
1	<u>856</u>
2	<u>856</u>
3	<u>857</u>
4	<u>856</u>
5	<u>856</u>
6	<u>856</u>
7	<u>855</u>
8	<u>856</u>
9	<u>855</u>
10	<u>855</u>
11	<u>855</u>
12	<u>855</u>
13	<u>857</u>
14	<u>862</u>
15	<u>862</u>
16	<u>862</u>

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL</u> <u>(MWe-Net)</u>
17	<u>861</u>
18	<u>862</u>
19	<u>862</u>
20	<u>862</u>
21	<u>862</u>
22	<u>862</u>
23	<u>861</u>
24	<u>861</u>
25	<u>861</u>
26	<u>861</u>
27	<u>861</u>
28	<u>861</u>
29	<u>860</u>
30	<u>860</u>
31	<u>860</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH May 1991

DOCKET NO. 50-270  
 UNIT NAME OCONEE 2  
 DATE 06/14/91  
 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
		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 License  
 Event Report (LER)  
 File (NUREG-0161)

(5)  
 Exhibit I - Same Source

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee, Unit 2
2. Scheduled next refueling shutdown: January 1992
3. Scheduled restart following refueling: February 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: 177  
(b) in the spent fuel pool: 994\*  
(c) in the ISFSI: See Unit 1\*\*\*\*
8. Present licensed fuel pool capacity: 1312  
Size of requested or planned increase: \*\*
9. Projected date of last refueling which can be accommodated by present licensed capacity: October 2013\*\*\*

DUKE POWER COMPANY

DATE: June 14, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

\*Represents the combined total for Units 1 and 2.

\*\* See footnote on Unit 1

\*\*\* This date is based on 88 Dry Storage Modules. We currently have 20 modules (480 spaces). Additional modules will be built on an as needed basis.

\*\*\*\* See footnote on Unit 1

DOCKET NO: 50-270

UNIT: Oconee 2

DATE: 6/14/91

NARRATIVE SUMMARY

MONTH: May 1991

Oconee Unit 2 began the month of May operating at 100% full power.

The unit operated at 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

# OPERATING DATA REPORT

## OPERATING STATUS

DOCKET NO 50-287  
 DATE June 14, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5987

1. Unit Name: Oconee 3
2. Reporting Period: May 1, 1991-May 31, 1991
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 886
6. Maximum Dependable Capacity (Gross MWe): 886
7. Maximum Dependable Capacity (Net MWe): 846
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons: \_\_\_\_\_

Notes Year-to date and cumulative capacity factors are calculated using a weighted average for maximum dependable capacity.

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	3623.0	144263.0
12. Number Of Hours Reactor Was Critical	744.0	2560.5	109552.4
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	744.0	2526.7	108004.1
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1885944	6332088	266978649
17. Gross Electrical Energy Generated (MWH)	650465	2204574	92029147
18. Net Electrical Energy Generated (MWH)	623112	2104244	87754849
19. Unit Service Factor	100.0	69.7	74.9
20. Unit Availability Factor	100.0	69.7	74.9
21. Unit Capacity Factor (Using MDC Net)	99.0	68.7	70.9
22. Unit Capacity Factor (Using DER Net)	94.5	65.6	68.6
23. Unit Forced Outage Rate	0.0	0.8	10.9
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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NRC Calculated from Generator Nameplate Data:  
 1 037 937 KVA x 0.90 Pf=934 MW

# OPERATING DATA REPORT

DOCKET NO 50-287  
UNIT Oconee 3  
DATE June 14, 1991  
COMPLETED BY R.A. Williams  
TELEPHONE 704-373-5987

MONTH May, 1991

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>
1	<u>852</u>
2	<u>856</u>
3	<u>852</u>
4	<u>851</u>
5	<u>851</u>
6	<u>851</u>
7	<u>851</u>
8	<u>851</u>
9	<u>851</u>
10	<u>851</u>
11	<u>851</u>
12	<u>851</u>
13	<u>850</u>
14	<u>850</u>
15	<u>851</u>
16	<u>849</u>

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>
17	<u>843</u>
18	<u>847</u>
19	<u>848</u>
20	<u>850</u>
21	<u>850</u>
22	<u>849</u>
23	<u>849</u>
24	<u>717</u>
25	<u>596</u>
26	<u>849</u>
27	<u>850</u>
28	<u>849</u>
29	<u>849</u>
30	<u>849</u>
31	<u>849</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH May 1991

DOCKET NO. 50-287  
 UNIT NAME OCONEE 3  
 DATE 06/14/91  
 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
10-P	91- 5-24	S	--	A	--		CB	INSTRU	REPAIR '3A1' REACTOR COOLANT PUMP VIBRATION INSTRUMENTATION

(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 License  
 Event Report (LER)  
 File (NUREG-0161)

(5)  
 Exhibit I - Same Source

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee, Unit 3
2. Scheduled next refueling shutdown: June 1992
3. Scheduled restart following refueling: July 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: 177  
(b) in the spent fuel pool: 580  
(c) in the ISFSI: See Unit 1\*\*\*\*
8. Present licensed fuel pool capacity: 825  
Size of requested or planned increase: \*\*
9. Projected date of last refueling which can be accommodated by present licensed capacity: July 2014\*\*\*

DUKE POWER COMPANY

DATE: June 14, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

\*\* See footnote on Unit 1

\*\*\* This date is based on 88 Dry Storage Modules. We currently have 20 modules (480 spaces). Additional modules will be built on an as needed basis.

\*\*\*\* See footnote on Unit 1



DOCKET NO: 50-287

UNIT: Oconee 3

DATE: 6/14/91

#### NARRATIVE SUMMARY

MONTH: May 1991

Oconee Unit 3 began the month of May operating at 100% full power.

The unit operated at 100% full power until 1730 on 05/24, when a power reduction was commenced due to high vibration indication on reactor coolant pump '3A1'. The unit was held at approximately 15% power from 2200 on 05/24 to 0349 on 05/25 to repair the instrumentation. The unit reached 100% full power at 1418 on 05/25, and operated at 100% full power for the remainder of the month.

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