Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

December 18, 1980

Ms. Rebecca Hanmer
Regional Administrator
Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30308

Dear Ms. Hanmer:

Attached are several revisions to Georgia's State Implementation Plan for Air Quality Control. There are five copies of these revisions.

These revisions include a lead SIP for Georgia; alternate compliance schedules for St. Regis Paper Company in Atlanta, Printpak in Atlanta, American Can Company in Forest Park; a "bubble" for ITT Rayonier near Jesup; modifications to Georgia's Air Rules incorporating Set II VOC regulations and EPA's revised PSD regulations; and a modification to the alternate method of compliance for Georgia Power's Plant Bowen.

We are not including the alternate opacity for Union Camp's 11 and 12 power boilers in that EPA continues to fail to respond to this matter. Once EPA responds and this matter can be resolved, we will forward this revision to you.

Sincerely,

J. Leonard Ledbetter

J. Leonard Ledbetter
Director

JLL:mlr
Enclosures
c: Robert H. Collom
Thomas W. Devine

DEC 18, 1980 SIP REV.
MODIFICATION TO ALTERNATIVE METHOD OF COMPLIANCE

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

IN THE MATTER OF:

PLANT BOWEN UNITS 1 AND 2
GEORGIA POWER COMPANY
TAYLORSVILLE, GEORGIA

ORDER NUMBER - EPD-AQC-180

PROCEEDING UNDER THE GEORGIA
AIR QUALITY ACT OF 1978

ORDER

This Order is issued pursuant to the Georgia Air Quality Act of 1978 (Georgia Code Ann. 43-2701 et seq; hereinafter referred to as the "Act").

The purpose of this Order is to impose operating limitations on Plant Bowen Units 1 and 2 to insure that during the installation of pollution control equipment the units meet the regulation requirements for particulate and opacity emissions in Georgia's Air Quality Control Regulations. The use of operating limitations to maintain compliance will be authorized as a means of compliance only during the installation period, which ends July 1, 1981 for Unit 2 and January 1, 1982 for Unit 1. During the installation period, the company must make quarterly operations reports to the Division, and must report any measured violation of the interim operating limitations.

Public notice, public hearing, and notice of the United States Environmental Protection Agency are or have been provided prior to issuance, as required by law. This Order will become a proposed revision to the State Implementation Plan and will be submitted to the United States Environmental Protection Agency in accordance with the requirements for an approvable plan under Section 110 of the Federal Clean Air Act.

FINDINGS

On June 17, 1977, and in subsequent communications, Robert H. Collom, Jr., Chief, Air Protection Branch, Georgia Environmental Protection Division, pursuant to authority delegated to him by the Director of the Environmental Protection Division (hereinafter, "EPD") notified Georgia Power Company (hereinafter, the "Company") that Units Number 1 and 2 at its Plant Bowen facility, Taylorsville, Georgia, were evidenced to be in violation of the Rules and Regulations for Air Quality Control of the State of Georgia. Specific violations evidenced were of Regulation 391-3-1-.02(2)(b) dealing with the control of smoke emissions and Regulation 391-3-1-.02(2)(d) dealing with particulate matter from fuel burning equipment.

After a thorough investigation and analysis of all relevant facts, the Director has determined that compliance in accordance with this Order is reasonable. The schedule (Appendix "A"), which prescribes dates by which designated compliance activities will be accomplished by the Company, requires compliance through control of load during installation of other control equipment. It also requires the Company to take reasonable and practicable interim measures to control emissions. Additionally, monitoring and reporting of emissions is appropriate and required by the Order.

ORDER

It is therefore considered, Ordered and consented as follows:

I
(SCHEDULE)

The attached Appendix "A" governing an air pollution abatement program is incorporated into and made an enforceable part of this Order for the control of particulate and visible emissions at the Company's Plant Bowen, Units 1 and 2 located in Taylorsville, Georgia. The Company shall comply with the timetable and schedule contained in Appendix "A" and the designated compliance activities shall be completed by the dates specified. The schedule establishes increments of progress designated to maintain compliance, and Appendix "A" provides for an operating level (load) limit to achieve compliance during the period of installation of other pollution control means.

II
(CHIEF DESIGNATED)

All submissions of source performance or compliance tests results, reports and other items required by this Order are to be made to Robert H. Collom, Jr., Chief, Air Protection Branch, Environmental Protection Division, 270 Washington Street, Atlanta, Georgia 30334 (hereinafter, the "Chief").

III
(PROGRESS REPORTS)

The Company shall submit, as part of the quarterly reports required by Paragraph VII hereof, commencing with the quarter ending December 31, 1978, a progress report for the Units 1 and 2 specified in Paragraph I. These reports will contain specific information on the progress toward milestone or increment of progress contained in Paragraph I or VI.

If any delay is anticipated in meeting said milestones, the Company shall immediately notify the Chief in writing of the anticipated delay and reasons therefore. Notification to EPD of any anticipated delay shall not excuse the delay.

These reports shall also contain specific information on the use of flue gas conditioning (if any) and modification to existing control equipment (if any). The Company shall submit, no later than five (5) days after the deadline for completion of each milestone required by Paragraph I or VI, certification to the Chief as to whether such milestone has been met.

IV
(EXCESSIVE EMISSIONS REPORTING)

If the Company shall operate in violation of any limits established under Paragraph V, then, during such occurrence, the Company shall take all reasonable steps to reduce the emissions in excess of the emission limitations established in Paragraph V. The Director of EPD shall have authority during such occurrences to require if necessary, the Company to take specific additional steps to reduce emissions.

Should the Company exceed any applicable limits required by Paragraph V (for whatever reason, and whether measured mechanically, visually, or otherwise) then, during the next normal business day following the start of such an occurrence which is likely to continue or has continued for more than 24 hours, the Permittee shall notify the Division by telephone or telegram describing the general nature of the occurrence; and within ten (10) days after the termination of any such occurrence, the Permittee shall submit to the Division a report including:

1. The general nature of the situation that results in Plant Bowen, Units 1 or 2 (or both) being in violation.
2. The time the excess began and ended.
3. A detailed description of the specific circumstances and conditions surrounding the occurrence of the excess, including, but not necessarily limited to, equipment operation data such as amperage, voltage and spark rate of emission control equipment, and other maintenance and operation data.
4. The action taken by the Company to lessen the degree and duration of the conditions which result in the excess.
5. Any other steps taken to minimize the extent or duration of the excess and its air quality impact.

6. A record of the hourly and six minute average of the opacity of emissions for the duration of the occurrence, and an estimate of the particulate emission rate during the period of excess.

7. An analysis of what steps will be taken to prevent or minimize similar occurrences in the future. The analysis should address such areas as better design, operating practices, and maintenance procedures.

Excess emissions of less than 24 hours shall be reported in the quarterly reports and should include the same items 1 through 7 above.

Reporting of any information to EPD hereunder does not excuse any violation.

V

(OPACITY LIMIT/OPERATING LEVEL (CORRELATED OPACITY) LIMITATIONS/PROOF OF EXCESS EMISSIONS)

A

At the present time there is no totally feasible means of continuously monitoring particulate matter mass emissions. However, it is technologically possible to monitor the opacity of emissions continuously and it is possible to obtain, through a correlation test, an approximation of mass emissions in relation to opacity. Therefore, the Company agrees that at all times (and under the conditions provided in Part B), it will operate Plant Bowen Units 1 and 2 such that the opacity of emissions from a Unit shall not exceed a correlated opacity limit determined and established as specified in this Paragraph for the respective Unit.

For the purpose of determining compliance with the applicable correlated opacity limit, and thus, compliance with Rule 391-3-1-.02(2)(d), a running hourly average of the previous ten (10) six (6) minute opacity values shall be used until a violation of the correlated hourly opacity limit occurs.

After a violation occurs, the maximum six (6) minute opacity value within the hour of the violation will be excluded from all subsequent hourly opacity calcuations which would normally include that value. Subsequent hourly opacities shall be based on the ten (10) most recent unexcluded six (6) minute opacity values. With each succeeding violation of the hourly correlated opacity limit, the next highest six (6) minute opacity value of the ten (10) six (6) minute opacity values used, shall also be excluded from subsequent hourly opacity calculations. This procedure shall be used until ten (10) consecutive six (6) minute opacity values are once again used to determine the hourly opacity.

An individual six (6) minute opacity value is determined by averaging twenty-four (24) measurements taken at fifteen (15) second intervals. A six (6) minute opacity value shall be computed for every consecutive (but mutually exclusive) six (6) minute interval.

The correlated opacity limit will be established based upon a series of particulate emissions stack tests (in accordance with Paragraph VI) with simultaneously recorded opacity monitor data (in accordance with Paragraph VII)(hereinafter, referred to as a "correlation test").

A correlation test for a Unit shall consist of a series of particulate matter emissions stack tests (correlated with simultaneously recorded opacity monitoring data) performed in a number, and under conditions, and according to procedures and methods (including 40 Code of Federal Regulations (CFR), Part 60 as now or hereafter amended) approved by the Chief. Correlation tests have been approved by the Chief and the Chief specifies and the Company agrees to initial correlated opacity limits as follows: 34 percent opacity for Unit 1 and 25 percent opacity for Unit 2.

The initial correlated opacity limit thus established may be confirmed or modified, by the Chief, based on subsequent tests correlating particulate emissions (measured by stack tests) and opacity monitoring data (i.e. a new correlation test). Any subsequent correlation test results shall be subject to approval by the Chief. A modified correlated opacity limit reflected by subsequent correlation tests may be established by the Chief and become applicable on the date it is specified by the Chief and shall continue unless modified by the Chief. Any such modification which would raise the correlated opacity limit above 34 percent for Unit 1 and 25 percent for Unit 2 must be approved by EPA pursuant to Section 110 of the Federal Clean Air Act prior to becoming effective.

Correlation tests shall be conducted, according to 40 CFR, Part 60, as now or hereafter amended as scheduled in Appendix "B". Additional correlation testing may be authorized by the Chief upon request by the Company. The Chief can require new correlation tests at any time he determines that the currently effective correlated opacity limit is invalid, or when Plant (or Unit) operations or fuel quality vary or change.

If flue gas conditioning is to be used on a Unit at any time, then a correlated opacity limit with the flue gas conditioning being used must also be established for that Unit. When flue gas conditioning is being used on a

Unit, this correlated opacity limit will apply. In the event the flue gas conditioning system malfunctions or is rendered inoperable or is not being operated for any reason, then the correlated opacity limit determined without flue gas conditioning will apply. While flue gas conditioning is being used, the conditioning or treatment technique can be altered, changed or adjusted only with the prior approval of the Chief. Otherwise the conditioning must be that which was used in determining the correlated opacity limit.

Unless otherwise provided herein, whenever new tests are authorized or required by the Chief, or by this Order, tests must be performed within a reasonable time, and 30 days shall be considered a reasonable time.

Compliance with an applicable correlated opacity limit will be construed as compliance with Regulation 391-3-1-.02(2)(d) under the conditions of this Order and until the dates specified in Appendix "A", Paragraphs 8 (for Unit 2) and 11 (for Unit 1). Provided, however, that a mass emission rate test (i.e. stack test) conducted in accordance with 40 CFR Part 60 as now or hereafter amended, may be required at any time by the Director, and, if so required, the results of such testing may be used to prove a violation of Regulation 391-3-1-.02(2)(d) notwithstanding any other provision of this Order.

B

1. The opacity limits set forth in this Order shall apply at all times except that, excessive emissions resulting from startup, shutdown, or malfunction shall not constitute representative conditions for the purpose of a correlation test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction which occur though ordinary diligence is employed be considered a violation of the applicable emission limit, provided, however that during any such startup, shutdown, or malfunction excess (I) the best maintenance and operational practices to minimize emissions are adhered to at all times and (II) all associated air pollution control equipment is maintained and operated at all times in a manner consistent with good air pollution control practice for minimizing emissions, and (III) the duration of excess emissions is minimized.

Further, excessive emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited and are violations of the applicable emission limits of this Order.

"Startup" means the commencement of operation of a Unit. Startup ceases at the time required to be reported pursuant to (3)(ii) hereof or when generation output reaches 300 MW, whichever occurs first.

Shutdown" means the cessation of the operation of a Unit for any purpose. Shutdown begins at the onset of unstable firing conditions which, for these Units, occurs at the time required to be reported pursuant to (4)(i) hereof, and requires continous load reduction thereafter to 0 MW output within three hours. However, during shutdown, the electrostatic precipitators must remain energized until the time required to be reported pursuant to (4)(ii) hereof.

"Malfunction" means mechanical and/or electrical failure of a process, or of air pollution control process, or equipment, resulting in operation in an abnormal or unusual manner.

Determination of whether acceptable operating and maintenance procedures are being used will be based on information which shall be made available to the Director, hereunder or as otherwise provided in this Order, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

2. In all cases not coming within the limited scope of B(1) above, any emission or opacity in excess of the applicable correlated opacity limit established by Paragraph V of this Order (whether measured by continuous opacity monitor or as visually determined) is evidence of noncompliance with or violation of Regulation 391-3-1-.02(2)(d), this Order, and the Act, and such evidence, in and of itself, is sufficient to support a finding of such noncompliance or violation in any proceeding or action, even if rebuttal or mitigating evidence is presented.

3. With regard to any period of "startup," the Company shall record and submit as part of the report required under Paragraph VII as part of the quarterly report (or under Paragraph IV, for any periods of excess emissions) the following: (i) the beginning time of the first oil or gas fire in the boiler, and (ii) the time at which the exiting gas temperature

from the air preheaters reached 266°F or the time at which the electrostatic precipitators are energized (whichever event occurs first), and (iii) intermediate temperature measurements taken at approximately 30 minute intervals between the time of beginning the first oil or gas fire in the boiler and the time of emergizing the electrostatic precipitators.

4. With regard to any period of "shutdown" the Company shall record and submit under Paragraph VII as part of the quarterly report (or under Paragraph IV, for any periods of excess emissions) the following: (i) the time at which the electrical output drops below 300 MW or the time at which coal firing is being maintained with not more than three pulverizer mills (whichever event occurs first), and (ii) the time at which the exiting gas temperature from the air preheaters reaches 266°F, and (iii) the time the combustion air fan prime movers are disengaged to remove the fans from service.

VI
(PARTICULATE EMISSIONS STACK TESTS/CORRELATION TESTS)

That the attached Appendix "B" governing particulate emissions stack testing and correlation testing is incorporated into and made an enforceable part of this Order for the control of particulate emissions at the Company's Plant Bowen, Units 1 and 2 located in Taylorsville, Georgia. The Company shall comply with the timetable and schedule contained in Appendix "B" and the designated compliance activities shall be completed by the dates specified.

Particulate emissions stack testing shall be performed and conducted using methods and procedures (including 40 Code of Federal Regulations (CFR), Part 60, as now or hereafter amended) which have been approved, in advance, by the Chief. The Company shall provide the Chief ten (10) days verbal notice (with written confirmation) of the expected dates for the conducting of any such testing to afford an opportunity to have an observer present.

VII
(MONITORING/QUARTERLY REPORTS/WEEKLY REPORTS/SAMPLES)

1. The Company shall maintain and operate an in-stack continuous monitoring system (in each stack liner) for measuring and recording the opacity (to be used also as a correlated opacity reading or measurement) of the emissions from Plant Bowen, Units 1 and 2. The maintenance and operation of the continuous monitoring system shall be conducted by the Company

following procedures and requirements which have been approved by the Chief and in compliance with 40 CFR, Part 60, as now or hereafter amended.

Continuous monitoring system data (opacity monitor Charts or equivalent) shall be retained by the Company for two (2) years, and shall be submitted to the Chief upon request. The opacity monitor records representing the opacities measured during any period of stack testing conducted in association with correlation testing shall be submitted to the Chief concurrent with submittal of the results of the correlation tests.

An individual six (6) minute opacity value is determined by averaging twenty-four (24) measurements taken at fifteen (15) second intervals. A six (6) minute opacity value shall be computed for every consecutive (but mutually exclusive) six (6) minute interval.

MODIFY

For purposes of determining compliance with the applicable correlated opacity limit [and thus, compliance with 391-3-1-.02(2)(d)] an hourly period opacity shall be used. An hourly period opacity (which shall be used to determine compliance with the applicable correlated opacity limit) shall be determined every six (6) minutes by averaging the last ten (10) unexcluded six (6) minute opacity values.

Each

During periods when the continuous monitoring system is inoperative for more than one (1) hour, a visual determination of the opacity shall be made by the Company and recorded once per hour (and at 60 minute intervals) during daylight hours. The Company shall notify the Chief of the occurrence of any monitor malfunction if such malfunction renders the monitoring system inoperative for more than 48 hours. Notification will be by phone during normal working hours as soon as possible after the end of the 48 hour period. The Company will inform the Chief as to the estimated time when the monitoring system will be back in service (see Paragraph IV for reports of opacity violation). Any such visual determination shall be performed by an observer certified by either EPA or EPD and in accordance with 40 CFR Part 60, Appendix A, Reference Method 9. The records of any such visual determinations shall be retained by the Company for two (2) years, and shall be submitted to the Chief upon request. Each visual determination of opacity (6 minute average) made pursuant to this subparagraph may be used to demonstrate compliance or prove violations of the correlated opacity limit [Regulation 391-3-1-.02(2)(d)].

Each calendar quarter, the Company shall submit to the Chief: (1) A report that indicates the date(s) and time(s) during which the continuous monitoring system was inoperative (excepting zero and span checks) in the preceding quarter which includes the nature of the repairs or adjustments undertaken by the Company during such period(s), and (2) a report of the excessive emissions during the quarter as specified in Paragraph IV.

The quarterly reports specified in this Paragraph shall be submitted by the 21st day of the month following the end of each quarter. The first quarter ends December 31, 1980.

2. The Company shall submit to the Chief each month, by the 15th of the following month the weekly averages of the following characteristics of the coal burned in Units 1 and 2:

(a) Higher heating value;

(b) Sulfur concentration, [for the purpose of monitoring compliance with Regulation 391-3-1-.02(2)(g)] reported as percent by weight;

(c) Ash concentration, reported as percent by weight;

(d) Moisture concentration, reported as percent by weight.

Said weekly averages shall be determined by computing the averages of the characteristics of weekly composite coal samples. The test coal samples shall be collected, prepared, and analyzed in accordance with procedures which have been approved by the Chief.

3. The Company shall submit to the Chief semi-annually on dates specified by the Chief, a split sample of the coal burned in Units 1 and 2. Said split sample shall be collected and prepared in accordance with procedures which have been approved by the Chief.

Reporting of any information to EPD hereunder does not excuse any violation.

VIII
(ENFORCEMENT)

Violation of any requirement (including any opacity limit or correlated opacity limit) of this Order shall result in enforcement of such requirement pursuant to the Act.

IX
(EFFECTIVE DATE/TERMINATION)

This Order will have full force and effect upon execution. The Company's consent is attached hereto and incorporated herein. This Order shall terminate on July 1, 1981 with respect to Unit 2, and on January 1,

1982 with respect to Unit 1. Upon termination with respect to a Unit, that Unit is subject to all the applicable requirements of Georgia Air Quality Control Rules and Regulations in Chapter 391-3-1.

X
(EFFECT OF ORDER)

This Order shall not, in any event, affect the Director's emergency powers under Section 15 of the Act, nor is the Company relieved from complying with any requirements (under, or pursuant to the Act) not addressed in this Order.

Permits issued to facilities covered by this Order shall remain in effect but, the terms of this Order shall control, in case and to the extent of conflict, during the period when this Order is in effect.

11/17/80
Date

J. Leonard Ledbetter
J. Leonard Ledbetter, Director
Environmental Protection Division
Department of Natural Resources
State of Georgia

APPENDIX "A"
STATE OF GEORGIA

ORDER*

Georgia Power Company shall complete the following acts with respect to control of particulate and smoke emissions from its Units Number 1 and 2 at its Plant Bowen, Taylorsville, Georgia on or before the dates specified: [Note: Two control techniques are contemplated. Each Unit's operating level (load) is to be currently reduced to achieve compliance. The Company will have installed and will use other means for compliance after July 1, 1981 (Unit 2) and January 1, 1982 (Unit 1)].

Designated Compliance Activity/ Milestone/Increment of Progress	Date to be Completed
1. Execute and enter into a binding contract or purchase order for air pollution control equipment to be used as other control means. Contract must require shipment being made by date specified in 5.	July 15, 1978 Completed
2. Submission of Application for Permit to Construct (for other control means) to EPD. Prepare for reduced operating level to achieve compliance.	August 15, 1978 Completed
3. Reduce operating level of Units to comply with rules and regulations for Air Quality Control, 391-3-1. Operate in compliance with opacity limits specified in Paragraph V of this Order.	October 1, 1978, and at all times subsequent
4. Begin relocation of existing structures as part of installation of other control means.	December 1, 1978 Completed
5. Begin on site construction of air pollution control equipment for use as other control means.	July 15, 1979 Completed
6. Complete construction and tie in of Unit No. 2 control equipment.	May 1, 1981
7. Complete operational adjustment and particulate emission compliance/performance tests with control equipment on Unit 2. Results of particulate emission tests are to be submitted to Georgia EPD within thirty (30) days of the completion of such testing. Testing methods, procedures, and operating conditions shall be approved by EPD. Tests shall be conducted at maximum expected operating capacity [no operational (load) limit].	June 1, 1981
8. Use of control equipment on Unit 2 to achieve compliance with all applicable Georgia Rules and Regulations for Air Quality Control, 391-3-1, as demonstrated by valid particulate emission compliance/ performance tests.	July 1, 1981 and at all times subsequent

9.	Complete construction and tie in of Unit 1 control equipment.	November 1, 1981
10.	Complete operational adjustment and particulate emission compliance/ performance tests with control equipment on Unit 1. Results of particulate emission tests to be submitted to Georgia EPD within thirty (30) days of the completion of such testing. Testing methods, procedures and operating conditions shall be approved by EPD. Tests shall be conducted at maximum expected operating capacity [no operational (load) limit].	December 1, 1981
11.	Use of control equipment on Unit 1 to achieve compliance with applicable Georgia Rules and Regulations for Air Quality Control, 391-3-1, as demonstrated by valid particulate emission compliance/performance tests.	January 1, 1982, and at all times subsequent

* This Appendix is attached to and made an enforceable part of an Order issued to Georgia Power Company on , pursuant to the Georgia Air Quality Act of 1978.

APPENDIX "B"
STATE OF GEORGIA

ORDER*

Georgia Power Company shall complete the following Acts with respect to particulate emissions stack testing, correlation testing and computation of correlated opacity limits for Units Number 1 and 2 of its Plant Bowen, Taylorsville, Georgia faility on or before the dates specified:

Reports (including any and all test results and data necessary for establishing a correlated opacity limit) of all correlation tests shall be submitted within thirty (30) days of test completion in any case not provided for in this Appendix.

Designated Compliance Activity/ Milestone/Increment of Progress	Date to be Completed
1. Complete and report results of stack tests and computation of correlated opacity limit (all in accordance with approved methods and procedures) for Unit 1 to the Chief.	Completed
2. Complete and report results of stack tests, correlation tests and computation of correlated opacity limit (all in accordance with approved methods and procedures) for Unit 2 to the Chief.	Completed
3. Completion of Evaluation of Flue Gas Conditioning Program on both Units 1 and 2 (including performing approved stack and correlation tests and correlated opacity limit computation on each Unit) with flue gas conditioning in operation and submit report of tests to Chief.	Completed
4. Completion of new correlation tests and computation of correlated opacity limit for Unit 1 and Unit 2.	Six (6) months after the completion of the last correlation test of the respective unit (this is a routine interval test). Testing should begin so that completion occurs as nearly as possible at six (6) months interval tests; and within a reasonable time if test is otherwise authorized or required by the Chief.

* This Appendix is attached to and made an enforceable part of an Order issued to Georgia Power Company on pursuant to the Georgia Air Quality Act of 1978.

APPENDIX "C"
STATE OF GEORGIA

ORDER*

Georgia Power Company has reviewed this Order, believes it to be a means to maintain compliance with the applicable emission limiting regulations as contained in the Rules and Regulations for Air Quality Control, and consents to all of the requirements and terms of this Order.

Georgia Power Company hereby represents that it has full corporate authority and the necessary corporate approval to enter into and perform i accordance with the terms and provisions of this Order. The signatory below represents that he has the requisite corporate authority to execute this Consent on behalf of George Power Company.

11-5-80
Date

George T. Head Vice President
GEORGIA POWER COMPANY

C.K. Weaver Jr. - Secretary

* This Consent is hereby attached to and incorporated by reference into an Order issued to the Georgia Power Company on pursuant to the Georgia Air Quality Act of 1978.

5/22/80

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

May 13, 1980

#AP 80-2

Ms. Rebecca Hamner
Regional Administrator
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30308

Dear Ms. Hamner:

Enclosed are five copies of a "special" Permit to Operate, No. 4911-117-6716-0, issued to Georgia Power's Plant Harllee Branch, Units 3 and 4. I am submitting this permit to you to be incorporated into our SIP.

A hearing concerning this permit was held on January 31, 1980.

Sincerely,

J. Leonard Ledbetter

J. Leonard Ledbetter
Director

JLL:mlr

Enclosures

FR due by 7/14/80
WRC

Placed copies in interoffice mail to: Reg'l Coun., Air Enf., Enf., Legal, Air Faci on 5/22/80; requested comments by 6/9/80.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO. 4911-117-6716-0

COUNTY Putnam

EFFECTIVE DATE OF PERMIT: APR 2 3 1980

PERMIT TO OPERATE

In compliance with the provisions of Georgia's Air Quality Act of 1978 and the Rules and Regulations, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Georgia Power Company, 270 Peachtree Street, P. O. Box 4545 Atlanta, Georgia 30302
is issued a Permit to Operate the following:

Fossil fuel fired, steam-electric generating plant, Source 2 (Units 3 and 4)

located at: Plant Branch, Milledgeville, Putnam County, Georgia (Source 2, Units 3 and 4)

This Permit to Operate is conditioned upon compliance with all provisions of Georgia's Air Quality Act of 1978, the Rules and Regulations of Chapter 391-3-1 adopted or in effect under that act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the application(s) dated November 9, 1973 , supporting data entered therein or attached thereto, or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 12 page(s), which page(s) are a part of this Permit.

J. Leonard Ledbetter
Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

1. The Permittee shall conduct a particulate emissions compliance test each calendar quarter for the purpose of proving compliance with Rule 391-3-1-.02(2)(d). The test must be performed during the first month of the quarter and the results therefrom must be submitted to the Division before the end of the second month of the quarter. In the event testing is interrupted by equipment failure which prohibits operation of either unit at maximum expected capacity, the Division must be notified and advised of the extent of the problem and anticipated date when full operation of both units is expected. At the Division's discretion, testing of one unit by itself or testing at reduced operating rates may be required.

   Such tests and the analysis thereof shall be performed and conducted using methods and procedures which have been previously approved by the Division. For the purpose of determining the allowable emission rate, the BTU heat input shall be the cumulative sum of the heat inputs to Units 3 and 4.

2. A. Permittee shall install, calibrate, maintain and operate an in-stack continuous monitoring system for measuring and recording the opacity of the source's emissions. The installation, calibration, maintenance and operation of said continuous monitoring system and the reporting of data shall be conducted following procedures and requirements which have been approved by the Division.

   B. Continuous monitoring system emission data (opacity monitor charts or equivalent) shall be retained by the Permittee for two (2) years, and shall be submitted to the Division upon request. The opacity monitor charts representing the opacities measured during the period of the stack testing required pursuant to Condition 1 shall be submitted to the Division concurrent with the submittal of the results under said Condition 1.

   C. An opacity index value shall be established by the Division, corresponding to a particulate matter emission rate which approaches a violation of Section 391-3-1-.02(2)(d) of the Division's Rules and Regulations for Air Quality Control. Each calendar quarter, the Permittee shall submit to the Division a report indicating all instances during the previous quarter in which the opacity index value was exceeded for more than four (4) consecutive hours. The quarterly report shall be in a format approved by the Division.

D. During periods that the continuous monitoring system becomes inoperative for more than twenty-four (24) hours, a visual determination of the plume opacity shall be made and recorded at least twice daily by the Permittee. Any such visual determination shall be performed using methods and procedures which have been approved by the Division. The records of any such visual determinations shall be retained by the Permittee for two (2) years, and shall be submitted to the Division upon request. Each calendar quarter, the Permittee shall submit to the Division a report indicating all instances during the previous quarter in which the opacity index value was exceeded during a visual determination. The report shall also include the nature and cause of the excess emission in all instances where the visual determination exceeds that which is allowed by Regulation 391-3-1-.02(2)(b) Visible Emissions. The quarterly report shall be in a format approved by the Division.

E. Each calendar quarter, the Permittee shall submit to the Division a report that indicates the date(s) and the time(s) during which the continuous monitoring system was inoperative (excepting zero and span checks) in the preceding quarter. Such report shall include the nature of the repairs or adjustments undertaken by the Permittee during such period(s).

3. Permittee shall submit to the Division each calendar quarter the monthly averages of the following characteristics of the coal burned in Units 3 and 4.

A. Higher heating value.

B. Sulfur concentration, reported as percent by weight.

C. Ash concentration, reported as percent by weight.

D. Moisture concentration, reported as percent by weight.

Said monthly averages shall be determined by computing the averages of the characteristics of weekly composite coal samples. The tested coal samples shall be collected, prepared, and analyzed in accordance with procedures which have been approved by the Division.

4. Permittee shall submit to the Division semi-annually, on dates specified by the Division, a split sample of the coal burned in Units 3 and 4. Said split sample shall be collected and prepared in accordance with procedures which have been approved by the Division.

5. Each calendar quarter, the Permittee shall submit to the Division a report that indicates the date(s) and time(s) during which unit startup conditions resulted in excessive emissionsin the preceding quarter. For the purposes of this condition only, unit startup shall be defined as the period lasting from the time the forced or induced draft fans are energized until the time that mill/burner performance and secondary air temperature are adequate to sustain a stable fire, burning coal as the only fuel, and to maintain an exiting gas temperature above the sulfuric acid dew point. For the purposes of this condition, excess emissions shall be defined as visible emissions which exceed that which is allowed by Regulation 391-3-1-.02(2) (b) Visible Emissions.

6. A. In the event flue gas conditioning is utilized during a particulate emissions test for the purpose of demonstrating compliance with Rule 391-3-1-.02(2)(d), the Permittee, with the approval of the Division, shall establish an opacity index value, based on correlation tests performed without the use of flue gas conditioning agents, corresponding to a particulate matter emission rate which approaches a violation of Rule 391-3-1-.02(2)(d). The Permittee may operate at all times, without the use of flue gas conditioning agents, below this established opacity index value. Once the hourly average opacity reaches the established opacity index value, the Permittee shall begin injection of the flue gas conditioning agents of the same type and at the same injection rate(s) and location(s) as were used during the particulate matter emission test performed to demonstrate compliance with Rule 391-3-1-.02(2)(d). The corresponding megawatt loading shall be maintained at or below the level where the opacity index value approached the allowable limit until there is demonstrated a decrease in the opacity, at which time the load may be increased to the maximum operating capacity of the source. Changes in the type(s) of flue gas conditioning agents, rate(s) or location(s) used during injection shall be allowed only when approved by the Division.

B. In addition, the Permittee shall maintain records, according to procedures approved by the Division, of the conditioning agent(s) and rate(s). Permittee shall maintain these records for a period of two (2) years.

C. Each calendar quarter, Permittee shall submit to the Division a report indicating the date(s) and the time(s) during which the flue gas conditioning system malfunctioned during the preceding quarter and the reason(s) for such.

7. Conditions 8 through 11 of this Permit are not applicable initially.

In the event that a quarterly compliance test shows that the emissions of particulate matter from Units 3 and 4 are in excess of the amount allowed by Rule 391-3-1-.02(2)(d), and upon notice from the Division, Conditions 8 through 11 of this Permit will become immediately applicable replacing the requirements of Conditions 1 through 6. Compliance with Conditions 8 through 11 will be accepted as an interim means of demonstrating compliance with Rule 391-3-1-.02(2)(d) as long as necessary but not beyond December 31, 1982.

If, while operating under Conditions 8 through 11 of this Permit, a particulate matter emissions test is performed by the Permittee and accepted by the Division as demonstrating compliance with Rule 391-3-1-.02(2)(d), upon notice from the Division, Conditions 1 through 6 of this Permit will again become applicable, replacing the requirements of Conditions 8 through 11.

8. A. At the present time there is no totally feasible means of continuously monitoring particulate matter mass emissions. However, it is technologically possible to monitor the opacity of emissions continuously and it is possible to obtain, through a correlation test, an approximation of mass emissions in relation to opacity. Therefore, the Permittee is required to (under the conditions provided in 8. (B)), operate Plant Branch Units 3 and 4 at all times such that the opacity of emissions from the common stack liner shall not exceed a correlated opacity (an hourly opacity, as in Condition 11, and as determined by correlation test as provided in this Condition) which corresponds to the mass emission rate which complies with Rule 391-3-1-.02(2)(d). The correlated opacity limit will be established based upon a series of particulate emissions stack tests (in accordance with Condition 10) with simultaneously recorded opacity monitor data (in accordance with Condition 11) (hereinafter, referred to as a "correlation test").

A correlation test shall consist of a series of particulate matter emissions stack tests (correlated with simultaneously recorded opacity monitoring data) performed in a number, and under conditions, and according to procedures and methods (including 40 Code of Federal Regulations (CFR), Part 60 as now or hereafter amended) approved by the Division. Initial correlation tests have been approved by the Division and the Division specified and the Permittee agrees to an initial correlated opacity limit of 40% for the common liner. The initial correlated opacity limit

thus established may be confirmed or modified, by the Division, based on subsequent tests correlating particulate emissions (measured by stack tests) and opacity monitoring data (i.e. a new correlation test). Any subsequent correlation test results shall be subject to approval by the Division. A modified correlated opacity limit reflected by subsequent correlation tests may be established by the Division and become applicable on the date it is specified by the Division and shall continue unless modified by the Division. Any such modification which would raise the initial correlated opacity limit stated herein must be approved by EPA pursuant to S 110 of the Federal Clean Air Act prior to becoming effective.

Correlation tests shall be conducted, according to 40 CFR, Part 60, as now or hereafter amended, as required by Condition 10. Additional correlation testing may be authorized by the Division upon request by the Permittee. The Division can require new correlation tests at any time it determines that the currently effective correlated opacity limit is invalid, or when plant (or unit) operations or fuel quality vary or change.

If flue gas conditioning is to be used on a unit at any time, then a correlated opacity limit with the flue gas conditioning being used must also be established for that unit. When flue gas conditioning is being used on a unit this correlated opacity limit will apply. While flue gas conditioning is being used, the treatment plan can be altered, changed or adjusted only with the prior approval of the Division. Otherwise, the conditioning must be that which was used in determining the correlated opacity limit.

Unless otherwise provided herein, whenever new tests are authorized or required by the Division, or by this Permit, tests must be performed within a reasonable time, and thirty (30) days shall be considered a reasonable time.

Compliance with an applicable correlated opacity limit will be construed as compliance with Rule 391-3-1-.02(2)(d) under the conditions of this Permit as long as this condition remains in affect.

thus established may be confirmed or modified, by the Division, based on subsequent tests correlating particulate emissions (measured by stack tests) and opacity monitoring data (i.e. a new correlation test). Any subsequent correlation test results shall be subject to approval by the Division. A modified correlated opacity limit reflected by subsequent correlation tests may be established by the Division and become applicable on the date it is specified by the Division and shall continue unless modified by the Division. Any such modification which would raise the initial correlated opacity limit stated herein must be approved by EPA pursuant to S 110 of the Federal Clean Air Act prior to becoming effective.

Correlation tests shall be conducted, according to 40 CFR, Part 60, as now or hereafter amended, as required by Condition 10. Additional correlation testing may be authorized by the Division upon request by the Permittee. The Division can require new correlation tests at any time it determines that the currently effective correlated opacity limit is invalid, or when plant (or unit) operations or fuel quality vary or change.

If flue gas conditioning is to be used on a unit at any time, then a correlated opacity limit with the flue gas conditioning being used must also be established for that unit. When flue gas conditioning is being used on a unit this correlated opacity limit will apply. While flue gas conditioning is being used, the treatment plan can be altered, changed or adjusted only with the prior approval of the Division. Otherwise, the conditioning must be that which was used in determining the correlated opacity limit.

Unless otherwise provided herein, whenever new tests are authorized or required by the Division, or by this Permit, tests must be performed within a reasonable time, and thirty (30) days shall be considered a reasonable time.

Compliance with an applicable correlated opacity limit will be construed as compliance with Rule 391-3-1-.02(2)(d) under the conditions of this Permit as long as this condition remains in affect.

B. (1) The opacity limits set forth in this Condition shall apply at all times except that, excessive emissions resulting from startup, shutdown, or malfunction shall not constitute representative conditions for the purpose of a correlation test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction which occur though ordinary diligence is employed be considered a violation of the applicable emission limit, provided, however that during any such startup, shutdown, or malfunction excess (I) the best maintenance and operational practices to minimize emissions are adhered to at all times and (II) all associated air pollution control equipment is maintained and operated at all times in a manner consistent with good air pollution control practice for minimizing emissions, and (III) the duration of excess emissions is minimized.

Further, excessive emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited and are violations of the applicable emission limits of this Permit.

Further, excessive emissions which are caused entirely by particulate matter emitted from a unit which is out of service and not being fired are not violations of the applicable emission limits of this Permit. Performance of maintenance activity such as: the activation of fans, opening precipitator hopper doors, and working inside a precipitator, while a unit is out of service, can cause high opacity readings while contributing relatively small amounts of actual particulate emissions. If this is the entire cause of an excess emission from the common stack liner (even though the other unit might be in full operation), the excess emission will not be a violation of this Permit condition. To demonstrate that such reasons are the entire cause, the Company shall record and submit as part of the reports required under Condition 9, the following: (i) a description of the maintenance activity or other action with regard to the unit that was out of service, and (ii) the opacity of emissions from the common stack liner, and (iii) the trend of opacity from the individual units as recorded by ductwork opacity monitors installed in the ducts from the individual units.

"Startup" means the commencement of operation of a unit. Startup ceases at the time required to be reported pursuant to 8. B. (3)(ii) hereof or when a unit's generation output reaches 200 MW, whichever occurs first.

"Shutdown" means the cessation of the operation of a unit for any purpose. Shutdown begins at the onset of unstable unit firing conditions which, for these units, occurs at the time required to be reported pursuant to 8.B.(4)(i) hereof, and requires continuous load reduction thereafter to 0 MW output from the unit within 3 hours. However, during shutdown, the electrostatic precipitators must remain energized until the time required to be reported pursuant to 8.B.(4)(ii) hereof.

"Malfunction" means mechanical and/or electrical failure of a process, or of air pollution control process, or equipment, resulting in operation in an abnormal or unusual manner.

Determination of whether acceptable operating and maintenance procedures are being used will be based on information which shall be made available to the Director, hereunder or as otherwise provided in this Permit, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

B. (2) In all cases not coming within the limited scope of B.(1) above, any emission or opacity in excess of the applicable correlated opacity limit established by this condition of this Permit (whether measured by continuous opacity monitor or as visually determined) is evidence of noncompliance with or violation of Rule 391-3-1-.02 (2)(d), this Permit, and the Act, and such evidence, in and of itself, is sufficient to so support a finding of such noncompliance or violation in any proceeding or action, even if rebuttal or mitigating evidence is presented.

B. (3) With regard to any period of "startup" the Permittee shall record and submit as part of the report required under Condition 11 as part of the quarterly report (or under Condition 9, for any periods of excess emissions) the following: (i) the beginning time of the first oil or gas fire, and (ii) the time at which the exiting gas temperature from the air preheaters reached 272^{o}F or the time at which the electrostatic precipitators are energized (whichever event occurs first), and (iii) intermediate temperature measurements taken at approximately 30 minute intervals between the time of beginning the first oil or gas fire and the time of energizing the electrostatic precipitators.

B. (4) With regard to any period of "shutdown" the Permittee shall record and submit under Condition 11 as part of the quarterly report (or under Condition 9, for any periods of excess emissions) the following: (i) the beginning time of fuel oil injection into a boiler to help stabilize the fire as pulverizers are being removed from service, and (ii) the time at which the exiting gas temperature from the air preheaters reaches 272°F, and (iii) the time the combustion air fan prime movers are disengaged to remove the fans from service.

B. (5) Compliance with the correlated opacity (or correlated opacity limit) for determining compliance with Rule 391-3-1-.02(2)(d) shall be determined, measured, monitored and reported as required by Condition 11.

9. If the Permittee shall operate in violation of any limits established under Condition 8, then, during such occurrence, the Permittee shall take all reasonable steps to reduce the emissions in excess of the emission limitation established in Condition 8. The Director of EPD shall have authority during such occurrences to require if necessary, the Permittee to take specific additional steps to reduce emissions.

Should the Permittee exceed any applicable limits of Condition 8 (for whatever reason, and whether measured mechanically, visually, or otherwise) then, during the next normal business day following the start of such an occurrence which is likely to continue or has continued for more than 24 hours, the Permittee shall notify the Division by telephone or telegram describing the general nature of the occurrence; and within ten (10) days after the termination of any such occurrence, the Permittee shall submit to the Division a report including -

A. The general nature of the situation that resulted in Plant Branch's emissions from the stack liner common to Units 3 and 4 being in violation.

B. The time the excess began and ended.

C. A detailed description of the specific circumstances and conditions surrounding the occurrence of the excess, including, but not necessarily limited to, equipment operation data such as amperage, voltage and spark rate of emission control equipment, and other maintenance and operation data.

D. The action taken by the Permittee to lessen the degree and duration of the conditions which resulted in the excess.

E. Any other steps taken to minimize the extent or duration of the excess and its air quality impact.

F. A record of the hourly average of the opacity of emissions for the duration of the occurrence, and an estimate of the particulate emission rate during the period of excess.

G. An analysis of what steps will be taken to prevent or minimize similar occurrences in the future. The analysis should address such areas as design modifications, operating practices, or maintenance procedures.

Reporting of any information to EPD hereunder does not excuse any violation.

10. The Permittee shall conduct a correlation test every six months. Testing should begin so that completion occurs as nearly as possible at six (6) month intervals and within a reasonable time if test is otherwise authorized or required by the Division. Reports (including any and all test results and data necessary for establishing a correlated opacity limit) of all correlation tests shall be submitted within thirty (30) days of test completion.

Particulate emissions testing shall be performed and conducted using methods and procedures (including 40 Code of Federal Regulations (CFR), Part 60 as now or hereafter amended) which have been approved, in advance, by the Division. The Permittee shall provide the Division ten (10) days verbal notice (with written confirmation) of the expected dates for the conducting of any such testing to afford an opportunity to have an observer present.

11. A. The Permittee shall maintain and operate an in-stack continuous monitoring system (in the stack liner common to Units 3 and 4) for measuring and recording the opacity (to be used also as a correlated opacity reading or measurement) of the emissions from Plant Branch, Units 3 and 4. The maintenance and operation of the continuous monitoring system shall be conducted by the Permittee following procedures and requirements which have been approved by the Division and in compliance with 40 CFR Part 60, as now or hereafter amended.

Continuous monitoring system data (opacity monitor Charts or equivalent) shall be retained by the Permittee for two (2) years, and shall be submitted to the Division upon request. The opacity monitor records representing the opacities measured during any period of stack testing conducted in association with correlation testing shall be submitted to the Division concurrent with submittal of the results of the correlation tests.

An individual six (6) minute opacity value is determined by averaging twenty-four (24) measurements taken at fifteen (15) second intervals. A six (6) minute opacity value shall be computed for every consecutive (but mutually exclusive) six (6) minute interval.

For the purpose of determining compliance with the applicable correlated opacity limit, and thus, compliance with Rule 391-3-1-.02(2)(d), a running hourly average of the previous ten (10) six (6) minute opacity values shall be used until a violation of the correlated hourly opacity limit occurs.

After a violation occurs, the maximum six (6) minute opacity value within the hour of the violation will be excluded from all subsequent hourly opacity calculations which would normally include that value. Subsequent hourly opacities shall be based on the ten (10) most recent unexcluded six (6) minute opacity values. With each succeeding violation of the hourly correlated opacity limit, the next highest six (6) minute opacity value of the ten (10) six (6) minute opacity values used, shall also be excluded from subsequent hourly opacity calculations. This procedure shall be used until ten (10) consecutive six (6) minute opacity values are once again used to determine the hourly opacity.

During periods when the continuous monitoring system is inoperative for more than one (1) hour, a visual determination of the opacity shall be made by the Permittee and recorded once per hour (and at 60 minute intervals) during daylight hours. The Permittee shall notify the Division of the occurrence of any monitor malfunction if such malfunction renders the monitoring system inoperative for more than forty-eight (48) hours. Notification will be by phone during normal working hours as soon as possible after the end of the forty-eight (48) hour period. The Permittee will inform the Division as to the estimated time when the monitoring system will be back in service (see Condition 9 for reports of opacity violation). Any such visual determination shall be performed by an observer certified by either EPA or EPD and in accordance with 40 CFR

Part 60, Appendix A, Reference Method 9. The records of any such visual determinations shall be retained by the Permittee for two (2) years, and shall be submitted to the Division upon request. Each visual determination of opacity (6 minute average) made pursuant to this requirement may be used to demonstrate compliance or prove violations of the correlated opacity limit (Rule 391-3-1-.02(2)(d)).

Each calendar quarter, the Permittee shall submit to the Division a report that indicates the date(s) and time(s) during which the continuous monitor system was inoperative (excepting zero and span checks) in the preceding quarter. Such report shall include the nature of the repairs or adjustments undertaken by the Permittee during such period(s).

The Permittee shall maintain and operate continuous monitoring systems in the ductwork from each unit (ductwork opacity monitors) for recording the trend in opacity of emissions from Plant Branch, Units 3 and 4 individually. The maintenance and operation of the continuous monitoring systems shall be conducted by the Permittee following procedures and requirements which have been approved by the Division.

Ductwork monitoring system data (opacity monitor Charts or equivalent) shall be retained by the Permittee for two (2) years, and shall be submitted to the Division upon request. The ductwork opacity monitor records representing the trend in opacity of emissions measured during any period of excess emissions claimed to be caused entirely by particulate matter emitted from a unit which is out of service and not being fired shall be submitted to the Division as specified in Condition 8.B.(1).

The quarterly report specified in this Condition shall be submitted by the 21st day of the month following the end of each quarter. The first quarter ends September 30, 1980

B. The Permittee shall submit to the Division, by the 15th day of each month, the weekly averages of the following characteristics of the coal burned in Units 3 and 4 during the proceeding month:

(1) Higher heating value.

(2) Sulfur concentration, (for the purpose of monitoring compliance with Rule 391-3-1-.02(2)(g)) reported as percent by weight.

(3) Ash concentration, reported as percent by weight.

(4) Moisture concentration, reported as percent by weight.

Said weekly averages shall be determined by computing the averages of the characteristics of weekly composite coal samples. The tested coal samples shall be collected, prepared, and analyzed in accordance with

procedures which have been approved by the Division.

C. The Permittee shall submit to the Division semi-annually on dates specified by the Division, a split sample of the coal burned in Units 3 and 4. Said split sample shall be collected and prepared in accordance with procedures which have been approved by the Division.

Reporting of any information to EPD hereunder does not excuse any violation.

12. The Permittee shall install additional air pollution control equipment as described in their application for Permit To Construct dated July 5, 1979. Work shall progress so that construction and tie in of such equipment is completed by October 1, 1982; operational adjustment and particulate emissions performence testing of Units 3 and 4 at maximum expected operating capacity shall be completed by November 1, 1982; and the report of such test shall be submitted to the Division by December 1, 1982.

The Permittee shall submit quarterly progress reports containing specific information on the installation of such equipment. The reports are due twenty-one (21) days after the end of each quarter. Reports shall be submitted for the first quarter of 1980 and all subsequent quarters until the performance test is submitted. For the purpose of this paragraph, quarters are to be measured starting January 1, 1980.

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

December 18, 1980

Ms. Rebecca Hanmer
Regional Administrator
Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30308

Dear Ms. Hanmer:

Attached are several revisions to Georgia's State Implementation Plan for Air Quality Control. There are five copies of these revisions.

These revisions include a lead SIP for Georgia; alternate compliance schedules for St. Regis Paper Company in Atlanta, Printpak in Atlanta, American Can Company in Forest Park; a "bubble" for ITT Rayonier near Jesup; modifications to Georgia's Air Rules incorporating Set II VOC regulations and EPA's revised PSD regulations; and a modification to the alternate method of compliance for Georgia Power's Plant Bowen.

We are not including the alternate opacity for Union Camp's 11 and 12 power boilers in that EPA continues to fail to respond to this matter. Once EPA responds and this matter can be resolved, we will forward this revision to you.

Sincerely,

J. Leonard Ledbetter

J. Leonard Ledbetter
Director

JLL:mlr
Enclosures
c: Robert H. Collom
Thomas W. Devine

DEC 18, 1980 SIP REV.

ITT RAYONIER - JESUP, GEORGIA
Equivalent Alternative Emission Reduction Option

SUMMARY

On August 18, 1980, ITT Rayonier applied to the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources for approval of a proposed Equivalent Alternative Emission Reduction Option (bubble) for its Jesup kraft pulp mill. ITT Rayonier's proposal requested that particulate emission limitations on three permitted emission points be adjusted such that the total allowable emissions from these points was not changed. This proposal would allow ITT Rayonier to control certain particulate emission points in a more cost-effective manner than if each emission point were to comply with the applicable State emission limitation.

EPD's analysis of their proposal has indicated that all the requirements of the bubble will be met. Specifically, the ambient air quality will not deteriorate, and the proposed allowable emission rates for each point will be enforceable under the Georgia State Implementation Plan (SIP) with no compliance delays. Also, no applicable New Source Performance Standards (NSPS) emission limitations will be exceeded. As a result of this determination, EPD has issued permit to operate amendments to allow ITT Rayonier to implement their bubble as proposed.

BUBBLE GENERAL REQUIREMENTS

Georgia Air Quality Rule 391-3-1-.02(2)(8) provides for and states the requirements of an acceptable Equivalent Alternative Emission Reduction Option. The basic concept of this statute is to give a source of air pollution the opportunity, in certain limited cases, to reduce emissions in a more cost-effective manner than by strictly complying with each applicable State emission limitation for each emission point. This option would allow certain emission points to be controlled to levels well below applicable emission limitations while other more difficult or expensive to control points might be controlled less than that required by applicable emission limits. Of course, in all cases, the overriding command of this option is to attain and maintain air quality standards. Therefore, several limitations have been incorporated into this option to insure that the result of implementation of the option will not cause air quality degradation.

To be considered a candidate for a bubble, the source must first be in compliance with all applicable emission requirements. The candidate source must demonstrate that the results of the option will not interfere with the attainment and maintenance of ambient air quality standards as expeditiously as practicable and will not result in any delay in compliance of the source. The emissions of concern in the bubble must be quantifiable and trades among them must be even. Further the pollutants from the emission points involved in the bubble must be comparable in their environmental impact.

Enforcement considerations are also necessary. Each emission point involved in the bubble must be assigned a specific emission limitation with testing requirements to verify compliance. Also, the candidate source must agree not to seek a stay of enforcement of or relief from the requirements under the alternative approach. As demonstrated in the following sections, ITT Rayonier's proposal has satisfied each of those requirements.

ITT RAYONIER'S BUBBLE PROPOSAL

ITT Rayonier has proposed an Equivalent Alternative Emission Reduction Option for particulate emissions from the No. 6 Recovery Boiler, No. 3 Power Boiler and No. 5 Smelt Dissolving Tank at its Jesup kraft pulp mill. Each of these emission points has been permitted according to Georgia's SIP applicable emission limitations. The No. 6 Recovery Boiler is presently under construction, and the power boiler and smelt tank are existing emission points which have recently demonstrated compliance by emission tests. The stack parameters and allowable emission rates before and after implementing the proposed bubble are shown in Table I.

ITT's proposed strategy is to increase the SIP allowable particulate emissions of 52.1 pounds per hour from No. 6 Recovery Boiler by 24.7 pounds per hour. To offset this allowable emission increase, ITT has agreed to accept particulate emission limitation reductions of 10.0 pounds per hour on No. 3 Power Boiler and 14.7 pounds per hour on No. 5 Smelt Dissolving Tank. The proposed option will therefore result in no net allowable emission increases. (It should be noted that the increased allowable emissions from No. 6 Recovery Boiler of 76.8 pounds per hour does not exceed the NSPS allowable of 104.2 pounds per hour.)

The particulate emissions from the recovery boiler will mainly consist of sodium sulfate and sodium carbonate. The smelt tank particulate emissions contain sodium hydroxide, sodium carbonate and sodium sulfide. The power boiler fires bark and residual oil which results in particulates of inorganic ash, fixed carbon and other incomplete combustion particles. All of these pollutants are quite similar physically with respect to particle size and chemically with respect to toxicity and other health and environmental effects. EPD has therefore determined these emissions comparable for bubble purposes.

Ambient air quality monitoring data from a particulate sampler at the Wayne County High School in Jesup near the pulp mill indicated ambient particulate concentrations in 1979 of about 45 percent of the 24-hour average and annual geometric mean National Ambient Air Quality Standard. Analysis of the emission rates and stack parameters before and after implementing the bubble (Table I) indicates there will be a slight net ambient air quality improvement.

One of the most important factors affecting atmospheric dispersion of pollutants is height of the stack. Inspection of Table I shows decreased emissions from the 258 and 260-foot stacks of the power boiler and smelt tank respectively, and the equally increased emissions from the 300-foot recovery boiler stack will enhance dispersion and decrease ground-level ambient air concentrations.

Other factors affecting dispersion and subsequently ambient air concentrations include exit gas temperature and velocity and stack exit diameter. Empirical plume rise equations consider each of these factors and indicate that No. 6 Recovery Boiler stack will have the greatest plume rise of the three stacks. Since the emissions from this same stack are being increased, EPD has concluded that these stack parameters will also contribute to slight net ambient air quality improvement after implementing the bubble.

To verify compliance with each of the bubble-established emission limits in the operating permits, EPD has (or will) require annual stack emission testing of each involved stack. Amendments to the permits for these emission points specifically establish the allowable emission rates indicated in Table 2. Each emission point is now in compliance as demonstrated by emission testing, and implementation of the bubble will in no way delay compliance or existing enforcement actions. ITT Rayonier has agreed not to seek a stay of enforcement of or relief from the requirements under the bubble.

The EPD has therefore determined that ITT Rayonier's bubble proposal should be approved since its implementation will not adversely affect ambient air quality and will be an enforceable part of the existing SIP by permit amendments issued on November 4, 1980.

TABLE I

ITT RAYONIER, INC. - JESUP
ALTERNATIVE EMISSION REDUCTION OPTION EMISSION SUMMARY

Source	Stack Height (ft)	Stack Diameter (ft)	Exit Temperature (^{o}F)	Volumetric Flow (ACFM)	Allowable Particulate Emissions Under SIP (lb/hr)	Under EAERO (lb/hr)	Change (lb/hr)
No. 6 Recovery Boiler	300	16	425	534000	52.1	76.8	+24.7
No. 5 Smelt Tank	260	4.5	135	40500	35.4[a]	20.7	-14.7
No. 3 Power Boiler	258	8.0	450	250000	134[b]	124	-10.0

[a] Based on process input rate of 25 ton/hr

[b] Based on 405×10^{6} BTU/hr heat input (0.331 lb/10^{6} BTU)

TABLE II

ITT Rayonier, Inc. - Jesup
Alternative Emission Reduction Option
Allowable Particulate Emission Rate Rules

Source	Before EAERO	After EAERO
No. 6 Recovery Boiler	For Process Input Rate not more than 30 tons per hour $E=4.1\ P^{0.67}$	$E=4.1\ P^{0.67} + 24.7$
	For Process Input Rate greater than 30 tons per hour $E=55^{0.11} - 40$	$E=(55^{0.11} - 40) + 24.7$
No. 5 Smelt Tank	$E=4.1\ P^{0.67}$	$E=4.1\ P^{0.67} - 14.7$
No. 3 Power Boiler	$P_A=0.7\ (\frac{10}{R})^{0.202}$	$P_A=0.7\ (\frac{10}{R})^{0.202} - \frac{10}{R}$

E = Allowable emission rate in pounds per hour
P = Process input weight rate in tons per hour
R = Heat input rate to fuel burning equipment in 10^6 BTU per hour
P_A = Allowable emission rate in pounds per 10^6 BTU

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 2631-151-7686-C

COUNTY Wayne

EFFECTIVE DATE
OF AMENDMENT: NOV 4 1980

AMENDMENT TO PERMIT

In accordance with Section 9 of the Georgia Air Quality Act of 1978 (Ga. Law 1978, page 275 et seq, as amended) and the Rules and Regulations, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 2631-151-7686-C issued on November 4, 1980 to I. T. T. Rayonier, Incorporated, P. O. Box 207, Jesup, Georgia 31545

for the following: No. 6 recovery boiler (furnace) with electrostatic precipitatior for control of particulate emissions.

is hereby amended as follows: (on attached sheet)

Reason for the Amendment: (on attached sheet)

This Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards or schedules contained in or specified on the attached 1 page(s), which page(s) are a part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 2631-151-7686-C and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

J. Leonard Ledbetter
Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Amendment to Permit No. 2631-151-7686-C

Amendment:

The allowable particulate emission rate for the No. 6 recovery boiler shall be given by the following equations:

$E = 4.1P^{0.67} + 2.47$ pounds per hour; for process input weight rates up to and including 30 tons per hour; and

$E = (55P^{0.11} - 40) + 24.7$ pounds per hour; for process input weight rates above 30 tons per hour;

Where: E = emission rate in pounds per hour

P = process input weight rate in tons per hour

Except that in no event shall the allowable emission rate(s) exceed those specified in the Standards of Performance for Kraft Pulp Mills (40CFR 60.280 - .285).

Reason for Amendment:

The allowable particulate emission rate for the No. 6 recovery boiler has been increased as part of an Equivalent Alternative Emission Reduction Option as provided for in Rule 391-3-1-.02(a)8..

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 2631-151-4510-0

COUNTY Wayne

EFFECTIVE DATE
OF AMENDMENT: NOV 4 1980

AMENDMENT TO PERMIT

In accordance with Section 9 of the Georgia Air Quality Act of 1978 (Ga. Law 1978, page 275 et seq, as amended) and the Rules and Regulations, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 2631-151-4510-0 issued on March 5, 1976 to I. T. T. Rayonier, Incorporated, P. O. Box 207, Jesup, Georgia 31545

for the following: Number 5 smelt dissolving tank

is hereby amended as follows: The allowable particulate emission rate for the No. 5 smelt dissolving tank shall be given the following equation:

$$E = 4.1P^{0.67} - 14.7 \text{ pounds per hour}$$

Where: E = emission rate in pounds per hour
P = process input weight rate in tons per hour.

Reason for the Amendment: (See attached sheet)

This Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards or schedules contained in or specified on the attached 1 page(s), which page(s) are a part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 2631-151-4510-0 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

J. Leonard Ledbetter
Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

The allowable particulate emission rate for the No. 5 smelt dissolving tank has been reduced by 14.7 pounds per hour as part of an Equivalent Alternative Emission Reduction Option as provided for in Rule 391-02(a)8..

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 2631-151-7630-0

COUNTY Wayne

EFFECTIVE DATE
OF AMENDMENT: NOV 4 1980

AMENDMENT TO PERMIT

In accordance with Section 9 of the Georgia Air Quality Act of 1978 (Ga. Law 1978, page 275 et seq, as amended) and the Rules and Regulations, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 2631-151-7630-0 issued on August 11, 1980 to I. T. T. Rayonier, Incorporated, P. O. Box 207, Jesup, Georgia 31545

for the following: No. 3 Power Boiler with three Combustive Power Company dry scrubbers for the control of particulate emissions, Boiler rated at 405 million BTU/HR heat input. Boiler fires bark and number 6 fuel oil in combination.
is hereby amended as follows: (on attached sheet)

Reason for the Amendment: (on attached sheet)

This Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards or schedules contained in or specified on the attached page(s), which page(s) are a part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 2631-151-7630-0 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

J. Leonard Ledbetter
Director
Environmental Protection Division

STATE OF GOERIGA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Amendment to Permit No. 2631-151-7630-0

Amendment

The allowable particulate emission rate for the No. 3 Power Boiler shall be given by the following equation:

$$P = \left(0.7\left(\frac{10}{R}\right)^{0.202} - \frac{10 \text{ pounds per hour}}{R}\right) \text{ pounds per million BTU heat input;}$$

Where:

P = allowable weight of emissions of fly ash and/or other particulate matter in pounds per million BTU heat input

R = heat input of fuel-burning equipment in million BTU per hour.

Reason for Amendment

The allowable particulate emission rate for the No. 3 Power Boiler has been reduced as part of an Equvalent Alternative Emission Reduction Option as provided for in Rule 391-3-1-.02(a)8..

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO. 2631-151-7686-C

COUNTY Wayne

EFFECTIVE DATE
OF PERMIT: NOV 4 1980

21

PERMIT TO CONSTRUCT

In compliance with the provisions of Georgia's Air Quality Act of 1978 and the Rules and Regulations, Chapter 391-3-1, adopted pursuant to or in effect under that Act, I. T. T. Rayonier, Incorporated
P. O. Box 207, Jesup, Georgia 31545
is issued a Permit to Construct the following: No. 6 Recovery boiler (furnace) with electrostatic precipitator for control of particulate emissions.

located at: Jesup, Georgia

This Permit to Construct is conditioned upon compliance with all provisions of Georgia's Air Quality Act of 1978, the Rules and Regulations of Chapter 391-3-1 adopted or in effect under that act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the application(s) dated Augusta 24, 1979 , supporting data entered therein or attached thereto, or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

Absent prior revocation, suspension, modification or amendment by the Director, this Permit shall expire at midnight, the 31st day of January 19 83.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 2 page(s), which page(s) are a part of this Permit.

J. Leonard Ledbetter
Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO. 2631-151-7686-C

1. Emission Limitation

   a. This recovery boiler and associated control equipment shall be designed to comply with the emission limitations as specified in the Standards of Performance for Kraft Pulp Mills (40CFR60.280-.285, as amended); and the Rules for Air Quality Control, Chapter 391-3-1, which ever is more restrictive.

   b. At no time shall the particulate emissions from this source exceed 52.1 pounds per hour.

   c. The sulfur dioxide emissions from this source shall not exceed 250 ppm when the recovery boiler is operating at full load.

2. Monitoring

   a. The Permittee shall install, calibrate, operate, and maintain continuous emissions monitoring systems as required by the Standards of Performance for Kraft Pulp Mills (40CFR60.284). Such monitoring systems shall comply with monitoring requirements of the General Provisions of the Standards of Performance for New Stationary Sources (40CFR60.13).

   b. The Permittee shall install, calibrate, operate and maintain a system to continuously measure and record the concentration of sulfur dioxide in the recovery boiler flue gas. The continuous monitoring system chosen shall comply with Performance Specification 2, 40CFR60, Appendix B.

   c. In lieu of continuous sulfur dioxide monitoring as specified in Condition 2.b., the Permittee may elect to measure and record green liquor sulfidity and/or other operating parameters, as approved by the Division, to monitor sulfur dioxide emissions from this recovery boiler. If this option is selected, the Permittee shall submit details of the proposed methods, procedures and frequency of sulfidity measurements to the Division for its review within 30 days of startup.

3. Stack Testing

   a. Within 60 days after achieving the maximum production rate at which the source will be operated, but no later than 180 days after startup, the Permittee shall conduct or cause to be conducted performance test(s) and furnish this Division with a written report of the results of such performance test(s). The results of the performance test(s) shall be submitted to the Division within 30 days of the completion of said testing.

b. Particulate matter, sulfur dioxide, and total reduced sulfur performance tests shall be conducted and data reduced in accordance with methods and procedures approved by this Division.

c. The Permittee shall provide this Division 30 days prior notice of the date of performance test(s) to afford the opportunity to have an observer present.

d. All required continuous monitoring systems shall be installed, calibrated and operating when the emission test(s) are conducted.

e. The Permittee shall provide performance test ports which comply with criteria more fully described in 40CFR60, Appendix A.

4. Control Equipment

The Permittee must submit technical data to this Division within ten working days after it becomes available pertaining to the selected recovery furnace and particulate emissions control device. These data would include, but not be limited to: a copy of the formal bid from the successful bidder, equipment operator's manual, guaranteed efficiency or emission rate, and major design parameters (such as plate area, sectionalization, air flow rate, and "low odor" design). This Division, upon review of these data, may revoke or modify this permit if evaluation of these data is different from data in the application, in such a way, that it would cause the selected control device to be inadequate to meet the emission limits specified above.

5. Notification

The Permittee shall furnish this Division the following written notification:

a. The anticipated date of startup of this source, not more than 60 nor less than 30 days prior to such date; and

b. The actual date of startup of this source, within 15 days after such date.

For purpose of this permit, "startup" shall mean the setting in operation of a source for any purpose.

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

May 16, 1979

Mr. John C. White
Regional Administrator
Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30308

Dear John:

This letter is to transmit five copies of the revision to Georgia's State Implementation Plan involving an Order for Georgia Power's Plant Bowen. This Order was subjected to a public hearing on December 20, following a thirty day prior notice to the general public as required in Federal regulations for implementation plans. I am submitting this revision to you under the authority granted to me in Section 6 of the Georgia Air Quality Act of 1978.

The Order has been modified to accommodate items mentioned in your letter of April 18, 1979. In addition, other minor changes were made to the startup and shutdown definitions by adding load and time limits. These concepts were understood to apply but had not been previously presented in an enforceable manner. The temperature cutoff point for operation of the electrostatic precipitators was also changed. It was adjusted downward following the receipt of information from Georgia Power Company concerning precipitator manufacturers recommendations.

We are quite satisfied with the terms of the Order and Georgia Power has consented to it. I would like to see a favorable proposal from your office with regard to this SIP Revision/Order. If you have any further concerns or comments, please feel free to contact me.

Sincerely,

Leonard

J. Leonard Ledbetter
Director

JLL:mlr

Enclosures

APPROVAL

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

IN THE MATTER OF:

PLANT BOWEN UNITS 1 AND 2
GEORGIA POWER COMPANY
Taylorsville, Georgia

PROCEEDING UNDER THE GEORGIA
AIR QUALITY ACT OF 1978

EPD-AQC-163

ORDER

This Order is issued pursuant to the Georgia Air Quality Act of 1978 (Georgia Code Ann. 43-2701 et seq; hereinafter referred to as the "Act").

The purpose of this Order is to impose operating limitations on Plant Bowen Units 1 and 2 to insure that during the installation of pollution control equipment the units meet the Regulation requirements for particulate and opacity emissions in Georgia's Air Quality Control Regulations. The use of operating limitations to maintain compliance will be authorized as a means of compliance only during the installation period, which ends July 1, 1981 for Unit 2 and January 1, 1982 for Unit 1. During the installation period, the company must make quarterly operations reports to the Division, and must report any measured violation of the interim operating limitations.

Public notice, public hearing, and notice to the United States Environmental Protection Agency are or have been provided prior to issuance, as required by law. This Order will become a proposed revision to the State Implementation Plan and will be submitted to the United States Environmental Protection Agency in accordance with the requirements for an approvable plan under Section 110 of the Federal Clean Air Act.

FINDINGS

On June 17, 1977, and in subsequent communications, Robert H. Collom, Jr., Chief, Air Protection, Georgia Environmental Protection Division, pursuant to authority delegated to him by the Director of the Environmental Protection Divisio (hereinafter, "EPD") notified Georgia Power Company (hereinafter, the "Company"). that Units Number 1 and 2 at its Plant Bowen facility, Taylorsville, Georgia were evidenced to be in violation of the Rules and Regulations for Air Quality Control of the State of Georgia. Specific violations evidenced were of Reg. 391-3-1-.02 (2)(b) dealing with the control of smoke emissions and Reg. 391-3-1-.02(2)(d) deal

ing with particulate matter from fuel burning equipment.

After a thorough investigation and analysis of all relevant facts, the Director has determined that compliance in accordance with this Order is reasonable. The schedule (Appendix "A"), which prescribes dates by which designated compliance activities will be accomplished by the Company, requires compliance through control of load during installation of other control equipment. It also requires the Company to take reasonable and practicable interim measures to control emissions. Additionally, monitoring and reporting of emissions is appropriate and required by the Order.

ORDER

It is therefore, considered and Ordered and consented as follows:

I
(SCHEDULE)

The attached Appendix "A" governing an air pollution abatement program is incorporated into and made an enforceable part of this Order for the control of particulate and visible emissions at the Company's Plant Bowen, Units 1 and 2 located in Taylorsville, Georgia. The Company shall comply with the timetable and schedule contained in Appendix "A" and the designated compliance activities shall be completed by the dates specified. The schedule establishes increments of progress designed to maintain compliance, and Appendix "A" provides for an operating level (load) limit to achieve compliance during the period of installation of other pollution control means.

II
(CHIEF DESIGNATED)

All submissions of source performance or compliance tests results, reports and other items required by this Order are to be made to Robert H. Collom, Jr., Chief, Air Protection Branch, Environmental Protection Division, 270 Washington Street, Atlanta, Georgia 30334 (hereinafter, the "Chief")

III
(PROGRESS REPORTS)

The Company shall submit, as part of the quarterly reports required by Paragraph VII hereof, commencing with the quarter ending December 31, 1978, a progress report for the Units 1 and 2 specified in Paragraph I. These reports

will contain specific information on the progress toward milestone or increment of progress contained in Paragraph I or VI.

If any delay is anticipated in meeting said milestones, the Company shall immediately notify the Chief in writing of the anticipated delay and reasons therefore. Notification to EPD of any anticipated delay shall not excuse the delay.

These reports shall also contain specific information on the use of flue gas conditioning (if any) and modification to existing control equipment (if any). The Company shall submit, no later than five (5) days after the deadline for completion of each milestone required by Paragraph I or VI, certification to the Chief as to whether such milestone has been met.

IV
(EXCESSIVE EMISSIONS REPORTING)

If the Company shall operate in violation of any limits established under Paragraph V, then, during such occurrence, the Company shall take all reasonable steps to reduce the emissions in excess of the emission limitations established in Paragraph V. The Director of EPD shall have authority during such occurrences to require if necessary, the Company to take specific additional steps to reduce emissions.

Should the Company exceed any applicable limits required by Paragraph V (for whatever reason, and whether measured mechanically, visually, or otherwise) then, as promptly as possible, and not more than twenty four (24) hours after the start of such occurrence, the Company shall notify the Chief of such violation by telephone or telegram, and within ten (10) days after the termination of such an occurrence, the Company shall submit to the Chief a report including:

1. The general nature of the situation that resulted in Plant Bowen, Units 1 or 2 (or both) being in violation.
2. The time the excess began and ended.
3. A detailed description of the specific circumstances and conditions surrounding the occurrence of the excess, including, but not necessarily limited to, equipment operation data such as amperage, voltage and spark rate of emission control equipment, and other maintenance and operation data.
4. The action taken by the Company to lessen the degree and duration of the conditions which resulted in the excess.
5. Any other steps taken to minimize the extent or duration of the excess and its air quality impact.

6. A record of the hourly and six minute average of the opacity of emissions for the duration of the occurrence, and an estimate of the particulate emission rate during the period of excess.

7. An analysis of what steps will be taken to prevent or minimize similar occurrences in the future. The analysis should address such areas as better design, operating practices, or maintenance procedures.

Reporting of any information to EPD hereunder does not excuse any violation.

V

(OPACITY LIMIT/OPERATING LEVEL (CORRELATED OPACITY) LIMITATIONS/PROOF OF EXCESS EMISSIONS)

A

At the present time there is no totally feasible means of continuously monitoring particulate matter mass emissions. However, it is technologically possible to monitor the opacity of emissions continuously and it is possible to obtain, through a correlation test, an approximation of mass emissions in relation to opacity. Therefore, the Company agrees that at all times (and under the conditions provided in Part B), it will operate Plant Bowen Units 1 and 2 such that the opacity of emissions from a Unit shall not exceed a correlated opacity limit determined and established as specified in this Paragraph for the respective Unit.

Thus, the allowable emission limits for a Unit are and shall be both:

1. forty (40) percent opacity for any six (6) minute period, for compliance with Reg. 391-3-1-.02(2)(b); and,
2. for compliance with Reg. 391-3-1-.02(2)(d), that correlated opacity (an hourly period opacity, as in Paragraph VII, and as determined by correlation test as provided in this Paragraph) which corresponds to the mass emission rate which complies with Reg. 391-3-1-.02(2)(d) for the individual Unit

The correlated opacity limit will be established based upon a series of particulate emissions stack tests (in accordance with Paragraph VI) with simultaneously recorded opacity monitor data (in accordance with Paragraph VII) (hereinafter, referred to as a "correlation test").

A correlation test for a Unit shall consist of a series of particulate matter emissions stack tests (correlated with simultaneously recorded opacity monitoring data) performed in a number, and under conditions, and according to procedures and methods (including 40 Code of Federal Regulations (CFR), Part 60 as now or hereafter amended) approved by the Chief. Initial correlation tests

2. The initial correlated opacity limit thus established may be confirmed or modified, by the Chief, based on subsequent tests correlating particulate emissions (measured by stack tests) and opacity monitoring data (i.e. a new correlation test). Any subsequent correlation test results shall be subject to approval by the Chief. A modified correlated opacity limit reflected by subsequent correlation tests may be established by the Chief and become applicable on the date it is specified by the Chief and shall continue unless modified by the Chief. Any such modification which would raise the initial correlated opacity limit stated herein must be approved by EPA pursuant to S 110 of the Federal Clean Air Act prior to becoming effective.

Correlation tests shall be conducted, according to 40 CFR, Part 60, as now or hereafter amended as scheduled in Appendix "B". Additional correlation testing may be authorized by the Chief upon request by the Company. The Chief can require new correlation tests at any time he determines that the currently effective correlated opacity limit is invalid, or when Plant (or Unit) operations or fuel quality vary or change.

If flue gas conditioning is to be used on a Unit at any time, then a correlated opacity limit with the flue gas conditioning being used must also be established for that Unit. When flue gas conditioning is being used on a Unit this correlated opacity limit will apply. In the event the flue gas conditioning system malfunctions or is rendered inoperable or is not being operated for any reason - then the correlated opacity limit determined without flue gas conditioning will apply. While flue gas conditioning is being used, the conditioning or treatment technique can be altered, changed or adjusted only with the prior approval of the Chief. Otherwise, the conditioning must be that which was used in determining the correlated opacity limit.

Unless otherwise provided herein, whenever new tests are authorized or required by the Chief, or by this Order, tests must be performed within a reasonable time, and 30 days shall be considered a reasonable time.

Compliance with an applicable correlated opacity limit will be construed as compliance with Reg. 391-3-1-.02(2)(d) under the conditions of this Order and until the dates specified in Appendix "A" Paragraphs 8 (for Unit 2) and 11 (for Unit 1). Provided, however, that a mass emission rate test (i.e. stack test) conducted in accordance with 40 CFR Part 60 as now or hereafter amended, may be required at any time by the Director, and, if so required, the results of such testing may be used to prove a violation of Reg. 391-3-1-.02(2)(d) notwithstanding any other provision of this Order.

(1) The opacity limits set forth in this order shall apply at all times except that, excessive emissions resulting from startup, shutdown, or malfunction shall not constitute representative conditions for the purpose of a correlation test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction which occur though ordinary diligence is employed be considered a violation of the applicable emission limit, provided, however that during any such startup, shutdown, or malfunction excess (I) the best maintenance and operational practices to minimize emissions are adhered to at all times and (II) all associated air pollution control equipment is maintained and operated at all times in a manner consistent with good air pollution control practice for minimizing emissions, and (III) the duration of excess emissions is minimized.

Further, excessive emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited and are violations of the applicable emission limits of this Order.

"Startup" means the commencement of operation of a Unit. Startup ceases at the time required to be reported pursuant to (4) (ii) hereof or when generation output reaches 300 MW, whichever occurs first.

"Shutdown" means the cessation of the operation of a Unit for any purpose. Shutdown begins at the onset of unstable firing conditions which, for these Units, occurs at the time required to be reported pursuant to (5)(i) hereof, and requires continuous load reduction thereafter to 0 MW output within 3 hours. However, during shutdown, the electrostatic precipitators must remain energized until the time required to be reported pursuant to (5)(ii) hereof.

"Malfunction" means mechanical and/or electrical failure of a process, or of air pollution control process, or equipment, resulting in operation in an abnormal or unusual manner.

Determination of whether acceptable operating and maintenance procecures are being used will be based on information which shall be made available to the Director, hereunder or as otherwise provided in this Order, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(2) In all cases not coming within the limited scope of B(1) above, any emission or opacity in excess of the applicable correlated opacity limit established by Paragraph V of this Order (whether measured by continuous opacity monitor or as visually determined) is evidence of noncompliance with or violation of Reg. 391-3-1-.02(2)(d), this Order, and the Act, and such evidence, in and of itself, is sufficient to so support a finding of such noncompliance or violation in any proceeding or action, even if rebuttal or mitigating evidence is presented.

(3) Any emission or opacity in excess of the 40% six minute period opacity limitation (whether measured by continuous opacity monitor or visually determined) is evidence of noncompliance with or violation of Regulation 391-3-1-.02(2)(b), this Order, and the Act, and such evidence, in and of itself, is sufficient to support a finding of such noncompliance or violation in any proceeding or action, even if rebuttal or mitigating evidence is presented.

(4) With regard to any period of "startup" the Company shall record and submit as part of the report required under Paragraph VII as part of the quarterly report (or under Paragraph IV, for any periods of excess emissions) the following: (i) the beginning time of the first oil or gas fire in the boiler, and (ii) the time at which the exiting gas temperature from the air preheaters reached 266^{o}F or the time at which the electrostatic precipitators are energized (whichever event occurs first), and (iii) intermediate temperature measurements taken at approximately 30 minute intervals between the time of beginning the first oil or gas fire in the boiler and the time of energizing the electrostatic precipitators.

(5) With regard to any period of "shutdown" the Company shall record and submit under Paragraph VII as part of the quarterly report (or under Paragraph IV, for any periods of excess emissions) the following: (i) the time at which the electrical output drops below 300 MW or the time at which coal firing is being maintained with not more that 3 pulverizer mills (whichever event occurs first), and (ii) the time at which the exiting gas temperture from the air preheaters reaches 266^{o}F, and (iii) the time the combustion air fan prime movers are disengaged to remove the fans from service.

(6) Compliance with the 40% opacity limit and the correlated opacity (or correlated opacity limit) for determining compliance with Reg. 391-3-1-.02(2)(d) shall be determined, measured, monitored, and reported as required by Paragraph VII.

VI
(PARTICULATE EMISSIONS STACK TESTS/CORRELATION TESTS)

That the attached Appendix "B" governing particulate emissions stack testing and correlation testing is incorporated into and made an enforceable part of this Order for the control of particulate emissions at the Company's Plant Bowen, Units 1 and 2 located in Taylorsville, Georgia. The Company shall comply with the timetable and schedule contained in Appendix "B" and the designated compliance activities shall be completed by the dates specified.

Particulate emissions stack testing shall be performed and conducted using methods and procedures (including 40 Code of Federal Regulations (CFR), Part 60 as now or hereafter amended) which have been approved, in advance, by the Chief. The Company shall provide the Chief ten (10) days verbal notice (with written confirmation) of the expected dates for the conducting of any such testing to afford an opportunity to have an observer present.

VII
(MONITORING/QUARTERLY REPORTS/WEEKLY REPORTS/SAMPLES)

1. The Company shall maintain and operate an in-stack continuous monitoring system (in each stack liner) for measuring and recording the opacity (to be used also as a correlated opacity reading or measurement) of the emissions from Plant Bowen, Units 1 and 2. The maintenance and operation of the continuous monitoring system shall be conducted by the Company following procedures and requirements which have been approved by the Chief and in compliance with 40 CFR Part 60, as now or hereafter amended.

Continuous monitoring system data (opacity monitor Charts or equivalent) shall be retained by the Company for two (2) years, and shall be submitted to the Chief upon request. The opacity monitor records representing the opacities measured during any period of stack testing conducted in association with correlation testing shall be submitted to the Chief concurrent with submittal of the results of the correlation tests.

An individual six (6) minute opacity value is determined by averaging twenty-four (24) measurements taken at fifteen (15) second intervals. A six (6) minute opacity value shall be computed for every consecutive (but mutually exclusive) six (6) minute interval.

For purposes of determining compliance with the applicable correlated opacity limit [and thus, compliance with 391-3-1-.02(2)(d)] an hourly period opacity shall

be used. An hourly period opacity (which shall be used to determine compliance with the applicable correlated opacity limit) shall be determined every six (6) minutes by averaging the last ten (10) six (6) minute opacity values.

Each individual six (6) minute opacity value is to be used for determining compliance with the forty (40) percent six (6) minute period opacity limitation of Reg. 391-3-1-.02(2)(b).

During periods when the continuous monitoring system is inoperative for more than one (1) hour, a visual determination of the opacity shall be made by the Company and recorded once per hour (and at 60 minute intervals) during daylight hours. The Company shall notify the Chief of the occurence of any monitor malfunction if such malfunction renders the monitoring system inoperative for more than 48 hours. Notification will be by phone during normal working hours as soon as possible after the end of the 48 hour period. The Company will inform the Chief as to the estimated time when the monitoring system will be back in service (see Paragraph IV for reports of opacity violation). Any such visual determination shall be performed by an observer certified by either EPA or EPD and in accordance with 40 CFR Part 60, Appendix A, Reference Method 9. The records of any such visual determinations shall be retained by the Company for two (2) years, and shall be submitted to the Chief upon request. Each visual determination of opacity (6 minute average) made pursuant to this subparagraph may be used to demonstrate compliance or prove violations for either the 40% opacity (Reg. 391-3-1-.02(2)(b)) or a correlated opacity limit (Reg. 391-3-1-.02(2)(d)).

Each calendar quarter, the Company shall submit to the Chief a report that indicates the date(s) and time(s) during which the continuous monitoring system was inoperative (excepting zero and span checks) in the preceding quarter. Such report shall include the nature of the repairs or adjustments undertaken by the Company during such period(s).

The quarterly reports specified in this Paragraph shall be submitted by the 21st day of the month following the end of each quarter. The first quarter ends December 31, 1978.

2. The Company shall submit to the Chief each week the weekly averages of the following characteristics of the coal burned in Units 1 and 2:

(a) higher heating value

(b) Sulfur concentration, [for the purpose of monitoring compliance with Reg. 391-3-1.-02(2)(g)] reported as percent by weight

(c) ash concentration, reported as percent by weight

(d) moisture concentration, reported as percent by weight

Said weekly averages shall be determined by computing the averages of the characteristic of weekly composite coal samples. The test coal samples shall be collected, prepared, and analyzed in accordance with procedures which have been approved by the Chief.

3. The Company shall submit to the Chief semi-annually on dates specified by the Chief, a split sample of the coal burned in Units 1 and 2. Said split sample shall be collected and prepared in accordance with procedures which have been approved by the Chief.

Reporting of any information to EPD hereunder does not excuse any violation.

VIII
(NOTICE)

The Company is hereby notified that failure to achieve compliance by July 1, 1979, may result in a requirement to pay a noncompliance penalty pursuant to Section 20 of the Act or Section 120 of the Clean Air Act. In the event of such failure, the Company will be formally notified of its noncompliance pursuant to Section 20 or Section 120 and any regulations promulgated thereunder.

IX
(ENFORCEMENT)

Violation of any requirement (including any opacity limit or correlated opacity limit) of this Order shall result in enforcement of such requirement pursuant to the Act.

X
(EFFECTIVE DATE/TERMINATION)

This Order will have full force and effect upon execution. The Company's consent is attached hereto and incorporated herein. This Order shall terminate on July 1, 1981 with respect to Unit 2, and on January 1, 1982 with respect to Unit 1. Upon termination with respect to a Unit, that Unit is subject to all the applicable requirements of Georgia Air Quality Control Rules and Regulations in Chapter 391-3-1.

XI
(EFFECT OF ORDER)

This Order shall not, in any event, affect the Director's emergency powers under Section 15 of the Act, nor is the Company relieved from complying with any requirements (under, or, or pursuant to the Act) not addressed in this Order.

Permits issued to facilities covered by this Order shall remain in effect,

APPENDIX "A"
STATE OF GEORGIA

ORDER*

APPENDIX "A"
STATE OF GEORGIA

ORDER*

Georgia Power Company shall complete the following acts with respect to control of particulate and smoke emissions from its Units Number 1 and 2 at its Plant Bowen, Taylorsville, Georgia on or before the dates specified: [Note: Two control techniques are contemplated. Each Unit's operating level (load) is to be currently reduced to achieve compliance. The Company will have installed and will use other means for compliance after July 1, 1981 (Unit 2) and January 1, 1982, (Unit 1)].

Designated Compliance Activity/ Milestone/Increment of Progress	Date to be Completed
1. Execute and enter into a binding contract or purchase order for air pollution control equipment to be used as other control means. Contract must require shipment being made by date specified in 5.	July 15, 1978 Completed
2. Submission of Application for Permit to Construct (for other control means) to EPD. Prepare for reduced operating level to achieve compliance.	August 15, 1978 Completed
3. Reduce operating level of Units to comply with rules and regulations for Air Quality Control, 391-3-1. Operate in compliance with opacity limits specified in Paragraph V of this Order.	October 1, 1978, and at all times subsequent
4. Begin relocation of existing structures as part of installation of other control means.	December 1, 1978
5. Begin on site construction of air pollution control equipment for use as other control means.	July 15, 1979
6. Complete construction and tie in of Unit No. 2 control equipment.	May 1, 1981

* This Appendix is attached to and made an enforceable part of an Order issued to Georgia Power Company on 5/16/79 pursuant to the Georgia Air Quality Act of 1978.

Designated Compliance Activity/ Milestone/Increment of Progress	Date to be Completed
7. Complete operational adjustment and particulate emission compliance/performance tests with control equipment on Unit 2. Results of particulate emission tests are to be submitted to Georgia EPD within thirty (30) days of the completion of such testing. Testing methods, procedures, and operating conditions shall be approved by EPD. Tests shall be conducted at maximum expected operating capacity [no operational (load) limit].	June 1, 1981
8. Use of control equipment on Unit 2 to achieve compliance with all applicable Georgia Rules and Regulations for Air Quality Control, 391-3-1, as demonstrated by valid particulate emission compliance/ performance tests.	July 1, 1981 and at all times subsequent
9. Complete construction and tie in of Unit 1 control equipment.	November 1, 1981
10. Complete operational adjustment and particulate emission compliance/ performance tests with control equipment on Unit 1. Results of particulate emission tests to be submitted to Georgia EPD within thirty (30) days of the completion of such testing. Testing methods, procedures and operating conditions shall be approved by EPD. Tests shall be conducted at maximum expected operating capacity, [no operational (load) limit].	December 1, 1981
11. Use of control equipment on Unit 1 to achieve compliance with applicable Georgia Rules and Regulations for Air Quality Control, 391-3-1, as demonstrated by valid particulate emission compliance/performance tests.	January 1, 1982, and at all times subsequent

ORDER*

Georgia Power Company shall complete the following Acts with respect to particulate emissions stack testing, correlation testing and computation of correlated opacity limits for Units Number 1 and 2 of its Plant Bowen, Taylorsville, Georgia facility on or before the dates specified:

Reports (including any and all test results and data necessary for establishing a correlated opacity limit) of all correlation tests shall be submitted within thirty (30) days of test completion in any case not provided for in this Appendix.

Designated Compliance Activity/ Milestone/Increment of Progress	Date to be Completed
1. Complete and report results of stack tests, correlation tests and computation of correlated opacity limit (all in accordance with approved methods and procedures) for Unit 1 to the Chief.	Completed
2. Complete and report results of stack tests, correlation tests and computation of correlated opacity limit (all in accordance with approved methods and procedures) for Unit 2 to the Chief.	Completed
3. Completion of Evaluation of Flue Gas Conditioning Program on both Units 1 and 2 (including performing approved stack and correlation tests and correlated opacity limit computation on each unit) with flue gas conditioning in operation and submit report of tests to Chief.	Completed
4. Completion of new correlation tests and computation of correlated opacity limit for Unit 1 and Unit 2.	Six (6) months after the completion of the last correlation test of the respective unit (this is a routine interval test). Testing should begin so that completion occurs as nearly as possible at six (6) months interval tests; and within a reasonable time if test is otherwise authorized or required by the Chief.

* This Appendix is attached to and made an enforceable part of an Order issued to Georgia Power Company on 5/16/79 pursuant to the Georgia Air Quality Act of 1978.

APPENDIX "C"
STATE OF GEORGIA

ORDER*

Georgia Power Company has reviewed this Order, believes it to be a means to maintain compliance with the applicable emission limiting regulations as contained in the Rules and Regulations for Air Quality Control, and consents to all of the requirements and terms of this Order.

Georgia Power Company hereby represents that it has full corporate authority and the necessary corporate approval to enter into and perform in accordance with the terms and provisions of this Order. The signatory below represents that he has the requisite corporate authority to execute this Consent on behalf of Georgia Power Company.

May 11, 1979
DATE

E. A. Kelly VICE PRESIDENT
GEORGIA POWER COMPANY

Secretary

* This Consent is hereby attached to and incorporated by reference into an Order issued to the Georgia Power Company on 5/16/79 pursuant to the Georgia Air Quality Act of 1978.

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

December 22, 1981

Mr. Charles Jeter
Regional Administrator
EPA, Region IV
345 Courtland Street
Atlanta, Georgia 30308

Dear Mr. Jeter:

The Division previously submitted to EPA a permit involving Union Camp's Savannah facility Power Boilers 11 and 12 to establish an alternate opacity standard. EPA has proposed to approve this permit as part of Georgia's SIP.

Enclosed is the final permit which incorporated some slight modifications to accommodate Union Camp's shifts. We trust that this permit will be approved as part of our SIP without any difficulty.

Sincerely,

J. Leonard Ledbetter

J. Leonard Ledbetter
Director

JLL:mlr

Enclosure

c: Thomas W. Devine

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AIR QUALITY PERMIT

Permit No.
2631-025-7397

Effective Date
DEC 18 1981

In accordance with the provisions of Georgia's Air Quality Act of 1978 and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, UNION CAMP CORPORATION, Post Office Box 570, Savannah, Georgia 31402

is issued a Permit for the following: Numbers 11 and 12 power boilers.

location: Savannah, Georgia

This Permit is conditioned upon compliance with all provisions of Georgia's Air Quality Act of 1978, the Rules, Chapter 391-3-1, adopted or in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the application(s) dated October 19, 1978, supporting data entered therein or attached thereto, or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 4 page(s), which page(s) are a part of this Permit.

J. Leonard Ledbetter
Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

1. Emission Limitations

a. When the Numbers 11 and 12 Power Boilers are operating simultaneously:

(1) The allowable particulate emission rate shall be specified by the Division in pounds of particulates per million of BTU per hour of heat input (10^6 BTU per hour) and shall be measured in the common stack serving these boilers. The initial allowable emission limit for the combined boiler emissions shall be 0.296 pounds of particulate per million BTU heat input. This emission limit shall be subject to periodic review and may be adjusted by a letter from the Director of the Division. Any such adjustment(s) shall only be made to reflect changes in the operation of the Numbers 11 and 12 Power Boilers, shall be based upon the boilers' operating records, and shall not deviate from the allowable emission in the Georgia Air Quality Control Rules in effect at the time.

(2) The visible emissions from the common stack shall not exceed 46 percent opacity for an eight-hour average, and no six-minute average shall exceed 60 percent opacity. The visible emissions shall be measured by an approved continuous opacity monitoring system installed on the common stack serving these boilers. The eight-hour average opacity shall be based on all valid six-minute averages measured during each eight-hour period. The number of six-minute averages during each eight-hour period will normally not be less than 78, with two six-minute periods used to perform zero and span checks on the opacity monitor. The averaging periods shall be 6:00 a.m. to 2:00 p.m., 2:00 p.m. to 10:00 p.m., and 10:00 p.m. to 6:00 a.m. of each day. The visible emission limit(s) shall be subject to periodic review and may be adjusted by an amendment to this permit. Any such amendment shall be made to reflect changes in the complying particulate emission rate versus visible emission correlation.

b. When the Number 12 Power Boiler is not in operation:

(1) The Permittee shall at no time use bark as a fuel in Number 11 Power Boiler unless the Permittee has demonstrated compliance with the particulate emission limit within the previous 12 months by submittal of a valid emission test in accordance with Condition 2.b. of this Permit. If such compliance has been demonstrated, the Permittee shall limit the rate of bark fired in the Number 11 Power Boiler to that which was fired during the most recent complying particulate emission test.

(2) The visible emissions from the Number 11 Power Boiler shall not exceed the limits defined by Condition 1.a.(2) of this permit.

c. When the Number 11 Power Boiler is not in operation, the visible emissions from the Number 12 Power Boiler shall not exceed the limits defined by Condition 1.a.(2) of this Permit.

2. Testing

a. The Permittee shall perform particulate emission tests on the common stack serving the combined emissions from Numbers 11 and 12 Power Boilers twice a year at approximately six-month intervals. The results therefrom shall be submitted to the Division within 45 days after the date of the completion of the test. The test procedure shall be approved by the Division prior to performing the test; and each test shall nominally consist of three individual runs. Each test shall be performed when the boilers are operating in a normal mode and at representative maximum expected operating loads as determined by operating records from the preceding six months.

b. The Permittee shall perform particulate emission compliance tests on the Number 11 Power Boiler at least once per year. In the event the compliance test is conducted when Number 12 Power Boiler is operating simultaneously, the sampling location shall be at a point along the duct exhausting Number 11 Power Boiler before the gases enter the common stack. If the compliance test is conducted when Number 12 Power Boiler is not in operation, the Permittee may elect to conduct the compliance test using a sampling location in the common stack. The sampling location(s), test methods and procedures shall be approved by the Division prior to performing the tests; and each test shall nominally consist of three individual test runs. The results of the test shall be submitted to the Division within 45 days after the date of the completion of the test. Each compliance test shall be performed when the boiler is operating in a mode and at fuel firing rates which are representative of the operation of Number 11 Power Boiler for those periods when the Number 12 Power Boiler was not in operation.

c. The Permittee shall give written notice to the Division a minimum of 14 days prior to conducting each compliance test specified in Condition 2.a. or 2.b. of this Permit to afford an opportunity to evaluate the test procedure and to have an observer present at such testing.

3. Monitoring and Recordkeeping

a. The Permittee shall install, calibrate, operate and maintain a continuous monitoring system to measure and record the opacity of the Numbers 11 and 12 Power Boilers' flue gas stream in the common stack. The opacity monitoring system shall comply with Performance Specification 1, 40 CFR 60, Appendix B.

b. The Permittee shall retain the continuous monitoring system emission records (opacity monitor charts or equivalent), monitor malfunction records, and visual opacity determinations for a period of two (2) years and shall submit the data to the Division upon request. All stack test reports submitted to the Division pursuant to Condition 2. of this Permit shall include copies of the continuous monitoring system outputs covering the period(s) of testing.

c. The Permittee shall maintain a daily record of operating parameters for the power boilers and shall make these records available to the Division upon request. Daily records of operating parameters shall be retained on file by the Permittee a minimum of 12 months. All compliance test reports submitted to the Division pursuant to Condition 2. of this Permit shall include copies of the daily records of operating parameters for the periods of testing. The daily record of parameters shall include but not be limited to the type(s) of fuel(s) and quantities of fuel(s) burned in each power boiler, and the steam production strip chart recorder records for each power boiler.

d. The Permittee shall routinely test the fuel oil fired in the Number 11 and 12 Power Boilers for heating value and percent sulfur by weight; and the results therefrom shall be submitted to the Division on a quarterly basis. The samples shall be collected and analyzed in accordance with methods and procedures approved by the Division.

4. Excess Emission Reporting

a. For each calendar quarter, the Permittee shall submit to the Division a written report indicating all instances of visible emissions in excess of the emission limits specified in Condition 1.a.(2) of this Permit. The report shall specify the date, time, and duration of each period of excess emissions. Startups, shutdowns, and malfunctions shall be identified; and when a period of excess emissions is due to a malfunction, a discussion of the cause(s) and corrective action(s) taken by the Permittee shall be included in the report. Visible emissions in excess of the emission limits specified in Condition 1.a.(2) of this Permit shall constitute

a violation of the Permit; and three percent of the total contiguous six-minute averaging periods in a quarter may exceed 60 percent, except that in any one day the visible emissions cannot exceed 60 percent opacity for more than 100 six-minute averaging periods (10 hours)(excluding periods of startup, shutdown, excused malfunction, and periods when the boilers are not operating). In the event that no periods of excess emissions occured, the Permittee shall so state in the quarterly excessive emissions report.

b. In the event that the continuous emission monitoring system specified in Condition 3.a. of this Permit is inoperative for more than 24 hours, the Permittee shall visually determine and record the plume opacity at least twice daily, during daylight hours. All such visual determinations shall be performed by trained observers using methods and procedures which have been approved by the Division. The Permittee shall submit copies of all visual determinations with the quarterly excessive emissions report specified in Condition 4.a. of this Permit.

c. For each calendar quarter, the Permittee shall submit to the Division a written report indicating the date(s), time(s) and reason(s) during the previous quarter when the continuous monitoring system specified in Condition 3.a. of this Permit was inoperative (excepting zero and span checks). Such report shall include the nature of any repairs or adjustments undertaken by the Permittee during such period(s).

d. The Permittee shall submit all quarterly reports required pursuant to Condition 4.a. through 4.c. of this Permit to the Division within 45 days after the end of each calendar quarter.

e. Compliance with Condition 3.a. of this Permit shall excuse the Permittee from the requirements of Rule 391-3-1-.02(6)(b)1.(iv).

5. Permit to Operate No. 2631-025-7379-O supercedes and replaces Temporary Permit to Operate No. 2631-025-1025-T (issued May 16, 1974) and Permit to Construct No. 2631-025-5083-C (issued September 22, 1976).

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA, GEORGIA 30334

AUG 23 1983

Mr. Don D. Kinnett
Blue Bird Body Company
Post Office Box 937
Fort Valley, Georgia 31030

Dear Mr. Kinnett:

Enclosed is Air Quality Permit No. 3713-111-8601.

This Permit is being issued in accordance with Rule 391-3-1-.05, "Regulatory Exceptions. Amended" of the Georgia Rules for Air Quality Control.

Please note all of the attached conditions of this Permit.

If you have any questions, please contact Hai Chang at (404)656-4867.

Sincerely,

J. Leonard Ledbetter
Director

JLL:rmd
cc: Robert H. Collom, Jr.
Enclosure

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AIR QUALITY PERMIT

Permit No. 3713-111-8601

Effective Date
AUG 23 1983

In accordance with the provisions of Georgia's Air Quality Act of 1978 and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act,

BLUE BIRD BODY COMPANY, P.O. Box 937, Fort Valley, Georgia 31030

is issued a Permit for the following: The production of school buses and other similar type of vehicles. See attachment for specific operations permitted.

location: North Camellia Drive, Fort Valley, Georgia 31030

This Permit is conditioned upon compliance with all provisions of Georgia's Air Quality Act of 1978, the Rules, Chapter 391-3-1, adopted or in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the application(s) dated November 8, 1973 and August 26, 1981, supporting data entered therein or attached thereto, or any subsequent submittals or supporting data, or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are a part of this Permit.

J. Leonard Ledbetter
Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO. 3713-111-8601

General Requirements

1. The Permit to Operate No. 3713-111-4879-0 issued on July 20, 1976 and the Amendment to Permit No. 3713-111-4879-0 issued on October 21, 1981 are hereby revoked in their entirety.

2. The paint line operations shall comply with the following compliance schedule:

   A. Evaluation of product quality and commerical acceptance must be completed before October 1, 1982.

   B. Initiation of process modifications must begin before January 1, 1983.

   C. Process modifications must be completed and use of low solvent coatings must begin before September 1, 1983.

   D. Full compliance with applicable requirements of these Rules (Chapter 391-3-1) must be demonstrated before December 1, 1983. Specifically, sampling and chemical analyses of all solvent-based coatings using methods and procedures approved by the Division and specifically EPA Method 24, must be conducted to obtain, but not be limited to, VOC, solids and water content (both by volume and by weight), and specific gravity of each coating. Sampling results must be submitted before December 1, 1983.

   E. Permittee shall certify in writing, within five days after the date specified for each increment of progress, whether the required increment of progress has been met.

3. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall to the extent practicable maintain and operate this source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Monitoring Requirements

ATTACHMENT

4. Beginning September 1, 1983, the Permittee shall complete the Determination of Compliance form daily for the preceeding calendar day during which the paint lines were operated. Said records shall be maintained in file suitable and available for inspection. The file shall be retained for at least two (2) years following the date of entry.

5. The Division reserves the right to require additional sampling and chemical analyses to verify that compliance with Rule 391-3-1-.02(2)(ii) is being maintained. Line P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34

Allowable Emissions Line C1

6. The daily actual total emissions shall not exceed the daily allowable total emissions, as determined by the Determination of Compliance form for any day.

Notification, Reporting and Recordkeeping

7. The Permittee shall submit a written report of excess emissions, as determined from the Determination of Compliance form, for each calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. For each period of excess emissions, the Permittee shall identify the cause, the corrective actions taken and plans to prevent future occurrences.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO. 3713-111-8601

ATTACHMENT

Process	Source Code
Prime and Parts Line	PB1, PB2, PB3, PP1, PP2, PP3, PP4
Inside and Outside Body Line	P1, P2, P3, P4, P5, P6, P7, B1, B2, B3, B4
Chassis Preparation Line	C1
Final Repair Line	T1, T2
Undercoat Line	U
Arc and Wire Welding	4, 5
Grinding	6

(Actual VOC Emissions)

	lb VOC/ gallon coating less water (a)	By Volume % Solids (b)	% Solvent (c)	% Water (d)	lb VOC/ gallon solids (e)	Gallons Coating Applied/day (f)	Gallons Solids Applied/day (g)	lb VOC day (h)
1. Prime Line								
Primer					4.47			
2. Parts Line								
Seat Green	3.0				5.06			
Heater Green	3.0				5.06			
Interior Black	3.0				5.06			
Flat Black	3.0				5.06			
3. Inside Body Paint								
Seafoam Green	3.0				5.06			
4. Outside Body Paint								
Black	3.5				6.67			
Chrome Yellow	3.5				6.67			
Other Colors (Mixed)	3.5				6.67			
5. Undercoating								
Undercoat					6.67			
6. Chassis Preparation								
Chassis Black	3.5				6.67			
7. Final Repair								
All Colors (Mixed)	3.0				5.06			
Heater Green					5.06			
Seafoam Green					5.06			
Chrome Yellow					5.06			
Black	3.0				5.06			

Daily Actual Total Emissions:

Note: $a = \frac{D \times c}{100-d}$ D = density of solvent, for complying coating the average solvent density is 7.36 lb/gallon

$e = \frac{D \times c}{b}$ or $\frac{D \times a}{D - a}$

$g = b \times f \div 100$

$h = e \times g$

(Allowable VOC Emissions Using Compliance Coating)

	lb VOC/ gallon coating less water (a)	By Volume % Solids (b)	% Solvent (c)	% Water (d)	lb VOC/ gallon solids (e)	Gallons Coating Applied/day (f)	Gallons Solids Applied/day (g)	lb VOC day (h)
1. Prime Line								
Primer	3.5				6.67			
2. Parts Line								
Seat Green	3.0				5.06			
Heater Green	3.0				5.06			
Interior Black	3.0				5.06			
Flat Black	3.0				5.06			
3. Inside Body Paint								
Seafoam Green	3.0				5.06			
4. Outside Body Paint								
Black	3.5				6.67			
Chrome Yellow	3.5				6.67			
Other Colors (Mixed)	3.5				6.67			
5. Undercoating								
Undercoat	3.5				6.67			
6. Chassis Preparation								
Chassis Black	3.5				6.67			
7. Final Repair								
All Colors (Mixed)	3.0				5.06			
Heater Green	3.0				5.06			
Seafoam Green	3.0				5.06			
Chrome Yellow	3.0				5.06			
Black	3.0				5.06			
					Daily Allowable Total Emissions:			

Note: $a = \frac{D \times c}{100-d}$ D = density of solvent, for complying coating the average solvent density is 7.36 lb/gallon

$e = \frac{D \times c}{b}$ or $D - a$

$g = b \times f \div 100$

$h = e \times g$

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-033-5037-O

Effective Date Of Amendment
DEC 27 1995

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-033-5037-O issued on September 13, 1976 to:

GEORGIA POWER COMPANY
270 Peachtree Street
Atlanta, Georgia 30302

Facility location: Plant McDonough
Smryna, Cobb County, Georgia

for the following: Fossil fuel fired, Steam-Electric Generating Plant, Source 1 comprised of Units 1 and 2.

is hereby amended as follows: Conditions 10 through 22 are added as conditions of this Permit Amendment which supersedes the Amendment issued Nov. 15, 1994.

Reason for Amendment: To include conditions in the permit to comply with the NO_x RACT requirements of Georgia Rule 391-3-1-.02(2)(yy), "Nitrogen Oxide Emissions from Major Sources."

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-033-5037-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold D. Webb

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-5037-O

Allowable Emissions

10. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 1 (Coal-fired Units 1 and 2) NO_x emissions in excess of 0.45 lb/MMBtu heat input on an annual average basis.

11. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 1 NO_x emissions in excess of 0.45 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

12. The Permittee shall install, operate, and maintain low NO_x burners with close coupled overfire air on Units 1 and 2 as reasonably available control technology for controlling nitrogen oxides emissions.

Monitoring Requirements

13. The Permittee shall install, calibrate, maintain and operate a continuous emission monitoring system for the measurement of nitrogen oxide emissions discharged to the atmosphere and record the output of the system. Each system shall be evaluated by the Division's applicable performance specifications of the Division's monitoring requirement.

14. Any monitoring system installed by the Permittee shall be in continuous operation during periods when a fire is in the boiler except during calibration checks, linearity checks, zero and span adjustments, routine maintenance or periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

15. The Permittee shall maintain a Quality Assurance Plan which includes a spare parts inventory for any NO_x continuous monitoring system installed.

Notification, Reporting and Recordkeeping

16. The Permittee shall keep records of hourly NO_x emission rates (lb/MMBtu) and the annual average NO_x emission rate (lb/MMBtu). These emission rates shall be calculated in accordance with 40 CFR 75 Appendix F.

Notification, Reporting and Record Keeping

17. The Permittee shall keep records of the 30 day rolling average NO_x emission rates necessary to verify compliance with Condition 11. The 30 day rolling average shall be calculated as follows:

    a. The first 30 day averaging period shall begin on the first operating day of the ozone season.

    b. The 30 day average is the average of all the valid hourly NO_x emission data for the preceding 30 operating days during the ozone season.

    c. After the first 30 day average, a new 30 day rolling average shall be calculated after each operating day during the ozone season.

    d. The last 30 day averaging period shall end on the last operating day of the ozone season.

    e. For the purpose of this Permit, an operating day is a 24 hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for fuel to be combusted continuously for the entire 24 hour period..

18. The Permittee shall maintain records of the occurrence and duration of any malfunction or breakdown of the continuous monitoring and recording system required by Condition 13. The records shall include the cause of the malfunction or breakdown, the corrective actions taken, and the plans to prevent future occurrences.

19. The Permittee shall maintain a file of all calibration checks, adjustments, and maintenance performed on each continuous monitoring system required by Condition 13.

20. The records required by Conditions 16, 17, 18, and 19 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-5037-O

Notification, Reporting and Recordkeeping

21. The Permittee shall submit an annual report by January 30th of the year following the calendar year of record. The report shall be submitted in a manner suitable to the Division and contain the annual average NO_x emission rate (lb/MMBtu) and the total heat content of the fuel burned (MMBtu) for Source 1 for the year.

22. The Permittee shall submit a written report of excess emissions of NO_x from Source 1 for each calendar quarter of the ozone season. Excess emissions are defined as any calculated 30-day rolling average NO_x emissions rate which exceeds the limit established in Condition 11. If there are no excess emissions from this source the Permittee shall submit a report stating that no excess emissions occurred during the reporting period. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. No reports are required for calendar quarters which are not part of the ozone season.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-5037-O

Notification, Reporting and Recordkeeping

21. The Permittee shall submit an annual report by January 30th of the year following the calendar year of record. The report shall be submitted in a manner suitable to the Division and contain the annual average NO_x emission rate (lb/MMBtu) and the total heat content of the fuel burned (MMBtu) for Source 1 for the year.

22. The Permittee shall submit a written report of excess emissions of NO_x from Source 1 for each calendar quarter of the ozone season. Excess emissions are defined as any calculated 30-day rolling average NO_x emissions rate which exceeds the limit established in Condition 11. If there are no excess emissions from this source the Permittee shall submit a report stating that no excess emissions occurred during the reporting period. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. No reports are required for calendar quarters which are not part of the ozone season.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-038-4838-O

Effective Date Of Amendment
DEC 27 1995

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-038-4838-O issued on June 22, 1976 to:

GEORGIA POWER COMPANY
270 Peachtree Street
Atlanta, Georgia 30302

Facility location: Plant Yates
Coweta County, Georgia

for the following: Fossil fuel fired, Steam-Electric Generating Plant, Source 1 comprised of Units 1, 2, and 3 (Old Source 1 has been split into Source 1a comprised of Unit 1 and Source 1 comprised of Units 2 and 3).

is hereby amended as follows: Conditions 19 through 32 are added as conditions of this Permit Amendment which supersedes the Amendment issued Nov. 15, 1994.

Reason for Amendment: To include conditions in the permit to comply with the NO_x RACT requirements of Georgia Rule 391-3-1-.02(2)(yy), "Nitrogen Oxide Emissions from Major Sources."

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-038-4838-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold D. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-038-4838-0

Allowable Emissions

19. The Permittee shall not discharge or cause the discharge into the atmosphere from the Coal-fired Units at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) NO_x emissions in excess of 0.45 lb/MMBtu heat input on an annual average basis.

20. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 1a (Unit 1) NO_x emissions in excess of 0.58 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

21. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 1 (Units 2 and 3) NO_x emissions in excess of 0.57 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

22. The average of the allowable nitrogen oxides emission rates from Source 1a (Unit 1), Source 1 (Units 2 and 3), Source 2 (Units 4 and 5), Source 3 (Unit 6), and Source 4 (Unit 7) at Plant Yates, calculated as if all such units were operated at their maximum rated heat input capacity, shall not exceed .0.45 lb/MMBtu heat input. The Division may consider adjustments to the allowable nitrogen oxides emission rates specified in Condition 20 or 21 as long as the plant-wide average on a maximum capacity basis does not exceed 0.45 lb/MMBtu heat input.

Monitoring Requirements

23. The Permittee shall install, calibrate, maintain and operate a continuous emission monitoring system for the measurement of nitrogen oxide emissions discharged to the atmosphere and record the output of the system. Each system shall be evaluated by the Division's applicable performance specifications of the Division's monitoring requirement.

24. Any monitoring system installed by the Permittee shall be in continuous operation during periods when a fire is in the boiler except during calibration checks, linearity checks, zero and span adjustments, routine maintenance or periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

25. The Permittee shall maintain a Quality Assurance Plan which includes a spare parts inventory for any NO_x continuous monitoring system installed.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-038-4838-0

Allowable Emissions

19. The Permittee shall not discharge or cause the discharge into the atmosphere from the Coal-fired Units at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) NO_x emissions in excess of 0.45 lb/MMBtu heat input on an annual average basis.

20. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 1a (Unit 1) NO_x emissions in excess of 0.58 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

21. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 1 (Units 2 and 3) NO_x emissions in excess of 0.57 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

22. The average of the allowable nitrogen oxides emission rates from Source 1a (Unit 1), Source 1 (Units 2 and 3), Source 2 (Units 4 and 5), Source 3 (Unit 6), and Source 4 (Unit 7) at Plant Yates, calculated as if all such units were operated at their maximum rated heat input capacity, shall not exceed 0.45 lb/MMBtu heat input. The Division may consider adjustments to the allowable nitrogen oxides emission rates specified in Condition 20 or 21 as long as the plant-wide average on a maximum capacity basis does not exceed 0.45 lb/MMBtu heat input.

Monitoring Requirements

23. The Permittee shall install, calibrate, maintain and operate a continuous emission monitoring system for the measurement of nitrogen oxide emissions discharged to the atmosphere and record the output of the system. Each system shall be evaluated by the Division's applicable performance specifications of the Division's monitoring requirement.

24. Any monitoring system installed by the Permittee shall be in continuous operation during periods when a fire is in the boiler except during calibration checks, linearity checks, zero and span adjustments, routine maintenance or periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

25. The Permittee shall maintain a Quality Assurance Plan which includes a spare parts inventory for any NO_x continuous monitoring system installed.

Notification, Reporting and Recordkeeping

26. The Permittee shall keep records of hourly NO_x emission rates (lb/MMBtu), annual fuel heat input (MMBtu) and the annual average NO_x emission rate (lb/MMBtu) for each source. The hourly emission rates and annual average emission rates for each source shall be calculated in accordance with 40 CFR 75 Appendix F. The annual average NO_x emission rate for all Coal-fired Units shall be calculated as follows:

$$\text{Annual } NO_x \text{ Rate (Total)} = \frac{\sum_{S=1a}^{4} (\text{Annual } NO_x \text{ Rate}_s) \times (\text{Annual Heat Input}_s)}{\sum_{S=1a}^{4} (\text{Annual Heat Input}_s)}$$

Where S = the source (1a, 1, 2, 3, or 4).

27. The Permittee shall keep records of the 30 day rolling average NO_x emission rates necessary to verify compliance with Conditions 20 and 21. The 30 day rolling average shall be calculated as follows:

a. The first 30 day averaging period shall begin on the first operating day of the ozone season.

b. The 30 day average is the average of all the valid hourly NO_x emission data for the preceding 30 operating days during the ozone season.

c. After the first 30 day average, a new 30 day rolling average shall be calculated after each operating day during the ozone season.

d. The last 30 day averaging period shall end on the last operating day of the ozone season.

e. For the purpose of this Permit, an operating day is a 24 hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for fuel to be combusted continuously for the entire 24 hour period.

Notification, Reporting and Recordkeeping

26. The Permittee shall keep records of hourly NO_x emission rates (lb/MMBtu), annual fuel heat input (MMBtu) and the annual average NO_x emission rate (lb/MMBtu) for each source. The hourly emission rates and annual average emission rates for each source shall be calculated in accordance with 40 CFR 75 Appendix F. The annual average NO_x emission rate for all Coal-fired Units shall be calculated as follows:

$$\text{Annual } NO_x \text{ Rate (Total)} = \frac{\sum_{S=1a}^{4} (\text{Annual } NO_x \text{ Rate}_s) \times (\text{Annual Heat Input}_s)}{\sum_{S=1a}^{4} (\text{Annual Heat Input}_s)}$$

Where S = the source (1a, 1, 2, 3, or 4).

27. The Permittee shall keep records of the 30 day rolling average NO_x emission rates necessary to verify compliance with Conditions 20 and 21. The 30 day rolling average shall be calculated as follows:

a. The first 30 day averaging period shall begin on the first operating day of the ozone season.

b. The 30 day average is the average of all the valid hourly NO_x emission data for the preceding 30 operating days during the ozone season.

c. After the first 30 day average, a new 30 day rolling average shall be calculated after each operating day during the ozone season.

d. The last 30 day averaging period shall end on the last operating day of the ozone season.

e. For the purpose of this Permit, an operating day is a 24 hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for fuel to be combusted continuously for the entire 24 hour period.

Notification, Reporting and Recordkeeping

28. The Permittee shall maintain records of the occurrence and duration of any malfunction or breakdown of the continuous monitoring and recording system required by Condition 23. The records shall include the cause of the malfunction or breakdown, the corrective actions taken, and the plans to prevent future occurrences.

29. The Permittee shall maintain a file of all calibration checks, adjustments, and maintenance performed on each continuous monitoring system required by Condition 23.

30. The records required by Conditions 26, 27, 28, and 29 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

31. The Permittee shall submit an annual report by January 30th of the year following the calendar year of record. The report shall be submitted in a manner suitable to the Division and contain the annual average NO_x emission rate (lb/MMBtu) and the total heat input of the fuel burned (MMBtu) for each of the Coal-fired Sources at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) for the year. The report shall also contain the Annual NO_x Rate (Total) as described in Condition 26.

32. The Permittee shall submit a written report of excess emissions of NO_x from Source 1a and Source 1 for each calendar quarter of the ozone season. Excess emissions are defined as any calculated 30-day rolling average NO_x emissions rate which exceeds a limit established in Condition 20 or 21. If there are no excess emissions from the source the Permittee shall submit a report stating that no excess emissions occurred during the reporting period. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. No reports are required for calendar quarters which are not part of the ozone season.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-038-4839-O

Effective Date Of Amendment
DEC 27 1995

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-038-4839-O issued on June 22, 1976 to:

GEORGIA POWER COMPANY
270 Peachtree Street
Atlanta, Georgia 30302

Facility location: Plant Yates
Coweta County, Georgia

for the following: Fossil fuel fired, Steam-Electric Generating Plant, Source 2 comprised of Units 4 and 5.

is hereby amended as follows: Conditions 16 through 29 are added as conditions of this Permit Amendment which supersedes the Amendment issued Nov. 15, 1994.

Reason for Amendment: To include conditions in the permit to comply with the NO_x RACT requirements of Georgia Rule 391-3-1-.02(2)(yy), "Nitrogen Oxide Emissions from Major Sources."

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-038-4839-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-038-4839-O

Allowable Emissions

16. The Permittee shall not discharge or cause the discharge into the atmosphere from the Coal-fired Units at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) NO_x emissions in excess of 0.45 lb/MMBtu heat input on an annual average basis.

17. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 2 (Units 4 and 5) NO_x emissions in excess of 0.44 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

18. The average of the allowable nitrogen oxides emission rates from Source 1a (Unit 1), Source 1 (Units 2 and 3), Source 2 (Units 4 and 5), Source 3 (Unit 6), and Source 4 (Unit 7) at Plant Yates, calculated as if all such units were operated at their maximum rated heat input capacity, shall not exceed 0.45 lb/MMBtu heat input. The Division may consider adjustments to the allowable nitrogen oxides emission rate specified in Condition 17 as long as the plant-wide average on a maximum capacity basis does not exceed 0.45 lb/MMBtu heat input.

19. The Permittee shall install, operate, and maintain the following reasonably available control technology for controlling nitrogen oxides emissions from Units 4 and 5:

    a. Low NO_x FAN burners on Unit 4.

    b. Low NO_x burners and close-coupled overfire air on Unit 5.

Monitoring Requirements

20. The Permittee shall install, calibrate, maintain and operate a continuous emission monitoring system for the measurement of nitrogen oxide emissions discharged to the atmosphere and record the output of the system. Each system shall be evaluated by the Division's applicable performance specifications of the Division's monitoring requirement.

21. Any monitoring system installed by the Permittee shall be in continuous operation during periods when a fire is in the boiler except during calibration checks, linearity checks, zero and span adjustments, routine maintenance or periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

Monitoring Requirements

22. The Permittee shall maintain a Quality Assurance Plan which includes a spare parts inventory for any NO_x continuous monitoring system installed.

Notification, Reporting and Recordkeeping

23. The Permittee shall keep records of hourly NO_x emission rates (lb/MMBtu), annual fuel heat input (MMBtu) and the annual average NO_x emission rate (lb/MMBtu) for each source. The hourly emission rates and annual average emission rates for each source shall be calculated in accordance with 40 CFR 75 Appendix F. The annual average NO_x emission rate for all Coal-fired Units shall be calculated as follows:

$$\text{Annual } NO_x \text{ Rate (Total)} = \frac{\sum_{S=1a}^{4} (\text{Annual } NO_x \text{ Rate}_s) \times (\text{Annual Heat Input}_s)}{\sum_{S=1a}^{4} (\text{Annual Heat Input}_s)}$$

Where S = the source (1a, 1, 2, 3, or 4).

24. The Permittee shall keep records of the 30 day rolling average NO_x emission rates necessary to verify compliance with Condition 17. The 30 day rolling average shall be calculated as follows:

a. The first 30 day averaging period shall begin on the first operating day of the ozone season.

b. The 30 day average is the average of all the valid hourly NO_x emission data for the preceding 30 operating days during the ozone season.

c. After the first 30 day average, a new 30 day rolling average shall be calculated after each operating day during the ozone season.

d. The last 30 day averaging period shall end on the last operating day of the ozone season.

Notification, Reporting and Recordkeeping

24.(cont.)

e. For the purpose of this Permit, an operating day is a 24 hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for fuel to be combusted continuously for the entire 24 hour period.

25. The Permittee shall maintain records of the occurrence and duration of any malfunction or breakdown of the continuous monitoring and recording system required by Condition 20. The records shall include the cause of the malfunction or breakdown, the corrective actions taken, and the plans to prevent future occurrences.

26. The Permittee shall maintain a file of all calibration checks, adjustments, and maintenance performed on each continuous monitoring system required by Condition 20.

27. The records required by Conditions 23, 24, 25, and 26 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

28. The Permittee shall submit an annual report by January 30th of the year following the calendar year of record. The report shall be submitted in a manner suitable to the Division and contain the annual average NO_x emission rate (lb/MMBtu) and the total heat input of the fuel burned (MMBtu) for each of the Coal-fired Sources at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) for the year. The report shall also contain the Annual NO_x Rate (Total) as described in Condition 23.

29. The Permittee shall submit a written report of excess emissions of NO_x from Source 2 for each calendar quarter of the ozone season. Excess emissions are defined as any calculated 30-day rolling average NO_x emissions rate which exceeds the limit established in Condition 17. If there are no excess emissions from the source the Permittee shall submit a report stating that no excess emissions occurred during the reporting period. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. No reports are required for calendar quarters which are not part of the ozone season.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-038-4840-O

Effective Date Of Amendment
DEC 27 1995

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-038-4840-O issued on June 22, 1976 to:

GEORGIA POWER COMPANY
270 Peachtree Street
Atlanta, Georgia 30302

Facility location: Plant Yates
Coweta County, Georgia

for the following: Fossil fuel fired, Steam-Electric Generating Plant, Source 3 comprised of Unit 6.

is hereby amended as follows: Conditions 16 through 29 are added as conditions of this Permit Amendment which supersedes the Amendment issued Nov. 15, 1994.

Reason for Amendment: To include conditions in the permit to comply with the NO_x RACT requirements of Georgia Rule 391-3-1-.02(2)(yy), "Nitrogen Oxide Emissions from Major Sources."

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-038-4840-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-038-4840-O

Allowable Emissions

16. The Permittee shall not discharge or cause the discharge into the atmosphere from the Coal-fired Units at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) NO_x emissions in excess of 0.45 lb/MMBtu heat input on an annual average basis.

17. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 3 (Unit 6) NO_x emissions in excess of 0.39 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

18. The average of the allowable nitrogen oxides emission rates from Source 1a (Unit 1), Source 1 (Units 2 and 3), Source 2 (Units 4 and 5), Source 3 (Unit 6), and Source 4 (Unit 7) at Plant Yates, calculated as if all such units were operated at their maximum rated heat input capacity, shall not exceed 0.45 lb/MMBtu heat input. The Division may consider adjustments to the allowable nitrogen oxides emission rate specified in Condition 17 as long as the plant-wide average on a maximum capacity basis does not exceed 0.45 lb/MMBtu heat input.

19. The Permittee shall install, operate, and maintain a low NO_x cocentric firing system with separated overfire air on Unit 6 as reasonably available control technology for controlling nitrogen oxides emissions.

Monitoring Requirements

20. The Permittee shall install, calibrate, maintain and operate a continuous emission monitoring system for the measurement of nitrogen oxide emissions discharged to the atmosphere and record the output of the system. Each system shall be evaluated by the Division's applicable performance specifications of the Division's monitoring requirement.

21. Any monitoring system installed by the Permittee shall be in continuous operation during periods when a fire is in the boiler except during calibration checks, linearity checks, zero and span adjustments, routine maintenance or periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

Monitoring Requirements

22. The Permittee shall maintain a Quality Assurance Plan which includes a spare parts inventory for any NO_x continuous monitoring system installed.

Notification, Reporting and Recordkeeping

23. The Permittee shall keep records of hourly NO_x emission rates (lb/MMBtu), annual fuel heat input (MMBtu) and the annual average NO_x emission rate (lb/MMBtu) for each source. The hourly emission rates and annual average emission rates for each source shall be calculated in accordance with 40 CFR 75 Appendix F. The annual average NO_x emission rate for all Coal-fired Units shall be calculated as follows:

$$\text{Annual } NO_x \text{ Rate (Total)} = \frac{\sum_{S=1a}^{4} (\text{Annual } NO_x \text{ Rate}_S) \times (\text{Annual Heat Input}_S)}{\sum_{S=1a}^{4} (\text{Annual Heat Input}_S)}$$

Where S = the source (1a, 1, 2, 3, or 4).

24. The Permittee shall keep records of the 30 day rolling average NO_x emission rates necessary to verify compliance with Condition 17. The 30 day rolling average shall be calculated as follows:

a. The first 30 day averaging period shall begin on the first operating day of the ozone season.

b. The 30 day average is the average of all the valid hourly NO_x emission data for the preceding 30 operating days during the ozone season.

c. After the first 30 day average, a new 30 day rolling average shall be calculated after each operating day during the ozone season.

d. The last 30 day averaging period shall end on the last operating day of the ozone season.

Notification, Reporting and Recordkeeping

24.(cont.)

e. For the purpose of this Permit, an operating day is a 24 hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for fuel to be combusted continuously for the entire 24 hour period.

25. The Permittee shall maintain records of the occurrence and duration of any malfunction or breakdown of the continuous monitoring and recording system required by Condition 20. The records shall include the cause of the malfunction or breakdown, the corrective actions taken, and the plans to prevent future occurrences.

26. The Permittee shall maintain a file of all calibration checks, adjustments, and maintenance performed on each continuous monitoring system required by Condition 20.

27. The records required by Conditions 23, 24, 25, and 26 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

28. The Permittee shall submit an annual report by January 30th of the year following the calendar year of record. The report shall be submitted in a manner suitable to the Division and contain the annual average NO_X emission rate (lb/MMBtu) and the total heat input of the fuel burned (MMBtu) for each of the Coal-fired Sources at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) for the year. The report shall also contain the Annual NO_X Rate (Total) as described in Condition 23.

29. The Permittee shall submit a written report of excess emissions of NO_X from Source 3 for each calendar quarter of the ozone season. Excess emissions are defined as any calculated 30-day rolling average NO_X emissions rate which exceeds the limit established in Condition 17. If there are no excess emissions from the source the Permittee shall submit a report stating that no excess emissions occurred during the reporting period. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. No reports are required for calendar quarters which are not part of the ozone season.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-038-4841-O

Effective Date Of Amendment
DEC 27 1995

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-038-4841-O issued on June 22, 1976 to:

GEORGIA POWER COMPANY
270 Peachtree Street
Atlanta, Georgia 30302

Facility location: Plant Yates
Coweta County, Georgia

for the following: Fossil fuel fired, Steam-Electric Generating Plant, Source 4 comprised of Unit 7.

is hereby amended as follows: Conditions 16 through 29 are added as conditions of this Permit Amendment which supersedes the Amendment issued Nov. 15, 1994.

Reason for Amendment: To include conditions in the permit to comply with the NO_x RACT requirements of Georgia Rule 391-3-1-.02(2)(yy), "Nitrogen Oxide Emissions from Major Sources."

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-038-4841-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-038-4841-O

Allowable Emissions

16. The Permittee shall not discharge or cause the discharge into the atmosphere from the Coal-fired Units at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) NO_x emissions in excess of 0.45 lb/MMBtu heat input on an annual average basis.

17. The Permittee shall not discharge or cause the discharge into the atmosphere from Source 4 (Unit 7) NO_x emissions in excess of 0.39 lb/MMBtu of heat input on a 30 day rolling averaging period during the ozone season.

18. The average of the allowable nitrogen oxides emission rates from Source 1a (Unit 1), Source 1 (Units 2 and 3), Source 2 (Units 4 and 5), Source 3 (Unit 6), and Source 4 (Unit 7) at Plant Yates, calculated as if all such units were operated at their maximum rated heat input capacity, shall not exceed 0.45 lb/MMBtu heat input. The Division may consider adjustments to the allowable nitrogen oxides emission rate specified in Condition 17 as long as the plant-wide average on a maximum capacity basis does not exceed 0.45 lb/MMBtu heat input.

19. The Permittee shall install, operate, and maintain a low NO_x cocentric firing system with separated overfire air on Unit 7 as reasonably available control technology for controlling nitrogen oxides emissions.

Monitoring Requirements

20. The Permittee shall install, calibrate, maintain and operate a continuous emission monitoring system for the measurement of nitrogen oxide emissions discharged to the atmosphere and record the output of the system. Each system shall be evaluated by the Division's applicable performance specifications of the Division's monitoring requirement.

21. Any monitoring system installed by the Permittee shall be in continuous operation during periods when a fire is in the boiler except during calibration checks, linearity checks, zero and span adjustments, routine maintenance or periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

Monitoring Requirements

22. The Permittee shall maintain a Quality Assurance Plan which includes a spare parts inventory for any NO_X continuous monitoring system installed.

Notification, Reporting and Recordkeeping

23. The Permittee shall keep records of hourly NO_X emission rates (lb/MMBtu), annual fuel heat input (MMBtu) and the annual average NO_X emission rate (lb/MMBtu) for each source. The hourly emission rates and annual average emission rates for each source shall be calculated in accordance with 40 CFR 75 Appendix F. The annual average NO_X emission rate for all Coal-fired Units shall be calculated as follows:

$$\text{Annual } NO_X \text{ Rate (Total)} = \frac{\sum_{S=1a}^{4} (\text{Annual } NO_X \text{ Rate}_S) \times (\text{Annual Heat Input}_S)}{\sum_{S=1a}^{4} (\text{Annual Heat Input}_S)}$$

Where S = the source (1a, 1, 2, 3, or 4).

24. The Permittee shall keep records of the 30 day rolling average NO_X emission rates necessary to verify compliance with Condition 17. The 30 day rolling average shall be calculated as follows:

a. The first 30 day averaging period shall begin on the first operating day of the ozone season.

b. The 30 day average is the average of all the valid hourly NO_X emission data for the preceding 30 operating days during the ozone season.

c. After the first 30 day average, a new 30 day rolling average shall be calculated after each operating day during the ozone season.

d. The last 30 day averaging period shall end on the last operating day of the ozone season.

Notification, Reporting and Recordkeeping

24.(cont.)

e. For the purpose of this Permit, an operating day is a 24 hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for fuel to be combusted continuously for the entire 24 hour period.

25. The Permittee shall maintain records of the occurrence and duration of any malfunction or breakdown of the continuous monitoring and recording system required by Condition 20. The records shall include the cause of the malfunction or breakdown, the corrective actions taken, and the plans to prevent future occurrences.

26. The Permittee shall maintain a file of all calibration checks, adjustments, and maintenance performed on each continuous monitoring system required by Condition 20.

27. The records required by Conditions 23, 24, 25, and 26 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

28. The Permittee shall submit an annual report by January 30th of the year following the calendar year of record. The report shall be submitted in a manner suitable to the Division and contain the annual average NO_x emission rate (lb/MMBtu) and the total heat input of the fuel burned (MMBtu) for each of the Coal-fired Sources at Plant Yates (Sources 1a, 1, 2, 3, and 4 comprised of Units 1-7) for the year. The report shall also contain the Annual NO_x Rate (Total) as described in Condition 23.

29. The Permittee shall submit a written report of excess emissions of NO_x from Source 4 for each calendar quarter of the ozone season. Excess emissions are defined as any calculated 30-day rolling average NO_x emissions rate which exceeds the limit established in Condition 17. If there are no excess emissions from the source the Permittee shall submit a report stating that no excess emissions occurred during the reporting period. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. No reports are required for calendar quarters which are not part of the ozone season.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-033-1319-O

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-033-1319-O issued on October 24, 1974, to:

GEORGIA POWER COMPANY
270 Peachtree Street, Atlanta, Georgia 30302

Facility location: Plant Atkinson
Smyrna, Cobb County, Georgia

for the following: Natural gas or number 2 fuel oil fired, Steam-Electric Generating Plant, Unit 1 at **PLANT ATKINSON.**

is hereby amended as follows: Conditions 8 through 13 are added as conditions of this Permit.

Reason for Amendment: To incorporate limits necessary to insure compliance with the NOx RACT requirements of Rule 391-3-1-.02(2)(yy).

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 1 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-033-1319-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-1319-O

Allowable Emissions

8. The Permittee shall fire natural gas exclusively, except for periods of flame stabilization and startup, in Unit 1 during the months of May through September. This practice shall be deemed reasonably available control technology for controlling nitrogen oxides emissions.

9. The Permittee shall limit the operation of the Plant Atkinson boiler units such that the total hours of operation of all Atkinson boiler units during any given calendar year during the period from May 1 through September 30 is not greater than 3600 hours.

10. The Permittee shall conduct a test on the effects of boiler maintenance and adjustments on nitrogen oxides emissions from any one or more of the units at Plant Atkinson while burning natural gas. Tests shall be conducted using methods approved by the Division. A report of the results shall be submitted to the Division no later than July 31, 1995. Results of this report shall be used to determine the necessity of required periodic maintenance and adjustments to control nitrogen oxides emissions from Units 1 through 4 at Plant Atkinson.

Notification, Reporting and Recordkeeping

11. The Permittee shall record the hours of operation and type of fuel used on a daily basis for each boiler during the months of May through September inclusively.

12. The Permittee shall maintain a file of the adjustments and maintenance performed on the boiler pursuant to Condition 10 above.

13. The records required by Conditions 8 and 9 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-033-1320-O

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-033-1320-O issued on October 24, 1974, to:

GEORGIA POWER COMPANY
270 Peachtree Street, Atlanta, Georgia 30302

Facility location: Plant Atkinson
Smyrna, Cobb County, Georgia

for the following: Natural gas or number 2 fuel oil fired, Steam-Electric Generating Plant, Unit 2 at **PLANT ATKINSON.**

is hereby amended as follows: Conditions 8 through 13 are added as conditions of this Permit.

Reason for Amendment: To incorporate limits necessary to insure compliance with the NOx RACT requirements of Rule 391-3-1-.02(2)(yy).

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 1 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-033-1320-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-1320-O

Allowable Emissions

8. The Permittee shall fire natural gas exclusively, except for periods of flame stabilization and startup, in Unit 2 during the months of May through September. This practice shall be deemed reasonably available control technology for controlling nitrogen oxides emissions.

9. The Permittee shall limit the operation of the Plant Atkinson boiler units such that the total hours of operation of all Atkinson boiler units during any given calendar year during the period from May 1 through September 30 is not greater than 3600 hours.

10. The Permittee shall conduct a test on the effects of boiler maintenance and adjustments on nitrogen oxides emissions from any one or more of the units at Plant Atkinson while burning natural gas. Tests shall be conducted using methods approved by the Division. A report of the results shall be submitted to the Division no later than July 31, 1995. Results of this report shall be used to determine the necessity of required periodic maintenance and adjustments to control nitrogen oxides emissions from Units 1 through 4 at Plant Atkinson.

Notification, Reporting and Recordkeeping

11. The Permittee shall record the hours of operation and type of fuel used on a daily basis for each boiler during the months of May through September inclusively.

12. The Permittee shall maintain a file of the adjustments and maintenance performed on the boiler pursuant to Condition 10 above.

13. The records required by Conditions 8 and 9 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-033-1321-O

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-033-1321-O issued on October 24, 1974, to:

GEORGIA POWER COMPANY
270 Peachtree Street, Atlanta, Georgia 30302

Facility location: Plant Atkinson
Smyrna, Cobb County, Georgia

for the following: Natural gas or number 2 fuel oil fired, Steam-Electric Generating Plant, Unit 3 at **PLANT ATKINSON.**

is hereby amended as follows: Conditions 8 through 13 are added as conditions of this Permit.

Reason for Amendment: To incorporate limits necessary to insure compliance with the NOx RACT requirements of Rule 391-3-1-.02(2)(yy).

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 1 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-033-1321-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-1321-O

Allowable Emissions

8. The Permittee shall fire natural gas exclusively, except for periods of flame stabilization and startup, in Unit 3 during the months of May through September. This practice shall be deemed reasonably available control technology for controlling nitrogen oxides emissions.

9. The Permittee shall limit the operation of the Plant Atkinson boiler units such that the total hours of operation of all Atkinson boiler units during any given calendar year during the period from May 1 through September 30 is not greater than 3600 hours.

10. The Permittee shall conduct a test on the effects of boiler maintenance and adjustments on nitrogen oxides emissions from any one or more of the units at Plant Atkinson while burning natural gas. Tests shall be conducted using methods approved by the Division. A report of the results shall be submitted to the Division no later than July 31, 1995. Results of this report shall be used to determine the necessity of required periodic maintenance and adjustments to control nitrogen oxides emissions from Units 1 through 4 at Plant Atkinson.

Notification, Reporting and Recordkeeping

11. The Permittee shall record the hours of operation and type of fuel used on a daily basis for each boiler during the months of May through September inclusively.

12. The Permittee shall maintain a file of the adjustments and maintenance performed on the boiler pursuant to Condition 10 above.

13. The records required by Conditions 8 and 9 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-033-1322-O

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-033-1322-O issued on October 24, 1974, to:

GEORGIA POWER COMPANY
270 Peachtree Street, Atlanta, Georgia 30302

Facility location: Plant Atkinson
Smyrna, Cobb County, Georgia

for the following: Natural gas or number 2 fuel oil fired, Steam-Electric Generating Plant, Unit 4 at **PLANT ATKINSON.**

is hereby amended as follows: Conditions 8 through 13 are added as conditions of this Permit.

Reason for Amendment: To incorporate limits necessary to insure compliance with the NOx RACT requirements of Rule 391-3-1-.02(2)(yy).

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 1 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-033-1322-O and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold Aldhen

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-1322-O

Allowable Emissions

8. The Permittee shall fire natural gas exclusively, except for periods of flame stabilization and startup, in Unit 4 during the months of May through September. This practice shall be deemed reasonably available control technology for controlling nitrogen oxides emissions.

9. The Permittee shall limit the operation of the Plant Atkinson boiler units such that the total hours of operation of all Atkinson boiler units during any given calendar year during the period from May 1 through September 30 is not greater than 3600 hours.

10. The Permittee shall conduct a test on the effects of boiler maintenance and adjustments on nitrogen oxides emissions from any one or more of the units at Plant Atkinson while burning natural gas. Tests shall be conducted using methods approved by the Division. A report of the results shall be submitted to the Division no later than July 31, 1995. Results of this report shall be used to determine the necessity of required periodic maintenance and adjustments to control nitrogen oxides emissions from Units 1 through 4 at Plant Atkinson.

Notification, Reporting and Recordkeeping

11. The Permittee shall record the hours of operation and type of fuel used on a daily basis for each boiler during the months of May through September inclusively.

12. The Permittee shall maintain a file of the adjustments and maintenance performed on the boiler pursuant to Condition 10 above.

13. The records required by Conditions 8 and 9 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-033-6949

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-033-6949 issued on January 26, 1982, to:

GEORGIA POWER COMPANY
270 Peachtree Street, Atlanta, Georgia 30302

Facility location: Plant Atkinson, Cobb County, Georgia

for the following: Four (4) natural gas and distillate fuel oil fired combustion turbines designated Sources 6, 7, 8, and 9.

is hereby amended as follows: Conditions 5 through 10 are added as conditions of this Permit.

Reason for Amendment: To incorporate limits necessary to insure compliance with the NOx RACT requirements of Rule 391-3-1-.02(2)(yy).

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 1 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-033-6949 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-6949

Allowable Emissions

5. The Permittee shall fire natural gas exclusively in the combustion turbines at Plant Atkinson during the months of May through September. This practice shall be deemed reasonably available control technology for controlling nitrogen oxides emissions.

6. The Permittee shall limit the operation of the combustion turbines at Plant Atkinson such that the total hours of operation of all combustion turbines during any given calendar year during the period from May 1 through September 30 is not greater than 2000 hours. Any increased operation of the combustion turbines necessitated by the increased load due to activities associated with the 1996 Summer Olympic Games shall be excluded from the total hours of operation for that year for purposes of determining compliance with this condition.

7. The Permittee shall perform maintenance on the combustion turbines according to the following schedule so as to minimize nitrogen oxides emissions:

   a. Adjust engine air/fuel mix as necessary according to manufacturer's specifications.

   b. Chemically wash the engine fuel system anytime excessive flame spread occurs.

   c. Clean or change all engine and fuel filters as needed.

   d. Inspect and wash compressor as unit performance necessitates.

Notification, Reporting and Recordkeeping

8. The Permittee shall record the hours of operation and type of fuel used on a daily basis for each combustion turbine during the months of May through September inclusively.

9. The Permittee shall maintain a file containing the adjustments and maintenance performed on each combustion turbine and the manufacturer's specifications pursuant to Condition 7 above.

10. The records required by Conditions 8 and 9 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4911-033-6951

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4911-033-6951 issued on January 26, 1982, to:

GEORGIA POWER COMPANY
270 Peachtree Street, Atlanta, Georgia 30302

Facility location: Plant McDonough, Cobb County, Georgia

for the following: Four (4) natural gas and distillate fuel oil fired combustion turbines designated Sources 5, 6, 7, and 8.

is hereby amended as follows: Conditions 5 through 10 are added as conditions of this Permit.

Reason for Amendment: To incorporate limits necessary to insure compliance with the NOx RACT requirements of Rule 391-3-1-.02(2)(yy).

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 1 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4911-033-6951 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4911-033-6951

Allowable Emissions

5. The Permittee shall fire natural gas exclusively in the combustion turbines at Plant McDonough during the months of May through September. This practice shall be deemed reasonably available control technology for controlling nitrogen oxides emissions.

6. The Permittee shall limit the operation of the combustion turbines at Plant McDonough such that the total hours of operation of all combustion turbines during any given calendar year during the period from May 1 through September 30 is not greater than 2000 hours. Any increased operation of the combustion turbines necessitated by the increased load due to activities associated with the 1996 Summer Olympic Games shall be excluded from the total hours of operation for that year for purposes of determining compliance with this condition.

7. The Permittee shall perform maintenance on the combustion turbines according to the following schedule so as to minimize nitrogen oxides emissions:

   a. Adjust engine air/fuel mix as necessary according to manufacturer's specifications.

   b. Chemically wash the engine fuel system anytime excessive flame spread occurs.

   c. Clean or change all engine and fuel filters as needed.

   d. Inspect and wash compressor as unit performance necessitates.

Notification, Reporting and Recordkeeping

8. The Permittee shall record the hours of operation and type of fuel used on a daily basis for each combustion turbine during the months of May through September inclusively.

9. The Permittee shall maintain a file containing the adjustments and maintenance performed on each combustion turbine and the manufacturer's specifications pursuant to Condition 7 above.

10. The records required by Conditions 8 and 9 shall be retained for at least two years after the date of record. The records shall be available for inspection and/or submittal to the Division upon request.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
4922-028-10902

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4922-028-10902 issued on January 10, 1992, to:

ATLANTA GAS LIGHT COMPANY
P.O. Box 4569
Atlanta, Georgia 30302

Facility location: 14383 East Cherokee Drive
Ball Ground, Georgia 30107
Cherokee County

for the following: Operation of a natural gas liquefaction/vaporization/distribution facility including the equipment listed in Attachment A.

is hereby amended as follows: Authorization granted for construction and operation of appropriate RACT (reasonably available control technology) systems for controlling nitrogen oxide emissions from the subject fuel burning equipment (list attached).

Reason for Amendment: To incorporate the requirements of Georgia Air Quality Control Rule 391-3-1-.02(2)(yy) into the existing Permit.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached page, which page is part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4922-028-10902 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold D Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4922-028-10902

Allowable Emissions

20. The Permittee shall not discharge or cause the discharge into the atmosphere nitrogen oxide (NO_x) emissions in excess of 139 parts per million volume, corrected to 15% oxygen on a dry basis from the following fuel-burning equipment.

Generators	Source Codes:	G1A, G1B, G1C and G1D
Boil-off Compressors	Source Codes:	C1 and C2

21. The Permittee shall complete construction of emission control systems and/or modification of the subject fuel-burning equipment to meet the emission limit of Condition No. 20 by May 31, 1995.

~~22. The Permittee shall demonstrate full compliance with the provisions of this Amendment and Rule 391-3-1-.02(2)(yy) before July 31, 1995~~

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No. 4922-031-10912

Effective Date Of Amendment NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 4922-031-10912 issued on March 9, 1992, to:

ATLANTA GAS LIGHT COMPANY
P.O. Box 4569
Atlanta, Georgia 30302

Facility location: 7790 Highway 85
Riverdale, Georgia 30274
Clayton County

for the following: Operation of natural gas and propane liquefaction/ vaporization/distribution facilities including the equipment listed in Attachment A.

is hereby amended as follows: Authorization granted for construction and operation of appropriate RACT (reasonably available control technology) systems for controlling nitrogen oxide emissions from the subject fuel burning equipment (list attached).

Reason for Amendment: To incorporate the requirements of Georgia Air Quality Control Rule 391-3-1-.02(2)(yy) into the existing Permit.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached page, which page is part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 4922-031-10912 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 4922-031-10912

Allowable Emissions

27. The Permittee shall not discharge or cause the discharge into the atmosphere nitrogen oxide (NO_X) emissions in excess of 139 parts per million volume, corrected to 15% oxygen on a dry basis from the following fuel-burning equipment.

LNG Plant		
Generators	Source Codes:	G1, G2 and G3
Boil-off Compressors	Source Codes:	BO-A and BO-B
Propane-Air Plant		
Regenerative Compressors	Source Codes:	C6 and C7

28. The Permittee shall complete construction of emission control systems and/or modification of the subject fuel-burning equipment to meet the emission limit of Condition No. 27 by May 31, 1995.

~~29. The Permittee shall demonstrate full compliance with the provisions of this Amendment and Rule 391-3-1-.02(2)(yy) before July 31, 1995.~~

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AIR QUALITY PERMIT

Permit No.
2631-033-11436

Effective Date
NOV 15 1994

In accordance with the provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act,

AUSTELL BOX BOARD CORP.
P.O. Box 157
Austell, Georgia 30001

is issued a Permit for the following: Modified operation of the following equipment: a 92 MMBTU/hr boiler in Sweetwater Mill, a 78 MMBTU/hr boiler in Mill 2, three boilers in Mill 1 (36, 31 and 23 MMBTU/hr), a direct fired air heater in Sweetwater Mill, and a diesel fueled pump for emergency firefighting.

Facility location: 3100 Washington Street
Austell, Georgia
Cobb County

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted or in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the application(s) dated December 23, 1993, supporting data entered therein or attached thereto, or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached one (1) page(s), which page(s) are a part of this Permit.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO. 2631-033-11436 PAGE 1 OF 1

Process and Control Equipment

1. The Permittee shall cause to have conducted tuneups on the following package boilers by no later than September 1, 1994 for the purpose of minimizing NO_x emissions from such boilers:

   Mill 1- 36 MMBTU/hr boiler
   31 MMBTU/hr boiler
   23 MMBTU/hr boiler

   Mill 2- 78 MMBTU/hr boiler

   Sweetwater Mill- 92 MMBTU/hr boiler

   Thereafter, tuneups on each of the boilers listed above shall be conducted at approximately 36 month intervals. Each of these boilers is to be operated on a standby basis only, when sufficient steam can not be supplied by the coal fired boiler.

2. The Permittee shall cause to be constructed a valve stop on the gas inlet to the direct fired air heater in the Sweetwater Mill. The valve stop shall physically restrain the heat input of natural gas to no greater than 16 MMBTU/hr.

3. The Permittee shall install, calibrate operate and maintain a timer on the diesel fired emergency firewater pump motor. The timer shall indicate the cumulative hours of operation the emergency firewater pump motor.

Notification, Reporting and Record Keeping

4. On the last day of each calendar month, the Permittee shall measure and record the total cumulative hours of operation of the diesel fired emergency firewater pump motor. By the difference in the current value and the previous month's reading, the Permittee shall calculate and record the number of hours of operation for that month. Said records shall be maintained in a permanent form, suitable and available for suitable for inspection by the Division, and shall be retained for at least two years from the date of entry.

Special Conditions

5. The Permittee shall not cause, suffer, permit or allow operation of the diesel fired emergency firewater pump motor to exceed 380 hours during any 12 consecutive months.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No. 8922-044-10094

Effective Date Of Amendment NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 8922-004-10094 issued on January 24, 1989, to:

EMORY UNIVERSITY
Physical Plant Department
638 Asbury Circle
Atlanta, Georgia 30322

Facility location: 638 Asbury Circle
Atlanta, Georgia 30322
DeKalb County

for the following: Operation of two boilers, No. 5 and 6 burning natural gas or No. 2 fuel oil. Construction and operation of two boilers, No. 7 and 8 burning natural gas or No. 2 fuel oil.

is hereby amended as follows: Authorization granted for construction and operation of appropriate RACT (reasonably available control technology) systems for controlling nitrogen oxide emissions from the subject fuel burning equipment.

Reason for Amendment: To incorporate the requirements of Georgia Air Quality Control Rule 391-3-1-.02(2)(yy) into the existing Permit.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 2 pages, which pages are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 8922-044-10094 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 8922-044-10094

Performance Testing

19. Within 90 days of issuance of this Amendment, the Permittee shall conduct a nitrogen oxide (NO_X) performance test on either boiler No. 5 or 6 while firing natural gas to determine a representative NO_X emission rate. If the emission rate demonstrated is greater than 0.20 pounds per million Btu heat input, the Permittee shall tune the boiler to reduce NO_X emissions as much as reasonably possible.

20. Within 30 days after the performance test, the Permittee shall submit to the Division the full test report and results. Copies of the daily record of operating parameters and the output data from the monitoring systems and devices shall be submitted with the test report for each day of testing. A description and schedule of any tuning methods and adjustments made to the boiler to reduce emissions NO_X during the test shall be included in the report.

21. The Permittee shall provide the Division thirty (30) days prior written notice of the date of this performance test to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.

22. All continuous monitoring and recording systems for boiler operation shall be installed, calibrated and operating when the performance test is conducted.

Allowable Emissions

23. The Permittee shall burn natural gas exclusively in boilers No. 7 and 8 during the months of May through September and shall limit the NO_X emission from the boilers during such period to no more than 0.2 pounds per million Btu heat input.

24. The Permittee shall employ and maintain on boilers No. 5 and 6 the tuning methods and adjustments demonstrated during the performance test required by condition No. 19 which were determined to effect a reasonable reduction in the emission of NO_X.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 8922-044-10094

25. The Permittee shall at all times preferentially operate boilers No. 7 and 8 in lieu of operating boilers No. 5 and 6. Boilers No. 5 and 6 shall burn natural gas exclusively during the months of May through September. Boilers No. 5 and 6 shall be used primarily for emergency backup in the case of malfunction or unplanned maintenance and down time of boilers No. 7 and 8, and as peaking units during this period.

26. The Permittee shall, to the extent possible, schedule and conduct all down time (i.e., preventative maintenance, repairs, inspections, etc.) for boilers No. 7 and 8 during the months of October through April.

~~27. The Permittee shall demonstrate full compliance with the provisions of this Amendment and Rule 391-3-1-.02(2)(yy) before July 31, 1995~~

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AIR QUALITY PERMIT

Permit No.
3711-044-11453

Effective Date
NOV 15 1994

In accordance with the provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act,

General Motors Corporation - Doraville Plant
3900 Motors Industrial Way
Doraville, Georgia 30360

is issued a Permit for the following: The operation of NOx emitting fuel burning equipment listed on Attachment A.

Facility location: GM Doraville Assembly Plant
Doraville, Georgia
DeKalb County

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted or in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the application(s) and GM's NOx RACT Demonstration dated November 5, 1993 (DOEE 93-147) and August 31, 1993 (DOEE 93-124) entered therein or attached thereto, or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached two page(s), which page(s) are a part of this Permit.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO.
3711-044-11453

ATTACHMENT A

UNIT MANUFACTURER	MODEL #	INPUT MMBTU/HR	OUTPUT MMBTU/HR	INPUT MCF/HR	QTY	USES
CLEAVER-BROOKS BOILERS	CB200-600	25.106		24.375	3	ELPO BOILERS
STONE-JOHNSTON BOILERS	PFTA900 4G	40.000		38.835	4	PAINT BOILERS
	NP-1	11.250	6.8	10.922	3	PRIMER SURFACE
OLD PAINT		10.385	9.5	10.082	1	ACRYLIC BOOTH
OLD PAINT		10.275	9.4	9.975	4	PRIME BOOTH
	NP-1	10.000	7.5	9.709	2	FASCIA BOOTH
OLD PAINT		9.890	9.0	9.602	1	GEN VENT
OLD PAINT		9.670	8.8	9.389	1	GEN VENT
OLD PAINT		9.670	8.8	9.389	2	THIRD LACQ
GAMEWELL	NP-1	9.180	8.5	8.913	2	FINAL PAINT
	NP-1	9.000	7.8	8.738	2	FASCIA BOOTH
STRAND	62	9.000		8.738	1	GEN VENT
OLD PAINT		8.868	8.1	8.610	6	FIRST LACQ
STRAND		8.800		8.544	1	GEN VENT
OLD PAINT		8.242	7.5	8.002	1	GEN VENT
OLD PAINT		8.066	7.3	7.831	3	SECOND LACQ
OLD PAINT		8.066	7.3	7.831	3	INT COLOR
GAMEWELL	NP-1	8.039	7.4	7.805	1	FINAL LINE
	500 MF-SG	3.846	3.5	3.734	6	PRIMER SURFACE
STRAND	62	7.500	"	7.282	1	GEN VENT

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

PERMIT NO.
3711-044-11453

Allowable Emissions

1. The Permittee shall burn only low NO_x emitting fuels - natural gas and propane-air mixture, in all combustion sources.

2. The Permittee shall perform annual tune-ups for combustion sources with maximum heat inputs of 20 MM BTU/hr or greater. The annual tune-ups shall be performed using the manufacturer's recommended setting for reduced NO_x or a NO_x analyzer so that NO_x emissions are minimized.

3. The Permittee shall maintain a preventive maintenance program to check burner adjustments to insure maximum fuel efficiency.

Notification, Reporting and Recordkeeping

4. Within 90 days of issuance of this Permit, the Permittee shall submit to the Division for approval a description and schedule of any tuning methods and adjustments to be made to the boilers to reduce the emission of NO_x.

5. The Permittee shall maintain records of all tune-ups, maintenance and adjustments made to fuel burning equipment with maximum heat inputs of 20 MM BTU/hr or greater. These records shall include burner settings and how the settings were determined.

6. All documents and calculations used to determine reduced NO_x boiler settings should be kept as part of the tune-up, maintenance and adjustments records. These records shall be kept available for inspection or submittal for two years from the date of record.

~~7. The Permittee shall demonstrate full compliance with the provisions of this Permit and Rule 391-3-1-.02(2)(yy) before July 31, 1995.~~

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit Number
2077-058-11226

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit Number 2077-058-11226 issued on July 2, 1993, to:

Georgia Proteins Company
4990 Leland Drive, Cumming, Georgia 30131

Facility location:
4990 Leland Drive, Cumming, Georgia 30131 (Forsyth County)

for the following:
The operation of a rendering plant and associated air pollution control equipment, including a bio-filter for odor control.

is hereby amended as follows:
To incorporate NO_x RACT limits for a feather dryer (SC 941) and the boilers (SC B01 through B06) into the Permit.

Reason for Amendment:
To incorporate the requirements of Georgia Air Quality Rule 391-3-1-.02(2)(yy) into the existing Permit.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit Number 2077-058-11226 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold F. Reheis
Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Amendment to
Permit No. 2077-058-11226

ATTACHMENT A

LIST OF FUEL BURNING EQUIPMENT

Source Code	Manufacturer	Year Built	National Board Number	Serial/ Contract Number	Capacity
B01	Queen City	1964	411	433	30,000 lbs/hr steam
B02	E. Keller Company	1970	4615	14921	30,000 lbs/hr steam
B03	Babcock & Wilcox	1971	23341	FM-202	60,000 lbs/hr steam
B04	Babcock & Wilcox	1978	24511	FM-2772	75,000 lbs/hr steam
B05	Babcock & Wilcox	1972	23717	FM-2197	60,000 lbs/hr steam
B06	Babcock & Wilcox	1975	24182	FM-2524	60,000 lbs/hr steam
941	Coen Daz	1994	-----	50D-12260-1	30 MMBtu/hr heat input

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Allowable Emissions

16. The Permittee shall not discharge or cause the discharge into the atmosphere from each fuel burning equipment listed in Attachment A (SC B01 through B06, and 941), any gases which contain NO_x emissions in excess of 0.1 lbs/10^6 BTU heat input to the equipment.

17. The Permittee shall not fire fuel oil in the fuel burning equipment listed in Attachment A (SC B01 through B06, and 941) during the months of May through September for production purposes; however, if necessary, the Permittee shall be allowed to burn fuel oil for tuning the burners and air to fuel ratios during this period.

Performance Testing

18. By July 31, 1995, the Permittee shall demonstrate compliance with the NO_x emission limit specified in Condition 16 by conducting a NO_x performance test on each fuel burning equipment specified in Attachment A (SC B01 through B06, and 941) and submitting a report of the results of the performance tests to the Division.

19. Should production rates increase above the rates at which the acceptable performance tests were made, the Division may require that the fuel burning equipment listed in Attachment A (SC B01 through B06, and 941) be tested for compliance at a higher production rate.

20. Performance test(s) shall be conducted and the data reduced in accordance with methods and procedures approved by the Division prior to such testing.

21. The Permittee shall provide the Division thirty (30) days prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.

22. The Permittee shall provide performance test ports which comply with criteria approved by the Division.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Notification, Reporting and Recordkeeping

23. The Permittee shall maintain records adequate and necessary to demonstrate compliance with Condition 17. For each period during the months of May through September where fuel oil is burned in the fuel burning equipment listed in Attachment A (SC B01 through B06, and 941), said record shall show the particular fuel burning equipment involved, the amount of fuel oil burned, the date and time of the burn, and the reason for the burn.

State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
3221-060-10576

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 3221-060-10576 issued on August 6, 1990 to:

Owens-Brockway Glass Container, Inc.
One Seagate, Toledo, Ohio 43666

Facility location: 3107 Sylvan Road
Atlanta, Georgia 30354
(Fulton County)

for the following: The construction and operation of a glass container manufacturing facility and associated air pollution control equipment. Process and air pollution control equipment are listed in Attachment A.

is hereby amended as follows: Authority granted to make modifications to Furnace E (Source Code E39) as described in Application No. 6588 dated March 16, 1994.

Reason for Amendment: To authorize the modification of equipment in accordance with permit application No. 6588 dated March 16, 1994. Additional information was received on June 27, 1994.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s), which page(s) are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 3221-060-10576 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 3221-060-10576

ATTACHMENT A

Owens-Brockway Glass Container, Inc.
Glass Container Manufacturing Facility
Atlanta, Georgia (Fulton County)

Process	Process Source Code	Control Equipment	Stack Source Code
Unloading Raw Materials	E01	----	----
Batch Department	E12	----	----
Glass Melting Furnace "A"	E33	----	U33
Glass Melting Furnace "B"	E35	----	U35
Glass Melting Furnace "D"	E37	----	U37
Glass Melting Furnace "E"	E39	----	U39
Surface Treatment Line A1	E52	D63	A63
Surface Treatment Line A2	E53	D63	A63
Surface Treatment Line A3	E54	D63	A63
Surface Treatment Line B1	E55	D63	A63
Surface Treatment Line B2	E56	D63	A63
Surface Treatment Line B3	E57	D63	A63
Surface Treatment Line B4	E58	D63	A63
Surface Treatment Line D1	E59	D64	A64
Surface Treatment Line E1	E60	D64	A64
Surface Treatment Line E2	E61	D64	A64
Surface Treatment Line E3	E62	D64	A64
Tin Baghouse "A & B"	----	D63	D63

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 3221-060-10576

ATTACHMENT A (Continued)

Process	Process Source Code	Control Equipment	Stack Source Code
Tin Baghouse "D & E"	----	D64	D64
WSL Line A1	E76	E33	U33
WSL Line A2	E77	E33	U33
WSL Line A3	E78	E33	U33
WSL Line B1	E79	E33	U33
WSL Line B3	E81	E39	U39
WSL Line D1	E83	E39	U39
WSL Line E1	E84	E39	U39
WSL Line E2	E85	E39	U39
WSL Line E3	E86	E39	U39
Offline WSL	E87	E33	U33
Degreasing	E88	----	U88
Corrugate Paper	E89	D89	A89
Plasti-Shield	E90	----	U90
Steam Boiler	E91	----	U91

Allowable Emissions

25. The Permittee shall comply with the provisions of Georgia Rule For Air Quality 391-3-1-.02(2)(yy) "Nitrous Oxide Emissions from Major Sources".

The Permittee shall not discharge or cause the discharge into the atmosphere from the glass melting furnace operations (Glass Melting Furnaces "A", "B", "D" and "E"; Source Codes E33, E35, E37 and E39, respectively) NO_x emissions in excess of 5.50 pounds per ton of glass produced. Compliance with Georgia Rule 391-3-1-.02(2)(yy) must be demonstrated by submittal of a report of performance testing as required by Condition No. 26 not later than July 31, 1995.

Performance Testing

26. Not later than July 1, 1995, but not before the modifications authorized by this Air Quality Permit Amendment have been completed, the Permittee shall conduct an emission test for nitrogen oxides on Stack Source Codes U33, U35, U37 and U39. The results of the performance test(s) shall be submitted to the Division within 30 days of the completion of testing.

27. Within 180 days after issuance of this Amendment to Air Quality Permit No. 3221-060-10576 but not before the modifications authorized by this Air Quality Permit Amendment have been completed, the Permittee shall conduct an emission test for total VOCs, Hydrogen Chloride, and Particulate Matter on Stack Source Code U39. All WSL Lines which vent through Furnace "E" (Source Code E39) must be operating at the time of the performance test. This includes Source Codes E81, E83, E84, E85 and E86. The results of the performance test(s) shall be submitted to the Division within 30 days of the completion of testing.

28. The permittee shall use natural gas and/or propane exclusively to fire all burners operated at the facility except during periods when natural gas is curtailed, or during performance testing of the burners. The permittee may use No. 2 fuel oil to fire the burners during either of the above specified cases.

State of Georgia
Department of Natural Resources
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AMENDMENT TO AIR QUALITY PERMIT

Amendment To Permit No.
3296-060-10079

Effective Date Of Amendment
NOV 15 1994

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 3296-060-10079 issued on January 24, 1989, to:

OWENS-CORNING FIBERGLAS CORPORATION
7000 McLarin RD., Fairburn, Georgia 30213-2800

Facility location: 7000 McLarin RD.
Fairburn, Georgia 30213

for the following: The constriction and operation of a fiberglass insulation manufacturing facility including lines FG-1, FG-2, FG-3 and associated air pollution control equipment.

is hereby amended as follows: A nitrogen oxide (NO_x) emission limit is set for the electric glass melting furnaces (source codes G11, G21 and G31), and all burners will be required to have proper maintenance that minimizes NO_x emissions. These requirements will insure that the facility is operated in a manner which is consistent with RACT (Reasonably Available Control Technology).

Reason for Amendment: Application 6808 dated August 3, 1994.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 2 pages, which pages are part of this Amendment.

This Permit Amendment is effective from the date first above written and is hereby made a part of Permit No. 3296-060-10079 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.

Harold F. Reheis

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

AMENDMENT TO
PERMIT NO. 3296-060-10079

Allowable Emissions

25. The Permittee shall not discharge or cause the discharge into the atmosphere from the glass melting electric furnaces (source codes G11, G21 and G31) nitrogen oxide (NO_x) emissions in excess of 13.5 pounds per ton of glass pulled.

Process and Control Equipment

26. The Permittee shall maintain all burners as listed in Table 1 in a manner which minimizes NO_x emissions. This includes the use of reasonably available low NO_x burner replacements when replacement is necessary for maintenance purposes. Maintenance and replacement records shall be recorded in a permanent form suitable and available for inspection by the Division. The records shall be retained for at least two years following the date of such maintenance and/or replacement record.

SOURCE	SOURCE CODES	DESCRIPTION
Electric Glass Melting Furnaces	G11 G21 G31	Customized burners are used during startup, shutdown and malfunction of the Electric Glass Melting Furnaces.
Forehearths	G12 G22 G32	Customized burners are used to maintain the temperature of the molten glass prior to fiberizing.
Forming	G12 G22 G32	Customized burners are used to maintains glass temperature and aid the fiberizing of the molten glass.
Curing	G13 G23 G33	Low NO_x Burners are used to cure the organic binder.

Table 1. A summary of all burner type combustion sources used for processing wool fiberglass at Owens-Corning Fiberglas Fairburn Plant.

27. The Permittee shall use natural gas and/or propane to fire all burners except during periods which natural gas is curtailed or during testing of the burners in which case the Permittee may use No. 2 fuel to fire the burners.

Notification, Reporting and Recordkeeping

28. The Permittee shall maintain a log to demonstrate compliance with the 13.5 pound of NO_x per ton of glass pulled limit for the glass melting electric furnaces (source code G11, G21 and G31) by keeping the following records for two years after the date of record:

    a. The pounds of sodium nitrate ($NaNO_3$) used each day.

    b. The pounds of NO_x produced each day. This shall be calculated by multiplying the pounds of sodium nitrate used each day by 0.541.

    c. The tons of glass pulled each day.

    d. The pound of NO_x per ton of glass pulled each day. This shall be calculated by dividing the pounds of NO_x produced each day by the ton of glass pulled each day.

29. The Permittee shall retain records of burner operations for two years after the date and year of record. The records shall be available for inspection and submittal to the Division upon request and contain:

    a. Natural gas usage in units of standard cubic feet (scf) for each day.

    b. Propane usage in units of gallons (gal) for each day.

    c. No. 2 fuel oil usage in units of gallons (gal) for each day.

    d. Analysis of the No. 2 fuel oil burned. The analyses shall include the properties of heating value, sulfur content, and/or other properties specified by the Division. Fuel sampling and analysis frequency and methods shall be approved by the Division.